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# CANADA DEPARTMENT OF ENERGY, MINES AND RESOURCES

GEOLOGICAL SURVEY OF CANADA

# CATALOGUE OF SCIENTIFIC PROJECTS 1986 - 1987



# **GEOLOGICAL SURVEY OF CANADA**

**CATALOGUE OF SCIENTIFIC PROJECTS** 

1986-87

Compiled by M.A. Petre

OTTAWA 1986

#### **PREFACE**

A merger of the Geological Survey of Canada with the Earth Physics Branch of EMR took effect on 1 April 1986.

This catalogue of all scientific projects of the Geological Survey of Canada approved as of August 1986 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, 1986 to 31 March, 1987, and 2) the field program for the summer of 1986.

As a catalogue it lists and briefly describes all scientific projects. These total 582 (17 inactive) and are compiled mainly from project annual instructions (GSC 229). Where aspects of the merger had not been completed, information on former EPB projects was derived from available sources (these projects can be found in the Addendum on page 150). Thus the catalogue 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: a) in groups reflecting the program activity structure; and b) in numerical order with an index by project leader and by province 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 1986 comprises the field component of those active projects marked by an asterisk after the project number. These total 250. 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 1986

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#### GEOLOGICAL SURVEY OF CANADA

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# DEPARTMENT OF ENERGY, MINES AND RESOURCES PROGRAM ACTIVITY STRUCTURE

# 1. ADMINISTRATION PROGRAM

#### **ACTIVITIES**

#### SUB-ACTIVITIES

#### 2. ENERGY PROGRAM

## 3. MINERAL & EARTH SCIENCES PROGRAM

- . 1 Mineral Industry Development
- .2 Administration of the Canada **Explosives Act**
- .3 Mineral and Energy Technology
- .4 Remote Sensing
- .5 Geological Surveys
- .1 Cordilleran and Pacific Margin
  - .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
  - Sedimentary Geology Information .5
  - .6 Petroleum Resources Appraisal Secretariat
  - .0 General
- .3 Lithosphere and Canadian Shield
  - .1 Precambrian Regional Geology
  - Precambrian Laboratory Geology
  - .3 Lithosphere Geophysics
  - .0 General
- .4 Atlantic Geoscience
  - .l Atlantic Regional Geology
  - 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 Geophysics
  - .1 Seismology

  - .3 Geomagnetism
  - .4 Gravity
  - .5 Geodynamics
  - Activity Management and Support
  - Aeromagnetic Program
- .7 Mineral Resources
  - .1 Economic Geology
  - .2 Mineralogy and Chemistry
  - **Exploration Geophysics**
  - **Exploration Geochemistry** .4
  - .0 General
- .8 Geoscience Information
- .9 Activity Management & Support

- .7 Polar Continental Shelf
- Surveying and Mapping .8
- .9 Program Management and Support

#### LIST OF ABBREVIATIONS USED

#### DIRECTOR GENERAL'S OFFICE - DGO

Special Projects

#### ATLANTIC GEOSCIENCE CENTRE - AGC

EPG -Eastern Petroleum Geology Subdivision

CG -Coal Geology

LBG -Labrador-Baffin Group PBG -Paleozoic Basin Group

**SGBM** -Scotian Grand Banks Margin Group

Environmental Marine Geology Subdivision EMG -

G -Geochemistry p -Paleoecology

-Sedimentary Geology SG

Regional Reconnaissance Subdivision RR

-Eastern Arctic Offshore Geology **EAOG** 

-Geophysical Surveys **GPS** OBM -Ocean Basins and Margins -Surficial and Bedrock Geology SBG

PS Program Support Subdivision

#### CORDILLERAN AND PACIFIC MARGIN - CPM

CMG -Cordilleran Mainland Geology

PMG -Pacific Margin Geology

#### MINERAL RESOURCES DIVISION - MR

Mineral Deposits Subdivision MD

> MAG -Mathematical Applications in Geology

-Mineral Deposits Geology MDG

-Mineral Resource Information Services **MRIS** 

-Regional Metallogenic Studies **RMS** 

-Regional Mineral Resource Assessment RMRA

Mineralogy & Chemistry Subdivision MC

-Analytical Chemistry AC

MIN -Mineralogy

-Exploration Geophysics **EGp** 

-Exploration Geochemistry **EGc** 

#### INSTITUTE OF SEDIMENTARY AND PETROLEUM GEOLOGY - ISPG

CG Coal Geology Subdivision

CG -Coal Geology CT -Coal Technology

-Resource Evaluation RE

PG Petroleum Geology Subdivision

> GC -Geochemistry

-Petroleum Resources PR

P Paleontology Subdivision

-Macropaleontology MaP

-Micropaleontology MiP

-Ottawa Paleontology OP

RG Regional Geology Subdivision

-Arctic Islands ΑI

**CTS** -Curation and Technical Services

M -Mainland

Petroleum Resource Appraisal Secretariat PRAS -

### LITHOSPHERE AND CANADIAN SHIELD DIVISION - LCS

BS -Bear Slave

-Geochronology

LG -Lithosphere Geophysics

-Northern Churchill NC

-Petrology PET PMag -Paleomagnetic SG -Superior Grenville

-Special Projects SP

#### GEOPHYSICS DIVISION - G

G

GGD -Gravity & Geodynamics Subdivision

GD -Geodynamics

G -Gravity

Aeromagnetics Program Subdivison A

**GDP** -Geophysical Data Processing EAO -Experimental Airborne Operations

OA -Ocean Aeromagnetics -Contract Surveys CS

Seismology & Geomagnetism Subdivision SG

GI -Geophysical Instrumentation

-Seismology S

Ğ -Geomagnetic

#### TERRAIN SCIENCES DIVISION - TS

Quaternary Geology Subdivision OG

WR -Western Region NR -Northern Region ER -Eastern Region -Geochronology G

MEM -Mineral Exploration Methods

Quaternary Environments Subdivision **QE** 

> PEc -Paleoecology -Glaciology GI

TD Terrain Dynamics Subdivision

-Geomorphic Processes and Engineering **GPEG** 

Geology

-Terrain Geophysics TG PR -Permafrost Research

SR Sedimentary Research

Project Number		Title	Project Leader	Div.	Subdiv.	Sec.	Prov.	
Cordillera	an and	Pacific Margin Division						
630016*	Coast	: Mountains project	Roddick, JA	С	_	CMG	BC	
(3511)		a scale of 1 inch equals 4 miles	the Coast Mountains between The investigation is expected and to develop an understand belts.	to reveal	the main ev	ents in the	geological history	
	NTS:	<u>92</u> F,G,H, <u>J</u> ,K,L,M,N; 93 D; 102	P; 103 A,G, I W½, J,N,P, W½					
700047*	Opera	ition Finlay	Gabrielse, H	С	-	CMG	ВС	
(3511)		To establish the stratigraphy, as an aid to regional developme	structure and geological framevent.	work to w	hich the mi	neral depos	its may be related	
	NTS:	94 C,E,F						
730035	Opera	ation St. Elias	Campbell, RB	С	ents.	CMG	Yk BC	
(3511)		To determine the stratigraphy, assess the mineral potential of	structure, metamorphism, and the area.	relations	nip of intrus	ive and vol	canic rocks, and to	
	NTS:	114 P,O; 115 A-C,F,G						
730037 (3511)	metal	graphy, structure, and logeny of Pelly Mountains, ukon Plateau, Yukon Territory	Tempelman-Kluit, DJ	С	-	CMG	Yk	
		To provide information on the deposits in Pelly Mountains and	e relationship between stratigr adjacent Yukon Plateau.	aphy, str	ucture, sedi	mentary f	acies, and mineral	
	NTS:	105 A,F,G,H						
730067* (3511)	Geoth in Ca	nermal Energy Resources nada	Souther, JG	С	-	CMG	<u>BC</u>	
	Obj: To make an inventory of the distribution, nature and geological setting of hot springs in Canada and the chemistry of their waters. To provide a base of geological information and expertise for geothermal results.							
	NTS:	92 J						
750035* (3511)	Meso:	ratigraphic study of zoic rocks in the Inter- ane and Insular Belts of anadian Cordillera	Tipper, HW	С	-	CMG	<u>BC</u> Yk	
			phic succession of the Mesozography in the evolution of the M			ly Jurassi	c, and to define a	
	NTS:	92 H,L; 93 E; 94 D; 103 C,F,G;	104 H-K, M,N; 105; 115					
770001* (3511)		of the Cenozoic tion of the Western Cordillera	Souther, JG	С	-	CMG	BC Yk	
			view of existing data on the Cer ected areas where additional					
		<ol> <li>To publish a series of topic evolution of the Cordillera.</li> </ol>	cal papers based on selected fi	ield studie	es leading to	a synthes	sis of the Cenozoic	
	NTS:	Pts of 82; 92; 93; 103; 94; 104;	95; 105; 115 A-C; 106; 116; 117	; 114 O,P				
770016* (3511)	Opera	ation Dease	Gabrielse, H	С	-	CMG	BC	
(3311)	·	Spatzizi. 2. To publish reports of field a	ne 1:250,000 geological mapping activities and papers on specific final map and memoir on Cry L	aspects o	f the geolog	y of the re	gion.	
	NTS:	104 G,H,I,J,O						

<sup>\*</sup> in first column indicates project has a field component
- in first column indicates project is inactive
() bracketed number in first column indicates departmental classification
Brackets indicate seasonal employee or other non-staff
Underscoring indicates province of 1985-86 field work

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
770017 (3511)	Stratigraphy, structure and metallogeny of the northern part of the Intermontane Belt (Whitehorse trough) in the Canadian Cordillera	Tempelman-Kluit, DJ	С	-	CMG	Yk		
	Obj: To provide data on, and extend sedimentary facies and mineral depos					graphy, structure,		
	NTS: 105 C,E,L; 115 I							
770020	Kemano Project	Woodsworth, GJ	С	-	CMG	ВС		
(3511)	Obj: To produce a report and geological more 1:50,000 maps of the most critical		2) map-ar	rea, on a sc	ale of 1:25	50,000, with one or		
	NTS: 93 E							
780028 (3511)	Detailed Geological study of selected areas within the Foothills and Rocky Mountain Belts of the Monkman Pass map area — with emphasis on the structure	Thompson, RI	С	-	CMG	BC Alta		
	Obj: To map at 1:50,000 scale: map sheed as a data base for the preparation of				areas 93 H	/16 and 83 E/13W ½		
	NTS: 93 H,I; 83 E							
790007 (3511)	Geology of Nahanni map-area, Yukon and Northwest Territories	Gordey, SP	С	-	CMG	Yk Mack		
	Obj: To update geological mapping in Nahanni map-area with emphasis on the distribution of stratigraphic units of the economically important Road River Formation and Earn Group.							
	NTS: 105 I							
790030	Geology of Nelson Map-area E/2	Reesor, JE	С	-	CMG	ВС		
(3511)	<ul> <li>Obj: 1. To update the geology of Nelson area to current requirements embodying new field work and scattered studies done since the original work in the late 1930's.</li> <li>2. To provide a 1:250,000 synthesis of stratigraphy, structure, metamorphism and mineral deposit potential.</li> </ul>							
	NTS: 82 F, E½							
790041*	Lardeau map-area, B.C.	Wheeler, JO	С	-	CMG	BC		
(3511)	Obj: To complete terminal report and related geological, structural and mineral deposits maps and structure sections for publication at 1:250,000 scale.							
	NTS: <u>82 K,M,N</u>							
800022* (3511)	Stratigraphy and structure of Dawson, Larsen Creek and Nash Creek map areas	Thompson, RI	С	-	CMG	Yk		
	Obj: To update the 1:250,000 geologic stratigraphic and structural analysis Cordillera.							
	NTS: 116 A,B,C; 106 D							
800028* (3511)	Eastern Margin of the Coast Plutonic Complex	Woodsworth, GJ	С	~	CMG	BC		
	Obj: 1. To examine the stratigraphy, so correlate metamorphic rocks wit 2. To produce reports and geologic (103 O) map-areas.	h unmetamorphosed rocks t	o the eas	it.				
	NTS: <u>92</u> J, <u>N</u> ; 93 D; <u>103 H</u> ,I,J,P							
800029* (3511)	Geology of the Ashcroft and Hope map-areas	Monger, JWH	С	-	CMG	<u>BC</u>		
	Obj: To produce Geological maps of Ashc	roft (92 I) and Hope (92 H) i	map-area	ıs.				
	NTS: <u>92</u> I, <u>H</u>							

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
810028* (3511)	Conodont biostratigraphy and biogeography in the Canadian Cordillera	Orchard, MJ	С	-	CMG	BC Yk
	Obj: To collect and document conodont framework for the interpretation of C			provide a	nd refine	a biostratigraphic
810029 (3511)	Micropaleontological analysis of referred samples	Orchard, MJ	С	CMG	-	BC Yk
	Obj: To provide microfossil-based relative problems.	e ages to Cordilleran geo	ologists fo	or their use	in the sol	ution of geological
820014* (3511)	Stratigraphy and tectonics of the western margin of the southern Omineca Belt	Struik, LC	С	-	CMG	<u>BC</u>
	Obj: To determine the stratigraphy, age a and therefrom determine the stratigr Belt. To determine the relationship Snowshoe Formation and the correlat	aphic and structural histor of the contact of Quesnel	y of the Terrane	western ma with easteri	rgin of the n rocks wh	southern Omineca
	NTS: <u>93 A,H</u> ,G;	0				
820015* (3511)	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 ur River (105 K) map areas. Available p An attempt will be made to extend areas.	preliminary edition geologi	ic maps l	ack details	useful in n	nineral exploration.
	NTS: 105 J,K,L,P					
820016* (3511)	Geology of Skagway (104 M) map-area, British Columbia	Dodds, CJ	С	-	CMG	<u>BC</u>
	Obj: To update geological mapping in Skag	way (formerly Bennett) m	ap-area.			
	NTS: <u>104 M</u>					
830020* (3511)	Penticton map area 82 E	Tempelman-Kluit, DJ	С	-	CMG	<u>BC</u>
(3311)	Obj: To study and map the geology of Per progress reports and oral summaries a		roduce a	comprehens	ive report	of the results, with
	NTS: <u>82 E</u>					
830021 (3511)	The Cordilleran Orogen: Canadian Sector	Gabrielse, H	С	-	CMG	-
	Obj: To produce a volume on the geolog structure, evolution, geophysical sign will be one of 10 volumes on the ge project sponsored by the Geological Minerals of Canada, 6th edition.	nature, mineral deposits ar ology of Canada as part o	nd geolog of the Dec	y related en cade of Nor	nergy reso th America	urces. The volume an Geology (DNAG)
840046* (3511)	Geology of the Iskut River — Telegraph Creek, British Columbia	Anderson, RG	С	-	CMG	<u>BC</u>
	Obj: To update geological mapping and plutonism and structure and to provid stratigraphy defined to the east and s	le details useful in minera	l explora	tion. An at	nentary st tempt will	ratigraphy, granite be made to extend
	NTS: <u>104 A,B</u> ,C,F, <u>G</u>					
860022* (3511)	Geoarchitecture of the Fraser River Delta Area – Phase 1	Luthernauer, JL	С	MG	-	ВС
	Obj: Define the framework geology, strat damage of the Fraser River Delta are		, paleo-ge	eography an	d susceptil	bility of earthquake
	NTS: 92 G					

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
860028* (3511)	Global Geoscience Transects Project of International Lithosphere Program	Monger, JWH	С	-	-	-		
	Obj: To coordinate production of different parts of world, scales		ransects, or	cross-sec	tions draw	n to the Moho, in		
500029 (3522) (3512) (3543)	Identification and biostrati- graphic interpretation of referred fossils	Norford, BS	ISPG C AGC	P MG EPG	-	NS Nfld NB Yk Mack BC Alta Pacific Offshore		
	Obj: By the study of fossils collecte and the general public, to provi of geological events. To descr and biostratigraphy of Canada.	de identifications and ages vi-	tal to correla	ation of the	e host rock	s and to the dating		
	NTS: 95 B,C; 12 D; 103 G; 82 E,K; 83	C; 93 I						
690075* (3512)	Foraminiferal Biostratigraphy of the Pacific Margin	Cameron, BEB	С	-	PMG	ВС		
	Obj: 1. To prepare publications of Foraminifera of the onshore 2. To prepare publications on the state of the onshore the	and offshore rocks of the Pa	cific Margin	,				
	NTS: 92 B; <u>103 F,G</u>							
740062	Fraser Delta sedimentation	Luternauer, JL	С	-	PMG	ВС		
(3512)	Obj: To provide a geological/sedimentological knowledge base about the active delta of the Fraser River for general land and waterfront planning and environmental management.							
	NTS: 92 G							
750108* (3512)	Marine surficial geology and sedimentation, British Columbia	Bornhold, BD	С	-	PMG	<u>BC</u>		
	Obj: In order to provide the sedime landmass description:  1. map, describe and explain i of the Pacific continental sl  2. determine the composition, the marine waters off the B	in a systematic manner the p nelf, slope, deep sea, straits, distribution, transport med	hysiography, and fiords of	surficial of British Co	leposits, pr lumbia;	rocesses and history		
	NTS: 92 K; 103 A,B,F,G,J,K							
770006* (3512)	The Canadian Pacific Continental Margin	Yorath, CJ	С	-	PMG	<u>BC</u>		
	Obj: To describe the geological a including the Insular Belt and a the region.							
	NTS: 92 C,D,E,L; 102 H,I,O,P; <u>103</u> B	<u>,C,F</u> ,K						
790006* (3512)	Marine Delta Sedimentation, British Columbia	Luternauer, JL	С	-	PMG	<u>BC</u>		
	Obj: To provide geological/sediment and waterfront planning and en		systems in o	coastal Bri	tish Colum	bia for general land		
	NTS: <u>92 B,C</u> ,G; 103 G,H,I,J							
800010 (3512)	Marine magnetic surveys	Currie, RG	С	-	MG	Pacific Offshore		
	Obj: To measure and interpret the facilitate a reconstruction of the							
820017* (3512)	The Geology of the Strait of Georgia	Hamilton, TS	С	-	PMG	ВС		
	Obj: To examine and describe th sedimentology. To determine constituent basins particularly in the Strait of Georgia as they	the relative importance of with respect to the late Cer	glaciomarine lozoic. To de	e and tect etermine th	onic proce ne tectonic	esses in shaping the esequence of events		
	NTS: 92 B,F,G,K							

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
820018 (3512)	Volcanic Rocks of the Insular Belt and Adjacent Deep Ocean	Hamilton, TS	С	-	PMG	ВС
	Obj: To examine the volcanic sequences of physical forms and depositional/ext mineralogy, geochemistry, petrology of each of the various volcanic units.  NTS: 103 B,C,F,G,I,K; 92 B,C,E,F,K,L; 102	rusive modes, age relation and genesis. To interpret and their roles in the tector	onships w the geolo	rith adjacer gic signific	nt formati ance and e	ons, petrography, conomic potential
840033* (3512)	Potential geologic hazards to development – seafloor and shallow subbottom of Queen Charlotte Sound, B.C.	Luternauer, JL	С	~	PMG	Pacific Offshore
	Obj: Identify, describe and map sediments and shallow subbottom (down to exploration and production on the QuiNTS: 102 I,O,P	500 m below the seabed)	which co	uld affect		
T4i4-4-	of Sodin and make James Cooleans Divi	-:				
650003*	of Sedimentary and Petroleum Geology Divi Geology of Cornwallis and	Thorsteinsson, R	ISPG	RG	AI	Frank
(3521)	adjacent smaller islands					
	Obj: 1. To improve the understanding of with a view of helping.			-		
	<ol><li>Assess the size, grade, mode of o occur.</li></ol>					
	<ol> <li>Improve the knowledge and und Cornwallis Island, thus aiding in and thereby contributing to (1).</li> </ol>					
	NTS: <u>58 F,G; 68 E,H; 59 B</u>					
680064* (3521)	Stratigraphy and Paleontology of Upper Paleozoic rocks on parts of Ellesmere, Melville and Axel Heiberg Islands	Nassichuk, WW	ISPG	P	MaP	Frank
	Obj: 1. To improve the understanding of Sverdrup Basin; 2. to establish a biostratigraphic fra 3. to evaluate the economic potential	mework for Carboniferous	·			axial parts of the
	NTS: 49 B,C,F,G,H; 340 A,B,C,D; 560 A; 7					
700027 (3521)	Comparative studies of structural prototypes and/or sedimentary environments	Cook, DG	ISPG	RG	-	-
	Obj: The objective is to familiarize the conceptual models of depositional en and to critically evaluate the models	vironments to enable the p				
710033 (3521)	Northern Basin Analysis Program: Redstone and Great Slave Lake map-areas	Williams, GK	ISPG	PG	PR	Mack
	Obj: 1. To maintain an up-to-date inver lithologic logs within the Great St. 2. To provide an improved understar 3. To compile, in a form suitable accumulated.	ave Lake and Redstone Manding of the geological histo	p-areas. ory of the	northern C	anadian ma	ainland.
	NTS: 85; 95					
720098 (3521)	Lower Paleozoic stratigraphy, southern Rocky Mountains	Aitken, JD	ISPG	RG	M	BC Alta
	Obj: To determine the nature, thickness,	distribution and origin of Lo	wer Pale	ozoic forma	tions of th	e region.
	NTS: 82; 83					

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
730051 (3521)	Completion of reconnaissance geology, northern Ellesmere Island	Trettin, HP	ISPG	RG	AI	Frank
	Obj: To prepare terminal reports accomp compile the Eureka sound sheet (NTS					
	NTS: 340 A-F,H; 120 B,C,F,G; 49 H; 560 D	,E,F,G,H				
730057 (3521)	Helikian and Hadrynian stratigraphy Eastern Cordillera and Interior Platform	Aitken, JD	ISPG	RG	M	Mack Yk
	Obj: Firstly, to establish a coherent pict and secondly, to emphasize study of deposits.					
	NTS: 95 L,M; 106 A,B,C,F,G,H; 105 P					
750083 (3521)	Mesozoic stratigraphy and Basin analysis of Sverdrup Basin, Arctic Archipelago	Embry, AF	ISPG	RG	AI	Frank
	Obj: 1. To determine regional stratigraph 2. To determine environments of dep 3. To determine the geologic history 4. To assess the economic potential	position of the strata. To of the Sverdrup Basin dur				
	NTS: 29; 39; <u>49 E-H;</u> <u>59 H</u> ; 69; 79; 87; 99;	120; <u>340 B,C</u> ; <u>560 A</u>				
760062* (3521)	Geology of bedded phosphates deposits in Canada	Christie, RL	ISPG	RG	AI	BC Alta
	Obj: To identify Canadian phosphate reso patterns and occurrences, association			ing of the r	egional ge	eology relationships:
	NTS: <u>82</u>					
780039* (3521)	Jurassic and Cretaceous Minnes Group, Alberta and British Columbia	Stott, DF	ISPG	RG	M	Alta BC
	Obj: To describe the stratigraphic success correlation of these strata, their listuitability as reservoirs for those fue	ateral variation, their po	ocument tentialitie	fossil flora es as sourc	and fauna es of oil	; to provide data on and gas, and their
	NTS: 83 E,L; <u>93</u> I, <u>O</u> ,P; <u>94 B</u> ,G,J					
790031 (3521)	Geology of the Beaufort Mackenzie Basin	Dixon, J	ISPG	RG	M	Mack Frank Yk
	Obj: 1. To integrate all available geolog the Beaufort-Mackenzie Basin, appreciation of the petroleum po: 2. Undertake detailed stratigraphic Cretaceous and Tertiary in order 3. To do detailed correlations of stratigraphic framework and do s	in order to develop a stential.  ; sedimentological and peto understand reservoir characteristics.	stratigrap etrograph naracter a er Jurass	hic-sedimer ic analysis nd distribut	of selecterion.	framework and an ed zones within the
	NTS: 97 F,H; 107 B,H; 117;					
790038* (3521)	B.C. and west-central Alberta	Geldsetzer, HHJ	ISPG	RG	M	BC Alta
	Obj: To establish and apply conceptual repaleogeography, their subsequent dia	nodels of deposition of the genesis and correlation.	ne origina	l sediments	in terms	of environment and
	NTS: <u>83 C</u> ; <u>84 E</u> ,L; 93 H,I;					
800031 (3521)	Geological reconnaissance, southeastern margin of Franklinian Geosyncline	Christie, RL	ISPG	RG	AI	Frank
	Obj: To improve understanding of the se late Precambrian to lower Paleozo Silurian events along the platform Geosyncline.	oic stratigraphy; to provi	de better	understan	ding of la	ate Precambrian to

Project	777.41	Project	D.	C. J. P.	6	D.
Number	Title	Leader	Div.	Subdiv.	Sec.	Prov.
810010 (3521)	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
			corner) and se for the	l in conjunc preparation	tion with of struc	R.I. Thompson parts
	NTS: 93 H(NE), I(SE), O/11-14; 83 E(N	W), L(SW)				
810011* (3521)	Carboniferous stratigraphy and sedimentology of east central British Columbia and west central Alb	Richards, BC	ISPG	RG	M	BC Alta
	Obj: 1. Revision of the stratigraphic 2. To solve subsurface and surfa 3. To determine the characteriand outcrop belt. 4. To summarize region's Carbo 5. Evaluation of hydrocarbon po	ace stratigraphic problems. istics, distributions, and deponiferous depositional and tect	sitional er	vironments		
	NTS: 83 E,F,G,L,K,J,M,N,O; 93 I,J,O,J	<u>P;</u> 94 A,B,G,H,I,J,K,N,O,P; <u>82</u>	0, <u>J</u>			
810012 (3521)	Structural and stratigraphic studies of Northeast British Columbia	Taylor, GC	ISPG	PRAS	-	ВС
	Obj: To provide a synthesis of the go stratigraphic record.	eology of the northern Rocky	Mountains	in terms of	f the tect	conic response of the
	NTS: 93 I,O,P; 94 F,G,J,N,O					
810013 (3521)	Syntheses of Mesozoic and Cenozoic rocks of Eastern Cordillera and Plains	Stott, DF	ISPG	RG	М	Man Sask Mack Alta BC Yk
	Obj: To provide regional syntheses, in Mesozoic clastic sequences in W		s concerni	ng sediment	ary seque	ences, particularly of
810017 (3521)	Middle and Upper Devonian rocks in the subsurface of west-central Alberta	Meijer-Drees, NC	ISPG	RG	M	Alta
	Obj: To establish the depositional e diagenesis for the purpose of co Middle and Upper Devonian sedio	rrelating the depositional fram	mework (se	edimentolog	gical histo	ory) with that of the
	NTS: 83 B,C,E-G,J-N					
820033 (3521)	Stratigraphy and Sedimentology of the Mannville Group, Southern Alberta	Banerj <b>ee</b> , I	ISPG	PG	PR	Alta Sask BC
	Obj: 1. Regional correlation of the L 2. Construction of a facies mod 3. Environmental reconstruction period.	el for the Mannville Group fro	om stratigr	aphic and s	edimento egional pa	logical data. aleogeography of the
	NTS: Pts 72; 73; 82; 83; 93					
840047 (3521)	Compilation of the geology of the Innuitian Region	Trettin, HP	ISPG	RG	AI	Frank
	Obj: To produce a comprehensive re American Geology) series.	port on the geology of the Ir	nnuitian re	gion as par	t of DNA	G (Decade of North
	NTS: 89 A; 120 C; 340 C,D					

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
840077 <b>*</b> (3521)	Structural geology and tectonic and stratigraphic analyses, northern Mainland and adjacent continental shelf	Lane, LS	ISPG	RG	AI	<u>Mack</u>
	Obj: Our greatest deficiency in underst: Delta lies in extremely limited stru 1. Determining the geometry, seq diapiric structures. 2. Establishing the basic structura and subjacent lithosphere from Canada Basin.	actural and tectonic synthe uential development, tem I geometry and seismostra	eses. This proporal and graphy of	roject will enetic rela the lower p	address th tionships o part of the	at deficiency by: of normal faults and e supracrustal wedge
	NTS: 106; 116; 107; 117					
840078 (3521)	Structure and stratigraphy of the Paleozoic-Mesozoic basins of Melville and adjacent Islands	Christie, RL	ISPG	RG	AI	Frank
	Obj: 1. To obtain an improved under: Sverdrup sedimentary basins in migration mechanisms, and enti 2. To derive improved models of tectonics.	n the Melville-Bathurst Is capment, of hydrocarbons.	slands regio	n, to bette	r underst	and the source and
	NTS: 78; 79; 88; 89; 98; 99					
840079* (3521)	Stratigraphy and structure of Arctic Continental Shelf	Embry, AF	ISPG	RG	AI	Frank
	Obj: - To determine the crustal struct - To determine the structural and - To evaluate the petroleum pote	l stratigraphic architectur		anerozoic si	accesion o	f the Shelf.
	NTS: 79 G,H; 89 E,F,G,H; 99 E,F,G,H; 56	60 B,C,D,E,F,G,H; 340 G,H	ł			
840081 (3521)	Upper Paleozoic stratigraphy, Melville Island	Nassichuk, WW	ISPG	-	-	Frank
	Obj: To compare upper Paleozoic subsu elsewhere in the Sverdrup Basin, in upper Paleozoic depositional, stra and reef development critical to an	cluding northern Ellesmer tigraphic framework for	e Island and the Sverdru	l Axel Heib	erg Island	, and to establish an
	NTS: 78 B,G; 88 H					
840082*	Geology of the Arctic Islands	Okulitch, AV	ISPG	RG	AI	Frank
(3521)	Obj: Compilation of bedrock geology m scale to provide regional and evalu assessment. These compilations w for planning purposes and large s volume.	ations of geologic knowled ill also be used to produce	ige of the A e regional n	rctic Island haps at 1:2,	s in conci: 000,000 ar	se form for resource and 1:5,000,000 scales
	NTS: <u>59 A,B; 57 F; 67 E</u>					
850031* (3521)	Lower Paleozoic stratigraphy and facies relationships in Wernecke, Ogilvie and Mackenzie Mountains	Morrow, DW	ISPG	RG	M	<u>Yk</u>
	Obi: To determine the spatial relation	ships of major lower Pale	eozoic shelf	and basina	l facies s	trata exposed in the

Obj: To determine the spatial relationships of major lower Paleozoic shelf and basinal facies strata exposed in the Wernecke and Ogilvie Mountains; to outline both their sedimentologic-tectonic setting and any post-depositional diagenetic changes that have affected them; to highlight regions that contain abrupt interfaces such as shelf-to-basin transitions or transitions between shelf margin shoal complexes and interior platformal lagoonal deposits that commonly influence diagenetic patterns and the emplacement of hydrocarbons and mineral deposits. To understand the evolution of the basin and the emplacement of hydrocarbons in this part of the Western Arctic.

NTS: 106 D; 116 A,H; 95

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
850032 (3521)	Stratigraphic and structural analysis of Late Paleozoic strata in the north- western District of Mackenzie and norther	Cecile, MP n Yukon	ISPG	RG	M	Yk
	Obj: Late Paleozoic rocks in the northern basin, the north part of which was d extension faults, this project combin in the western part of the basin to pr	leformed during Ellesmer nes mapping, stratigraphi	ian orogen c, paleonto	esis and ou ological and	t by nume d organic	erous strike-slip and geochemical studies
	NTS: 105; 106; 107; 116; 117					
850036 (3521)	Mesozoic Basin Analysis of Sverdrup Basin, Arctic Archipelago	Embry, AF	ISPG	RG	AI	Frank
	Obj: - To determine regional stratigraph - To determine environments of de - To determine the Mesozoic geolog - To evaluate the petroleum potent - To provide a logistics base for rel	position of the strata. gic history of the Sverdru ial of the basin.	p Basin.		rdrup Basi	in.
	NTS: 49 B,C,D,E,F,G; 59 B,C,D,E,F,G; 69;	79; 9 A,B,C,D; 340 B,C,I	o; 560 A,B,	D		
850037* (3521)	Stratigraphy and sedimentology of Jurassic-Cretaceous strata northern Cordillera	Dixon, J	ISPG	RG	M	<u>Yk</u>
	Obj: To evaluate the present stratigraph strata. To establish an understandin offshore Beaufort Sea.					
	NTS: <u>116</u> ; 117					
850038 (3521)	Stratigraphy and structure of northern Franklin Mountains and adjacent plains	Cook, DG	ISPG	RG	М	Mack
	Obj: To carry out stratigraphic and struct Coleville Hills in order to gain a bet basins, Phanerozoic depositional seq geometry and mechanism. To evalua	ter understanding of the uences and relationships	Proterozoi to tectonio	c framewo	rk underly and subse	ing the Phanerozoic quent deformational
	NTS: 86; 96; 97; 106					
850039* (3521)	Investigation of stratigraphy and tectonic development of lower Paleozoic Platform-Miogeocline margin zone	Mayr, U	ISPG	RG	AI	Frank
	Obj: - To describe and understand signi		ss changes	in terriger	nous and c	arbonate formations
	<ul> <li>in the lower Paleozoic platform N</li> <li>To describe and understand deform Peninsula.</li> </ul>	rmation related to inters	-			
	<ul> <li>To describe and understand Tert relationship, if any, to seafloor sp</li> </ul>		the Mack	inson Inlet	region an	d to interpret their
	NTS: <u>59 A,B</u> ; 69 A					
850040 (3521)	Structural, Tectonic and Stratigraphic analysis of the Arctic Islands	Stephenson, RA	ISPG	RG	AI	Frank
	Obj: To determine intermediate and dee refraction seismic techniques.	p structure of the arctic	archipela	go through	application	on of reflection and
	NTS: 49; 59; 69; 79; 89; 340; 560					
850048* (3521)	Geological Mapping in the Southern Canadian Rocky Mountains	McMechan, M	ISPG	RG	M	BC Alta
	Obj: To publish 1:250,000 scale maps with NTS: 82 J; 83 C	cross-sections for the So	uthern Car	nadian Rock	ky Mounta	ins.

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Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
860004 (3521)	Middle and Upper Devonian stratigraphy in the subsurface of west central Alberta and northeastern British Columbia	Meijer Drees, NC	ISPG	RG	М	Alta BC		
	Obj: 1. Establish stratigraphic framework 2. Correlate subsurface and surface 3. Better understanding of depositio 4. Evaluate the potential for hydroc	geology. nal history, sedimentology		enesis of the	e carbonate	es.		
	NTS: 83 M; 93 P; 94 A							
860006 (3521)	Structure and tectonics of Prince Patrick and adjacent islands	Harrison, JC	ISPG	RG	AI	Frank		
	Obj: 1. Production of 1:250,000 scale geological maps. 2. Structural and Tectonic analysis. 3. Assessment of hydrocarbon and mineral resource potential.							
	NTS: 89; 99							
860007* (3521)	Stratigraphic – Structural analysis of Proterozoic to Devonian rocks, northern Ellesmere and Axel Heiberg Island	Trettin, HP	ISPG	RG	AI	Frank		
	Obj: To improve our knowledge of geologi	cal history and economic n	nineral po	tential of t	he region.			
	NTS: 120 C,E,F,G; 340 B,C,D,E,F,G,H; 560	0 A,B,D						
860010* (3521)	Baumann Fiord (49C), Vendom Fiord (49D) and Strathcona Fiord (49E)	Thors teins son, R	ISPG	RG	AI	Frank		
	Obj: To produce 1:250,000 geological maps and geological report on the above map areas; and to conduct a detailed stratigraphic and sedimentological study of the Upper Ordovician to Lower Devonian transition from shelf type carbonates to deep-water basinal clastic sediments.							
	NTS: <u>49 C,D,E</u>							
500029 (3522) (3512) (3543)	Identification and biostrati- graphic interpretation of referred fossils	Norford, BS	ISPG C AGC	P MG EPG	-	NS Nfld NB Yk Mack BC Alta Pacific Offshore		
	Obj: By the study of fossils collected by and the general public, to provide ide of geological events. To describe in and biostratigraphy of Canada.	entifications and ages vital	to correl	ation of the	e host rock	s and to the dating		
	NTS: 95 B,C; 12 D; 103 G; 82 E,K; 83 C; 9	3 I						
610019* (3522)	Ordovician and Silurian Biostratigraphy of British Columbia, Alberta, Manitoba Yukon, Mackenzie & Franklin	Norford, BS	ISPG	P	MaP	Frank Mack Yk <u>BC</u> Alta		
	Obj: Establishment of sequence of biochr provide necessary time control for eand western Canada.							
	NTS: 36; 37; 47-49; 54; 57-59; 67-69; 82 J	; 83; 85; 94; 95; 96; 97; 104	I,P; 105	I; 106; 116,	117; 120; 3	340		
650024* (3522)	Cambrian biostratigraphy of the Canadian Cordillera	Fritz, WH	ISPG	P	OP	Mack Yk BC		
	Obj: To describe and assess biochronologicambrian strata.	cal significance of Cambr.	ian trilob	ites in orde	r to refine	methods for dating		
	NTS: 106 B; 94 C-F; 116 B,C; 82 G,K,N							
670576* (3522)	Canadian Triassic Ammonoidea and Bivalvia	Tozer, ET	ISPG	P	OP	Yk BC Alta Frank		
	Obj: To describe and assess biochronolo methods for dating Triassic rocks.	gical significance of Tria	ssic Amn	nonoidea ar	nd Bivalvia	in order to refine		

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NTS: 560; 59 G; 49 F

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
680093 (3522)	Upper Silurian and Devonian biostratigraphy western and northern Canada	Pedder, AEH	ISPG	P	MaP	Sask Man Alta BC Yk Frank Mack			
	Obj: Elucidation of the sequences of Upper Silurian and Devonian faunas, especially corals, of western and northern Canada so that correlations of strata of these ages can be achieved. Description and illustration of fossils that have, or are expected to have, biostratigraphic significance. Paleoecological and biogeographic analyses of species and other taxonomic categories that have different time ranges in different geographic realms and ecologies.								
	NTS: 88 A,B,D; 49 A,B; 59 A; 82 B; 84 J;	85 C							
680101 (3522)	Conodont biostratigraphy of Siluro-Devonian rocks of the Arctic Islands	Uyeno, TT	ISPG	P	MiP	Frank Kee			
	Obj: To set up conodont biostratigraphic framework for the Siluro-Devonian rocks of the Arctic Islands; to integrate this framework with zonations based on other fossil groups, such as graptolites, palynomorphs and brachiopods; to fix time lines in areas where strata undergo complex facies changes over relatively short distances. To determine the thermal maturity of the enclosing rocks with the use of conodonts.								
	NTS: 49; 57; 58; 59; 68; 69; 78; 89								
700034 <sup>-</sup> (3522)	Devonian biostratigraphy of the northern Yukon Territory and adjacent District of Mackenzie and Alberta	Norris, AW	ISPG	P	MaP	Yk Mack Alta			
	<ol> <li>Obj: 1. Delineation of facies distribution of Devonian rocks in northwestern Canada.</li> <li>Identifying and determining ranges of fossils for refining zonation and correlation with other areas.</li> <li>Determining distribution of faunal provinces and paleogeography of Devonian seas.</li> <li>Obtaining more information on the Upper Silurian/Lower Devonian, Lower/Middle and Middle/Upper Devonian boundaries in Canada.</li> </ol>								
	NTS: 116 (E 3/4); 117 (S½); 106 (W½); 74 M	/i; 84 P; 85 A,B,C,F,G							
710022* (3522)	Carboniferous and Permian biostratigraphy and coral faunas, western and northern Canada	Bamber, EW	ISPG	P	MaP	Frank Mack Yk <u>BC</u> <u>Alta</u>			
	Obj: Establishment of faunal sequence Alberta, British Columbia, Yukon, in surface and subsurface explorat document the above succession as organizations.	and District of Mackenzie ion of these areas. Descr	e, for use as iption of co	s a biostrat ral and oth	igraphic re er faunas :	eference succession from these areas to			
	NTS: 49; 59; 69; 78; 79; <u>82 G,H,J</u> ,M,N, <u>O</u> ;	83 B,C,D,E,F,G; 92 I; 93 I	,0; 94-95;	103-106; 11	5-117; 340	; 560			
710091* (3522)	Palynological studies of Mesozoic and Tertiary coal measures in western and northern Canada	Sweet, AR	ISPG	P	MiP	BC <u>Alta</u> Yk			
	Obj: To establish palyno-stratigraphic sedimentological and structural int Where applicable to correlate coal To describe and classify recovered	erpretations of coal basins seams by means of spore a	i. and pollen h	istograms.					
	NTS: <u>82</u> B,C, <u>G,H,I,J</u> ; 83 C,E,F; 106 E; 11	7 A; 104 H							
720044 <sup>-</sup> (3522)	Reconnaissance of Mesozoic Foraminifera of Arctic Islands CURRENTS INFORMATION:	Wall, JH tion, paleoecology and bio	ISPG chronologic	p al significa	MiP nce of Me	Frank sozoic Foraminifera			
	NOT AVAILABLE er to bet NTS: 49; 59 E,G,H; 69; 79; 88; 89; 98; 34	iter define Mesozoic subsu	rface and o	utcrop stra	tigraphy.				
720072 (3522)	Paleozoic ostracodes of Canada	Copeland, MJ	ISPG	P	OP	Ont Que NB NS Nfld			
	Obj: By means of microfaunas and non- the Paleozoic sedimentary basins o								
	NTS: 11 E,F,K; 12 B,E,L; 21 A,H,P; 22 A	,B,H; 30 L,M; 40 I,P							

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
740042 (3522)	GSC Workshop travel — Micropaleontology Section	McNeil, DH	ISPG	p	MiP				
	Obj: To exchange information on current projects and techniques relating to palynology, foraminifers and other microfossils, during workshops of GSC's specialists; to plan programs in these fields and generally improve communication between the specialists in different Divisions.								
750036 (3522)	Silurian and Devonian spores of Canada	McGregor, DC	ISPG	P	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.								
760042* (3522)	Jurassic biostratigraphy and paleontology of selected areas of western and Arctic Canada	Poulton, TP	ISPG	P	MaP	BC Alta Yk Frank Mack			
	Obj: To provide detailed biostratigraphic and lithostratigraphic data on Jurassic rocks of selected parts of British Columbia, Alberta, Yukon Territory and Northwest Territories, by field work and study of submitted fossils. To describe taxonomically the most important faunal elements.								
	NTS: 82 G,J,N,O; 83 C,E; 92 H,L,N,O; 93 69; 79; 89 A; 340 D; 560	3 O; 94 B; 103; 104 I,J; 10	5 D; 106 D,	M; 107 M;	115; 116 A	,B,C,N,O,P; 49; 59;			
770048* (3522)	Brachiopods of the lower Upper Devonian Waterways Formation of northeastern Alberta	Norris, AW	ISPG	p	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). To describe brachiopod faunas of comparable age from elsewhere in Canada.								
	NTS: 74 D,E; <u>83 B,F</u> ; 84 P								
770077* (3522)	Paleozoic conodonts of eastern Canada	Nowlan, GS	ISPG	P	OP	Que Ont Man Kee <u>NB</u> <u>NS</u> Nfld			
	Obj: To describe and assess biochronolog dating the rocks in which they as significance of the faunas.								
	NTS: 12 A,E,L; 11 E,F,K; <u>22 A,B</u> ,C,G,H; 2	21 A,G,H,I,L, <u>O,P;</u> 41 G,H;	31 C,F,G						
780029 <sup>-</sup> (3522)	Mesozoic and Cenozoic Foraminifera of the Arctic Western mainland of Canada	McNeil, DH	ISPG	P	MiP	Yk Mack			
	Obj: To establish the biostratigraphic of Arctic western mainland of Canada	, with particular emphasis							
	NTS: 95; 96; 97; 105; 106; 107; 115; 116;	11/							
810038 (3522)	Palynology of Carboniferous, Permian and Triassic Rocks of northern and western Canada	Utting, J	ISPG	Р	MiP	Frank Que NS PEI Nfld NB Mack Yk BC Alta Sask			
	Obj: 1. To establish a palynological zor Canada and to apply this zonatic 2. Taxonomic description of palyno 3. Completion of related studies before joining the Survey.	on to local, regional and wological taxa to provide be	orldwide bie ench marks s	ostratigrap substantiat	hic correla ing the zor	ations. nation.			
	NTS: 560 A,D; 340 A,B,C,D; 59 E,H; 49 E	,F,G,H; 78 G; 79 B; 88 H;	89 A						
820035 (3522)	Upper Mesozoic and Cenozoic Palynology of western and northern Canada	McIntyre, DJ	ISPG	P	MiP	Yk Mack Frank Alta			
	Obj: To establish the biostratigraphic s Mesozoic and Cenozoic palynomorp Delta-Beaufort Sea area.								
	NTS: 82 O,J; 97 C; 107 B,D; 117 A; 106 N	i; 116 F,H,I,P; 95; 96; 105	; 115; 49; 59	9; 69; 79; 8	9; 98; 99; 3	340; 560			

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
830042 (3522)	Carboniferous and Permian biostratigraphy and conodont faunas, western and northern Canada	Bamber, EW	ISPG	P	MiP	Alta Sask Frank			
	Obj: To establish the biostratigraphic succession, areal distribution, paleoecological significance, and taxonomy of upper Paleozoic conodonts, scolecodonts, and other selected microfossils of western and northern Canada, with particular emphasis on the Western Canada Sedimentary Basin and the Sverdrup Basin; to utilize microfossils as indicators of hydrocarbon maturation levels in host rocks.								
	NTS: <u>82 G</u> ,H,J, <u>O</u> ; 78 G; 79 B; 62 K,L								
840075 (3522)	Thermal Maturity Studies of the Paleozoic Sedimentary Rocks, Arctic Island	Norford, BS ds	ISPG	P	MiP	Mack Frank			
	Obj: Determination of the thermal history of the Paleozoic rocks of the Paleozoic platform and Sverdrup Basin, Arctic Islands, using microfossil colour changes and vitrinite reflectance of the sediments. Data resulting from these studies will indicate hydrocarbon maturation and mineralized zones.								
	NTS: 48; 49; 50; 58; 59; 60; 67-69; 77; 78; 7	79; 87-89							
840076* (3522)	Paleozoic biostratigraphy and biofacies studies	Norford, BS	ISPG	p	MiP	Frank <u>Yk</u>			
	Obj: Establishment and refinement of biostratigraphic zonations and correlation, and outlining of major biofacies in rocks of Ordovician to Permian age in the Arctic Islands, by combined studies of microfaunas, palynomorphs, and macrofaunas; in support of ongoing exploration and regional geology program.								
	NTS: 48; 49 F; 50; 58; 59; 60; 67-69; 77-79;	87-89; <u>106</u> ; <u>116</u>							
850026* (3522)	Mesozoic and Tertiary biostratigraphy and paleoecology	Wall, JH	ISPG	P	AI	Frank			
	Obj: To assess the assemblage composition, biochronological significance and paleoecology of Mesozoic and Tertiary microfaunas (chiefly foraminifera), microfloras, ammonites and bivalves of the Sverdrup Basin in order to better define subsurface and outcrop stratigraphy.								
	NTS: 49; 59; 69; 79; 88; 89; 98; 340; 560								
850027* (3522)	Macropaleontology, micropaleontology and palynology of the Mesozoic and Lower Tertiary of the northern Yukon and western District of Mackenzie	McNeil, DH	ISPG	P	MiP	Yk Mack			
	Obj: To apply and expand existing biost micropaleontology (Foraminifera) an and Interior Plains sequences as part	d palynology; relationship	s of these	ontology (A zonations	mmonoids to onshore	and Bivalves) and e Mackenzie Delta			
	NTS: 95; 96; 97; 105; 106; 107; 116; 117								
850028* (3522)	Micropaleontology, palynology and macropaleontology of the surface and subsurface Paleozoic of the northern Yukon and western District of Mackenzie	Bamber, EW	ISPG	P	MaP	Yk Mack			
	Obj: To establish and extend biostratigra groups: palynomorphs (Carbo (Carboniferous/Permian), corals (D Paleozoic macrofauna. Interpretatio	niferous/Permian), cor evonian/Carboniferous), l	nodonts brachiopod	(Upper ls (Devonia	Paleozoi an to Per	ic), ammonoids			
	NTS: 97; <u>106 B,E</u> ,F, <u>L</u> ; 107; <u>116 C,H</u> ; 117; 8	5 D; 95 A							
850029 (3522)	Cretaceous-Tertiary biostratigraphy and paleoecology, palynomorphs and microfossils	McNeil, DH	ISPG	P	MiP	Yk Mack			
	Obj: Establishment, refinement, and applications of Late Creta of J. Dixon project: Stratigraphy and	iceous and Tertiary age in	the Mack	enzie Delta	and Beau	fort Sea in support			
	NTS: 106; 107; 116; 117								
850030* (3522)	Macropaleontology; micropaleontology and palynology of Devonian, Cretaceous and Tertiary rocks of the Interior Plains	Sweet, AR	ISPG	P	MiP	Yk Mack			
	Obj: To establish and refine biostratigrap ammonoids and bivalves, and Dev stratigraphic problems arising from e	onian brachiopods, coral	s and cor	nodonts an	d apply t	hese to resolving			
	NTC. 06. 05								

NTS: <u>96</u>; 85

Project		Project						
Number	Title	Leader	Div.	Subdiv.	Sec.	Prov.		
850046 (3522)	Thermal Maturity studies of the Paleozoic of the northern mainland and Tertiary of the Beaufort Sea/Mackenzie Delta	Higgins, AC	ISPG	P	MiP	Yk Mack		
	Obj: Determination of organic maturity scolecodonts, graptolites and sedim				use of cor	nodonts, palynology,		
	NTS: 116; 106; 107; 117; 97; 96							
850063 (3522)	Service as Foreign Secretary, Canadian Geoscience Council and on other international bodies	Norford, BS	ISPG	P	MaP	-		
	Obj: To facilitate and to coordinate cooperation in the geosciences between non-governmental Canadian organizations and foreign non-governmental organizations. To inform the Canadian geoscientific community of the results, benefits and opportunities of such participation.							
850068* (3522)	Geochemical, sedimentological, biological and biostratigraphic changes across the Frasnian-Famennian boundary interval (Upper Devonian)	Norford, BS	ISPG	Р	MaP	Alta Mack		
	Obj: To document and assess geochemical, sedimentological, biological and biostratigraphic changes across the boundary interval in Canada and elsewhere and to relate these changes to regional or worldwide events. To develop models to explain such events and such changes and to compare these models with others suggested to explain geochemical anomalies and biological extinctions at other horizons in the record of geological time.							
680090 (3523)	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 elements submitted by GSC staff, t					clays, minerals and		
680091 (3523)	Clay and clay minerals investigation	Foscolos, AE	ISPG	PG	GC	-		
	Obj: To improve and develop techniques to develop better techniques for minerals in sedimentary rocks and minerals. These studies also deter oil generating potential; (2) migratic	quantitative, semi-quanti d coals; to conduct resear mine those parameters tha	tative and ch related at affect: ()	qualitative to the cry l) the degre	e analyses stal lattic ee of sedir	of clays and clay e structure of clay		
730062 (3523)	Development of extraction, identification and correlation systems for organic compounds from sedimentary rocks and crude oils	Brooks, PW	ISPG	PG	GC	-		
	Obj: To develop, improve and adapt analytical techniques in organic geochemistry in order to facilitate the identification of petroleum source rocks and to assist in source rock-oil and oil-oil correlations. To develop and/or apply statistical methods to the geochemical data generated in the GSC labs and from outside organizations in order to correlate crude oils into genetic families or groups and to improve data handling and							

storage systems.

760053 Hydrocarbon geochemistry of Snowdon, LR **ISPG** PG GC Frank (3523)Arctic Archipelago

Obj: To determine presence or absence and quality of petroleum source rocks and petroleum product type so that reasonable gas/oil ratios may be determined; to calculate probable or maximum maturation levels so that maturation isopleths can be plotted and used to map probable petroleum regions; to quantitatively evaluate hydrocarbons dispersed in fine grained rocks in order to estimate relative amounts of petroleum in various regions or plays.

NTS: 98; 88; 78; 68; 58; 99; 89; 79; 69; 59; 49; 560; 340

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
760054 (3523)	Hydrocarbon geochemistry of Canadian East Coast offshore	Snowdon, LR	ISPG	PG	GC	Atlantic Offshore		
	Obj: To determine presence or abserveasonable gas/oil ratios may maturation isopleths can be ple hydrocarbons dispersed in fine regions or plays.  NTS: 14; 3; 10; 11; 20	be determined; to calculate of ted and used to map prob	e probable o pable petrole	or maximu eum region	n matura s; to qua	ition levels so that ntitatively evaluate		
760063 (3523)	Hydrocarbon geochemistry of northern interior plains and Beaufort Sea	Snowdon, LR	ISPG	PG	GC	Yk Mack		
	Obj: To determine presence or absence and quality of petroleum source rocks and petroleum product types so that reasonable gas/oil ratios may be determined; to calculate probable or maximum maturation levels so that maturation isopleths can be plotted and used to map probable petroleum regions; to quantitatively evaluate hydrocarbons dispersed in fine grained rocks in order to estimate relative amounts of petroleum in various regions or plays.							
	NTS: 106; 107; 117							
780003 (3523)	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,C	G-K,N,O,I	•		
830005 (3523)	Geological Modelling of Thermal History and Basin Development	Stephenson, RA	ISPG	PG	PR	Alta BC Frank		
	Obj: To develop and refine techniques for the analysis of the subsidence histories, subsidence mechanisms and thermal histories of sedimentary basins. This is to be done with the view that wherever possible there will be augmentation of other projects by melding expertise. Involve industry. Involve lithoprobe investigators.							
	NTS: 83; 84; 93; 94							
830011 (3523)	Thermal History and Basin Evolution – Canadian Frontier Regions	Skibo, DN	ISPG	PG	PR	-		
	Obj: Using computer methods and re- histories in order to better de- sedimentary basins.							
840080* (3523)	Petroleum Geology, Sverdrup Basin, Franklinian Geosyncline and Arctic Interior Platform	Podruski, J	ISPG	PG	PR	<u>Frank</u>		
	Obj: To determine the distribution o Mesozoic rocks of the region and basin studies program for the Fr	d to add thermal, hydrodynar	nic, and geo					
	NTS: 78 F,G,H; 79 B; 88 E,H,G; 89 A							
850023* (3523)	Organic geochemical and maturation studies, Mainland N.W.T. and Yukon	Macqueen, RW	ISPG	PG	PR	Mack Frank Kee Yk		
	Obj: 1. To investigate maturation position Highway, northern Yukon and history/tectonic setting. 2. To continue studying aspect	d N.W.T., in order to better	understand 1	their petrol	eum pote	ntial and subsidence		
	settings.  3. To undertake study of the Yukon.	organic petrography of rocl	k of the Ho	ward's Pas	s lead-zir	nc deposit, northern		
850034 (3523)	Mass Transfer to elements in clastic sequences	Foscolos, AE	ISPG	PG	GC	-		
	Obj: To study mass transfer of el cementation in reservoir rocks stability fields for common allog	and diagenesis of shales.	This data	will be use				

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
850045 (3523)	Oil/Source correlation for Northern Interior Plains crudes	Snowdon, LR	ISPG	PG	GC	Mack			
(55-57	Obj: Acquire and analyze oil, condensate and the Northern Interior Plains. Map proto predict location of possible undisconding	obable source distribution	amples to s once so	make hydro urce rocks	carbon/sou have been	urce correlations in identified in order			
860011* (3523)	Sedimentology of Cretaceous clastics in the western Canada basin	Leckie, DA	ISPG	PG	PR	Alta			
	Obj: To determine the stratigraphy, environments of deposition and origin of various stratigraphic intervals of the Cretaceous of western Canada, including hydrocarbon reservoirs and source beds. The resulting detailed sedimentology will be related to regional tectonic and eustatic sea level fluctuations and the occurrences of oil and gas pools.								
	NTS: 72 E; 82 O; 83 L,M; 93 I								
860029 (3523)	Petroleum geology of Tertiary, Mesozoic and Paleozoic north of 68° on the N.W.T. and Yukon mainland and offshore	Dietrich, JR	ISPG	PG	PR	Mack Yk			
	Obj: To provide a reliable and adequate area's hydrocarbon potential and to proven and potential hydrocarbon occ	document, via publication	by the Geons include	eological Po ding maps	otential Sul and sectio	bcommittee of the ons as appropriate,			
	NTS: 97; 107; 117								
860031 (3523)	Stratigraphy and sedimentology of the Basal Colorado Sandstone (Cretaceous), Cessford Field, Southern Alberta	Banerjee, I	ISPG	PG	PR	Alta			
	Obj: i) Define the stratigraphic status of the Basal Colorado Sandstone within the regional stratigraphic framework; ii) Develop an understanding of the sedimentary facies represented by the Basal Colorado Sandstone; iii) Use this understanding as a tool for predicting continuity and geometry of producing zones; and iv) Study the petrography of the sandstones and evaluate the controls on porosity.								
	NTS: 82								
860032 (3523)	Petroleum geology and tectonic history of the sweetgrass arch	Podruski, JA	ISPG	PG	PR	Alta Sask			
	Obj: To define the location, style, timing, Arch region of the Western Canada S		rbon accu	mulation of	f tectonism	n in the Sweetgrass			
	NTS: 72 E,F,G,J,K,L,M,N,O; 82 G,H,I,J,O,I								
610269 <sup>-</sup> (3524)	Petrographic examination of coking coals from the Kootenay Group, Alberta and British Columbia	Cameron, AR	ISPG	CG	СТ	Alta BC			
	Obj: To determine the coking properties, studies, of coals of the Kootenay Gro		iles for c	orrelation a	ınd environ	nment of deposition			
	NTS: 82 G,J,O								
750088 (3524)	Investigations concerning the optical properties of coals and dispersed organic materials	Kalkreuth, WD	ISPG	CG	СТ	BC Alta			
	Obj: To provide information on metamory the GSC geologists, the data to be u other rock bodies and for estimating	sed for establishing metan	norphic re	egimes for o	correlation	of coal seams and			
	NTS: <u>83 F</u>								
760056 (3524)	Resource evaluation and geology of coal deposits of western Canada	Dawson, FM	ISPG	CG	RE	Alta			
	Obj: To conduct resource evaluation prog and/or field studies to be undertaked and provincial government data on C coals occur. To provide authoritation and industry on the resource poter coalfields in Canada.	n to meet the requirement anada's coal deposits. To ve advice to senior Depar	ts of the study the tmental o	inventory p geological : officials and	orogram. 1 framework d to scient	To acquire industry within which these tists in government			
	1100 00 1 11								

NTS: 83 A,H

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
770047* (3524)	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 evaluation of late Paleozoic, Mesozoic and Tertiary coal resources of western and northern Canada; to prepare suitably illustrated geological reports for publication; to provide resource data for the National Coal Inventory.								
	NTS: 116 B,C,F,G; 106 E,F; 59 E,F,G,H; 96 C,F; 39 H; 49 E,G,H; 58 G,H; 68 H; 340 B; 78 G								
770051 (3524)	The relationship between kerogen (type and rank) and chemical extract data, for the purpose of source rock evaluation	Kalkreuth, WD	ISPG	CG	СТ	Alta			
	Obj: To assess kerogen type and degree of geochemical data.	maturation by microscopic	cal metho	ds and corr	elate the r	esults with organic			
	NTS: <u>82 J,O</u>								
780001 (3524)	Coal Resource Data Management	Mottershead, K	ISPG	CG	RE	-			
(3324)	Obj: To plan and conduct investigations of the methodologies for coal resource assessment in undisturbed and disturbed coal measures. To establish and maintain coal resource data computer files of various coal deposits in Canada and apply, adapt or develop computer programs for the analysis and display of geological data and the compilation of coal resource estimates.								
780006* (3524)	Mineral Matter and Trace Element Content of Canadian Coals	Goodarzi, F	ISPG	CG	СТ	Alta BC			
	<ul> <li>Obj: 1. To determine if coal basins and seams within basins are specific in terms of mineral matter and trace element content.</li> <li>2. To enlarge the data base for the interpretation of the depositional regimes within coal basins.</li> <li>3. To relate mineral matter and trace element content to other compositional parameters.</li> <li>4. To provide a data bank on environmental and utilization aspects of these coals.</li> <li>NTS: 82 G,O,N; 83 A; 93 H,L</li> </ul>								
790013 (3524)	Relationship of reflectance to chemical rank parameters of western Canadian coals	Cameron, AR	ISPG	CG	СТ	Sask Alta BC			
	Obj: 1. To establish reference curves rel means. 2. To determine the relationship of v		-			-			
	NTS: 62 F; 72 H,G,M; 82 G,H,J,O,P; 83 A,C					,			
790022 (3524)	Stratigraphy and sedimentology of the Lower Cretaceous Gething Formation, Rocky Mountain Foothills, Alberta and British Columbia	Gibson, DW	ISPG	CG	CG	Alta BC			
	Obj: To describe the Lower Cretaceous stratigraphic succession; to collect samples for laboratory studies, and to collect fossil flora and fauna; to provide data on the origin, distribution and continuity of coal seams throughout the region; to attempt to determine criteria useful in determining the sub-environments in which the fluvial-deltaic sediments were deposited, and to eventually provide a regional geological model that will be of assistance in determining the potential coal resources of this and other regions.  NTS: 83 L; 93 I,J,O; 94 B,G								
810014* (3524)	Resource evaluation and geology of Canada's coal deposits	Hughes, JD	ISPG	CG	RE	BC Alta Sask			
(2)27)	Obj: To conduct resource evaluation prog and/or field studies to be undertaken and provincial government data on C coals occur. To provide authoritation and industry on the resource potential	n to meet the requirement anada's coal deposits. To s we advice to senior Depart	s of the introduction is to the standard the	nventory p geological f fficials and	rogram. 1 framework I to scient	ommend the office of acquire industry within which these ists in government			

NTS: 83 A,G,H,I,J; <u>93 O,P</u>; 72 F,G,H; 62 E; <u>82 G</u>

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Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
810018 (3524)	Regional Coal Rank Variations in the Kootenay Formation and their relationship to the structural history of the Southern Canadian Rocky !	Cameron, AR Mountains	ISPG	CG	СТ	BC Alta		
	<ol> <li>To delineate vertical and lateral coal rank variation (by vitrinite reflectance) in the Kootenay Formation of the southern Rocky Mountains and Foothills.</li> <li>To utilize this and stratigraphic/structural data to interpret the relative timing of deformation and the relative contribution to total loading of structural and sedimentological components.</li> </ol>							
	NTS: 82 G,J							
810019* (3524)	Regional coalification studies in the Minnes, Bullhead and Fort St. John Groups, N.E. British Columbia	Kalkreuth, W	ISPG	CG	СТ	BC Alta		
	<ol> <li>Obj: 1. To determine the regional coalification pattern of the lower Cretaceous Bullhead, Fort St. John and Minnes Groups in the foothills belt of northeastern British Columbia and west central Alberta.</li> <li>To determine the petrographic composition of coal seams in the region to provide further data on coal quality and utilization and on depositional environments of seam formation.</li> <li>Coal rank data and petrographic profiles of seams will contribute to stratigraphic correlations.</li> </ol>							
	NTS: <u>83 E; 93 I,P</u>							
810039* (3524)	Sedimentological studies of coal-bearing Upper Cretaceous and Paleocene formations, Alberta Foothills and Plains	Jerzykiewicz, T	ISPG	CG	CG	Alta		
	Obj: Establish the stratigraphic and sec the Foothills of Alberta as a basis the stratigraphic correlation between	for evaluation of their coal	l resource	potential.	Provide a	geological base for		
	NTS: Pts 83 A,C; 82 G,H,J,O,P							
820001 (3524)	Completion of outstanding Foothills mapping projects	Gibson, DW	ISPG	CG	CG	Alta		
	Obj: Supervise contract to prepare for a River (82G/8), Livingstone River ( Alberta.	final publication geological (82J/1) and Beehive Mount	maps and ain (82J/2	reports on l	Blairmore the Footh	(82G/9), Carbondale ills of southwestern		
	NTS: 82 G,J							
820048 (3524)	Maturity of dispersed organic materials in lower and middle Paleozoic rock, determined by optical and geochemical studies	Goodarzi, F	ISPG	CG	СТ	-		
	<ol> <li>Obj: 1. To determine optical and morphological character of dispersed organic materials (D.O.M.) in lower and middle Paleozoic rocks.</li> <li>2. To examine vertical variation of D.O.M. in boreholes and determine the paleotemperature.</li> <li>3. To classify the D.O.M. of Lower Paleozoic rocks.</li> <li>4. To study the influence of a) time of burial (age), b) rate of subsidence (rate to heating), c) genera of specific D.O.M., d) petrological and sedimentological environment.</li> </ol>							
830027* (3524)	Petrographic Analyses of coals in the Saunders Group, Outer Foothills Belt, Alberta	Cameron, AR	ISPG	CG	СТ	Alta		

Obj: 1. Determine petrographic character of these coals and establish vertical and lateral changes in petrography.

Determination of rank.
 Investigate possible correlation between petrography and rank changes with sedimentological studies of Jerzykiewicz.

NTS: 82 P; 83 A,F,G

Project	<b>-</b>	Project			_	_		
Number	Title	Leader	Div.	Subdiv.	Sec.	Prov.		
830043 (3524)	Resource Evaluation and Geology of Coal Deposits of western and northern Canada	Smith, GG	ISPG	CG	-	Alta Sask		
	Obj: To conduct resource evaluation programs required for the National Coal Inventory and to recommend the office and/or field studies to be undertaken to meet the requirements of the inventory program. To acquire industry and provincial government data on Canada's coal deposits. To study the geological framework within which these coals occur. To provide authoritative advice to senior Departmental officials and to scientists in government and industry on the resource potential of Canada's coal deposits. To maintain an up-to-date knowledge of coal fields in Canada.							
	NTS: 72 M,G,H; 62 E							
840049* (3524)	Stratigraphy and sedimentology of the Lower Cretaceous Hulcross and Boulder Creek Formations, Rocky Mo Foothills, Alberta and British Columbia	Gibson, DW untain	ISPG	CG	CG	BC Alta		
	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 subenvironments 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: <u>83 L,M; 93 I,O,P; 94 A,B</u>							
850035 (3524)	Organic maturation and properties of kerogen and bitumen in clastic and carbonate sequences in the Sverdrup Basin and Franklinian Geosyncline	Goodarzi, F	ISPG	CG	СТ	Frank		
	Obj: To determine the properties (optical, chemical, trace element etc.) and type of kerogen and bitumen in clastic and carbonte sediments. To classify the bitumen, its origin and to make a comparison of bitumen from frontier areas to those occurring in the rest of Canada and to major bitumen occurrences in the world.							
	NTS: 38; 39; 48; 49; 58; 59; 68; 69; 78; 79;	88; 89; 99						
850043* (3524)	Stratigraphic and coal resource analyses of coal bearing basins of Arctic Canada	Ricketts, BD	ISPG	CG	CG	Mack Yk		
	Obj: To study the coal bearing strata of emphasis on the Late Cretaceous-I Coal Inventory.							
	NTS: 96 C,F; 78 G; <u>49</u> E,G, <u>H</u> ; 59 G,H							
850044 (3524)	Coal-Paleozoic, Mesozoic and Tertiary, western District of Mackenzie and northern Yukon Territory	Cameron, AR	ISPG	CG	СТ	Mack Yk		
	Obj: Examine the structural framework Upper Devonian, Lower Carbonifer the northern Cordillera and contigue	ous, Lower Cretaceous, U	phy, quality	ty, composi aceous and	tion and a lower Ter	areal distribution of tiary coal seams in		
	NTS: 96 C,D,E,F; 106 N; 107 B; 117 C,D;	116 0						
860023* (3524)	Organic petrology of Canadian oil shale deposits	Kalkreuth, WD	ISPG	CG	СТ	NB NS Ont Man BC Frank Mack Kee Yk		
	Obj: To characterize Canadian oil sha materials.	des petrographically to	determine	maturation	n levels a	nd type of organic		
	NTS: <u>11 E; 21 H,I</u>							
860024 (3524)	Conversion properties of selected Canadian coals and oil shales in relation to geological age, geological setting and rank and petrographic compos	Kalkreuth, WD	ISPG	CG	СТ	-		

Obj: To determine the susceptibility of selected coals and oil shales from various geological ages and setting to conversion processes such as hydrogenation and pyrolysis.

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
860036 (3524)	Resource evaluation and geology of coal deposits of western Canada	Wrightson, CB	ISPG	CG	RE	Sask			
	Obj: To conduct resource evaluation programs required for the National Coal Inventory and to recommend the office and/or field studies to be undertaken to meet the requirements of the inventory program. To acquire industry and provincial government data on Canada's coal deposits. To study the geological framework within which these coals occur. To provide authoritative advice to senior Departmental officials and to scientists in government and industry on the resource potential of Canada's coal deposits. To maintain an up-to-date knowledge of coal fields in Canada.								
	NTS: 72 G,H								
720066 (3526)	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.								
750023 (3526)	Methodology of petroleum resource evaluation	Lee, PJ	ISPG	PRAS	-	-			
(3520)	Obj: To provide a reliable, effective and s	tatistically valid methodolo	ogy for es	timation of	resource a	abundance.			
770053 (3526)	Evaluation of Canada's Potential of Heavy Oil and Oil Sands Resources	Raicar, M	ISPG	PRAS	-	Alta Sask			
	Obj: To determine the extent of in-place resources; to evaluate various EOR processes to recover these resources; to determine the recoverable portion of these resources; to evaluate the impact of international and national price changes on the recovery of these resources in Canada.								
770067 (3526)	Canada Oil and Gas Pool data base-file	Skibo, DN	ISPG	PRAS	~	-			
	Obj: To incorporate and maintain a data base of all parametric data relevant to the accumulation and exploitation of oil and gas pools in western, frontier and offshore regions of Canada. To provide a data base suited to reserves calculation, resources estimation, input to economic (costing and project development) studies and for application of and research on statistical methodologies for the evaluation of undiscovered hydrocarbon resources potential in all petroliferous regions of Canada.								
820031 (3526)	Petroleum Resource Evaluation Interchange	Taylor, GC	ISPG	PRAS	-	-			
	Obj: To provide a firm basis for petro characteristics of hydrocarbon accumapplicable to Canadian basins; and by governments.	nulations on a worldwide b	asis; by e	stablishing	and quanti:	fying valid analogs			
850061 (3526)	Western Canada Basin Petroleum Resources Assessment	Barclay, JE	ISPG	PG	PR	Man Sask Alta BC			
	Obj: To make an assessment of undiscover	ed oil and gas potential for	Western	Canada Sec	dimentary 1	Basin.			
	NTS: 62; 72; 73; 74; 82; 83; 84; 93; 94								
850062 (3526)	Evaluation of Hydrocarbon Potential of Mackenzie Corridor, Northern Mainland	Hamblin, AP	ISPG	PG	-	Yk			
	Obj: To assess the hydrocarbon resource sedimentary basins flanking the Mack				orthwest 1	Territories, in the			
850064 (3526)	Evaluation of the Hydrocarbon Potential of the Arctic Islands	Podruski, JA	ISPG	PG	PR	Frank			
	Obj: To assess the hydrocarbon resource p		ds.						
	NTS: 37-39; 47-49; 57-59; 67-69; 77-79; 87	7-89; 97-99; 120; 340; 560							
850066 (3526)	Habitat of oil – Basin classification hydrocarbon resources	McMillan, NJ	ISPG	PRAS	-	-			
	Obj: To increase our basic understanding developing broad basin analogues to basin tectonics and other regional parts.	use as an inference net for	or unders	tanding res					

Project Number		Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
Lithosphere and Canadian Shield Division									
660006 <sup>-</sup> (3531)		te studies in the dai-Rankin Inlet region	Davidson, A	LCS	-	SG	Kee		
	Obj: To classify the granitic rocks according to age, geological and chemical nature, using geophysical parameters where available and to relate this classification to the regional geology and mineral deposits.								
	NTS:	55 E,F,K,L; 65 H,I							
660009 <sup>-</sup> (3531)		Arm of Great Slave Lake, ict of Mackenzie	Hoffman, PF	LCS	-	BS	Mack		
	Obj:	To refine existing stratigraphic des determine source regions and dispersa and reconstruct the Paleogeographic h	l patterns in the sediment	ary fill;					
	NTS:	75 E,L,K; 85 H,I							
670002	Opera	ation Bylot	Jackson, GD	LCS	-	NC	Frank		
(3531)	Obj: To provide a reconnaissance geological survey of a previously unmapped area and describe and interpret the broad geological framework and outline areas of potential economic interest.								
	NTS:	27; 37; 38; 47; 48							
680071 (3531)	Alkal	ine rocks in Canada	Currie, KL	LCS	~	PET	-		
()))1)	Obj: To identify and examine occurrences of alkaline rocks in Canada, and to explain their origin, development, mode of emplacement and economic potential.								
690061 (3531)	Opera	ation Penny Highlands	Jackson, GD	LCS	-	NC	Frank		
	Obj:	To provide a reconnaissance geological geological framework and outline area			ed area and	d describe	and interpret the		
	NTS:	16 E,K-M; 26 H,P; 27 A,B; 36 P; 37 A,	В						
710023 <sup>-</sup> (3531)		te studies in the Slave nce (Phase 1)	Davidson, A	LCS	-	SG	Mack		
		To classify the granitic rocks accord where available, and to relate them to				sing geoph	ysical parameters		
	NTS:	85 I,P							
720052 (3531)	Geolo	ogy of Indin Lake (86 B)	Frith, RA	LCS	-	BS	Mack		
()))1)		To revise and interpret to modern s through early reconnaissance and semi		ne Preca	mb <mark>rian te</mark> rr	ane of the	area known only		
	NTS:	86 B							
720056 <sup>-</sup> (3531)	west	omagnetism of the dykes of Greenland	Fahrig, WF	LCS	-	PMag	-		
	Obj:	To determine the paleomagnetism of correlation of the rocks of this area w					amine the possible		
720062 (3531)	Princ	anic rocks of the e Albert Belt	Schau, M	LCS	-	NC	Frank Kee		
	Obj:	To determine the structure, stratigrar relationship to the adjacent gneisses potential of the belt.							
	NTS:	47 A,D; 56 J,K							
730040* (3531)		ean volcanic studies in ear-Slave Province	Lambert, MB	LCS	-	BS	Mack		
	Obj: To determine 1) stratigraphic and structural relations; 2) location of volcanic centres; 3) sequence and types of volcanic eruptions and their environment of deposition; 4) relationship of mineral deposits to volcanic stratigraphy and volcanic processes.								
	NTS:	76 B,C,F,G							

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
730043 (3531)	Volcanic rocks of the Appalachian region	Bostock, HH	LCS	-	BS	NB NS Nfld
	Obj: To determine the physical volcano volcanic rocks of the Appalachian formation of associated mineral dep	Orogen in order to relate				
	NTS: Pts 2 E/12, 5; 12 H					
730044* (3531)	Granite studies in the Appalachians	Currie, KL	LCS		PET	NS <u>Nfld</u> NB
	Obj: 1. To establish a set of criteria bas in the Appalachian region can be 2. to establish the physical cond subsequent deformation of each of the second subsequent deformation of each of the to evaluate the economic possibility.	assigned to a limited numb ditions of emplacement, of these classes; tonic development of the A	per of well fractionat Appalachia	defined cla ion trends, n region;	sses; solidifica	tion history, and
	NTS: 2 E; <u>12 A</u> ,H; <u>21 G</u> ,H					
740017 (3531)	Metamorphism in the Canadian Shield	Fraser, JA	LCS	-	NC	Que Ont Man Sask Nfld Mack Frank Kee
	Obj: To provide suitable maps and studie way as to make a unique contribut regional and local information on resource potential of the Canadian S	ion to the understanding ometamorphic grade and h	of the dev	elopment o	f the Shiel	d; and to provide
740019 (3531)	Archean felsic volcanic complex near Regan Lake, District of Mackenzie, NWT	Lambert, MB	LCS	-	BS	Mack
	Obj: 1. To map in detail the felsic volca 2. to establish criteria for the ider Province; 3. to establish a model for the his Slave Province to provide a basis	ntification and interpretations, environment and pro-	cesses of	volcanism t		
	NTS: Pts of 76 B,C,F,G					
750006 (3531)	Stratigraphy and petrology of the Natkusiak Basalts, Victoria Island	Baragar, WRA	LCS	-	SP	Frank
	Obj: To determine the variation in chemical composition and petrography of the lavas with stratigraphic level, to obtain representative bulk compositions of the flows, to determine relationships between the composition of the flows and associated copper prospects and between the flows and accompanying sills, and to obtain contributory information towards an understanding of late Precambrian tectonic history in the northwestern Canadian Shield.					
	NTS: Pts of 77 G; 78 B; 87 E,F,G,H; 88 A,	В				
750011 (3531)	Geology, petrology and economic potential of the anorthosite suite in southern Labrador	Emslie, RF	LCS		PET	Nfld
	Obj: 1. Comparison of rock types, rock Grenville Front. 2. Estimation of the grade of region 3. Determination of age of the anomatical developments of the economic minus of the	nal metamorphism in this p	art of Gre	nville Provi		tures north of the
	NTS: 13 B,C,E,F,G; <u>23 A</u>					
750061* (3531)	Lower Paleozoic geology of Eastern Canada	Sanford, BV	LCS	-	SP	Ont Que NB
	Obj: 1. To continue detailed and regional studies of Lower Paleozoic terrain of eastern Canada,  - in northern and eastern offshore regions, reconnaissance mapping on an opportunity basis and  - in the southern regions, detailed mapping when required for terrain studies.  2. To study all data that become available from petroleum exploration for purposes of hydrocarbon evaluation of					

To study all data that become available from petroleum exploration for purposes of hydrocarbon evaluation of the frontier basins.

NTS: Pts 30; 31; 40; 41; 52; 21

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
750102 (3531)	Regional syntheses, southern Keewatin, Project I	Eade, KE	LCS	-	NC	Kee
	Obj: To provide a single comprehensive source for all relevant data on the region; to prepare and have available for presentation broad regional and tectonic synthesis; and to have a designated "expert" who will be thoroughly familiar with the geological data and related economic aspects of the region.					
	NTS: 65 C					
760023 (3531)	Precambrian geology of south- east Ellesmere, Devon and Cobourg Islands	Frisch, T	LCS	-	NC	Frank
	Obj: To complete the reconnaissance geol	ogical mapping of the north	nern Chur	chill Provin	ce.	
	NTS: Pts 38 B; 39 B-H; 48 E-H; 49 A,B,D,	E,H				
760024 (3531)	Keskarrah Bay map-area, District of Mackenzie, NWT	Henderson, JB	LCS	-	BS	Mack
	Obj: To determine the extent and signicontrol of base metal mineralization region; and to obtain a better unders NTS: 86 H/2,3,6,7	n to improve understanding	of iron	formations	and their s	significance in the
760026 (3531)	Geology of Penrhyn Fold Belt, Melville Peninsula, NWT	Henderson, JR	LCS	-	NC	Frank
	Obj: To determine the structural, meta- migmatites, and the covering Penrhy development of polyphase folds in a and isotopic age bases for regional co	yn Group metasedimentary n area of high-grade metam	gneisses	and schists.	To elucio	late the structural
	NTS: 46 O,P; 47 A					
760027*	Redbed sequences in Canada	Chandler, FW	LCS	-	PET	Ont Que
Obj: To determine the origin and sedimentological and tectoic processes that yield redbed set the influences of climate, topography, weathering, sedimentation and diagenesis on their or the processes which contribute to the concentration of economic minerals in redbed sequences.					their origin	; and to determine
	NTS: Pts 31; 41					
760061* (3531)	Regional synthesis of the Grenville Province in Ontario and western Quebec	Davidson, A	LCS	-	SG	Ont Que
Obj: To effect a regional synthesis of the geology of the Grenville Province in Ontario and western Quebec interpret the synthesis in terms of the geological evolution of the area, and in cooperation with project 7 of the Grenville Province as a whole.						ern Quebec and to th project 750062,
	NTS: Pts 31; 41; 32					
770013	Operation Borden	Jackson, GD	LCS	-	NC	Frank
(3531)	Obj: A study of the stratigraphy, sedimentology, and economic potential of the upper Proterozoic rocks (EQUI and ULUKSAN GROUPS) of northern Baffin and Bylot Islands, and of the relationships between these strated the underlying basement gneisses. A basin analysis will supply data for comparison and possible correlation strata of west Greenland and Arctic Canada.					
	NTS: Pts of 37 A; 38 B,C; 48 A-D					
770019 <sup>-</sup> (3531)	Hepburn Batholith, Hepburn Lake map-area, District of Mackenzie	Hoffman, PF	LCS	-	BS	Mack
	Obj: To provide an analysis of the deposition and deformation within a eugeosyncline, and describe the plutonic and metamorphic character of the batholith, in order to reconstruct the tectonic history and understand the significance of the batholithic-eugeosynclinal belt as a whole, including its mineral deposits.					
	NTS: 86 J,O					
770028 <sup>-</sup> (3531)	Regional Synthesis – Baffin Island: Project I	Jackson, GD	LCS	-	NC	Frank
	Obj: Regional synthesis of all aspects Ellesmere Islands in the District of F		ogy of E	affin, east	ern Devon	and southeastern
	NTS: 56-59; 45-49; 34-38; 24-27; 14-16					

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Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
780008 (3531)	Macquoid Lake (W½), Thirty Mile and Tebesjuak Lake map-areas	LeCheminant, AN	LCS	~	NC	Kee
	Obj: To interpret the geology of the area to a standard of 1:250,000 mapping, and thereby update the geological data base to improve regional tectonic syntheses. To investigate the structure and metamorphism of Aphebian and Archean gneisses and their relation to the Dubawnt group cratonic cover.					
	NTS: 65 P (W 1/2); 65 O (E 1/2); 55 M (W 1/2)					
780009* (3531)	Healey Lake map-area, District of Mackenzie	Henderson, JB	LCS	-	BS	Mack
	Obj: To determine the general structural order to better understand the nature economic potential of the area and to	e of the boundary between	Slave an			
	NTS: <u>76 B</u>					
780012 (3531)	Stratigraphy and geochemistry of the volcanic rocks of the Circum-Ungava Belt	Baragar, WRA	LCS	-	SP	Kee Que
	<ol> <li>Obj: 1. To determine the petrochemical characteristics and the stratigraphic relationships of volcanic and related rocks of the Circum-Ungava Belt and to clarify the nature of their tectonic setting.</li> <li>To examine the relationships of sheeted dykes to associated volcanic rocks and plutonic complex in the Troodos ophiolite, Cyprus, with a view to understanding the mechanism of formation of the oceanic crust and its possible bearing on Precambrian volcanic belts.</li> <li>NTS: 44 I,P; 34 E; 35 C,F,K,L</li> </ol>					
780025 (3531)	Archean Rocks of the Nain Province in Hopedale (13 N), Snegamook Lake (13 K), and Makkovik (13 O) map-areas, Labrador	Ermanovics, I	LCS	-	SG	Nfld
	Obj: 1. To produce maps (suitable for peconomic mineral potential of the 2. To monitor, compile and synthesi Canada – Newfoundland Mineral I	e Archean rocks in these are ze results of the geological	eas. I mapping			
	NTS: 13 N,K,O					
790009 (3531)	Kamilukuak Lake Map-area, District of Keewatin, N.W.T.	Tella, S	LCS	-	NC	Kee
	Obj: To map the bedrock geology of the placed on the Dubawnt Group rocks,					
	NTS: 65 K,L; 66 H					
790024 (3531)	Geology of the Foxe Fold belt (EAST HALF), Baffin Island	Henderson, JR	LCS	-	NC	Frank
	Obj: To establish the stratigraphy, struct rocks in the Piling Group and their r of Archean "gneiss domes" in the ar region evaluated.	elationship to the rocks of	the Mary	River Gro	up. The st	ructural evolution
	NTS: A,B,C,D					
790025 (3531)	Petrology, mineralogy, geochemistry and mineral potential of a Helikian non-orogenic granitic suite in central Labrador and adjacent Quebec	Emslie, RF	LCS	-	PET	Nfld Que
	Obj: To improve understanding of the cornon-orogenic granitic suites.	nditions and processes that	control c	oncentratio	ns of U, Sr	n, Be, W and Mo in
	NTS: 32; 22; 12					
790029* (3531)	Gneissic basement to the Fury and Hecla Formation and the Autridge Formation	Ciesielski, A	LCS	-	SG	Frank
	Obj: To map the basement gneisses adjactished at a scale suitable for publicationships and the relationship of	ation at 1:100 000 or 1:250	000. En	nphasis to b	Autridge Fo be placed o	ormation on Baffin on basement cover
	NITC. AT A D D E E					

NTS: 47 A,B,D,E,F

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
800005 (3531)	Metamorphism and structure in northeast Superior Province	Ciesielski, A	LCS	-	SG	Que
	Obj: 1. To understand the geological evo Province, and in particular, the re 2. To contribute, through field studio NTS: 33	elationship between greenst	one and g	granulite ter	rains.	
800006 (3531)	Geology of Beechey-Duggan Lakes area	Frith, RA	LCS	-	BS	Mack
,	Obj: 1. Map for 1:250,000 published scale 2. Understand the nature of the The 3. Produce final maps and a report.					
	NTS: Pts 76 F,G,H; 86 B					
800007* (3531)	Metamorphism in the Kisseynew Subprovince	Froese, E	LCS	-	PET	Man Sask
	Obj: To study the metamorphic zonation facies in the centre, and to dete sedimentary subprovinces.	in the Kisseynew Subprovi rmine its relationship to	ince, from the dev	n the low g velopment	rade marg of alterna	gin to the granulite ating volcanic and
	NTS: Pts 76 F,G,H; 86 B; 63 J,K,N,O					
800008 (3531)	Geology of the Baker Lake map-area	Schau, M	LCS	-	NC	Kee
	Obj: To refine and upgrade the 16-mile r metavolcanics and Aphebian(?) meta potential will be evaluated.	econnaissance, with emphasediments, and relationship	asis on th ip to gne	e structure issic and g	and strat	igraphy of Archean cks. The economic
	NTS: 56 D					
800009 (3531)	Geology of Fort Smith, District of Mackenzie	Bostock, HH	LCS	-	BS	Mack
	Obj: To complete mapping of Precambri Buffalo River (85 A).	an rocks at 1:250,000 sca	de in Fo	rt Smith (7	5 D) and	east part of Little
	NTS: 75 D, E½, 85 A(E½)					
800012 (3531)	Geology of Woodburn Lake map area, District of Keewatin	Fraser, JA	LCS	-	NC	Kee
	Obj: To upgrade the 16-mile geological re the stratigraphy and structure of the granitic basement. To assess the eco	Proterozoic(?) supracrusta	al rocks, a	in particula ind to deter	ar to refin mine their	e interpretations of relationship to the
	NTS: 56 E					
800014 (3531)	Metamorphism of volcanic rocks, Crowduck Bay, Manitoba	Gordon, TM	LCS	-	PET	Man
	Obj: Conduct a detailed field and petrolo provide correlation criteria for mapp chemical processes which limit the e	oing amphibolites and gneis	ses equiv	alent to vo	sedimenta Icanic belt	ry rocks in order to ts and elucidate the
	NTS: 63 J,K,N,O,P; 64 A,B,C					
810020 (3531)	Thrust-Fold Belt of Wopmay Orogen — Internal Zone	St-Onge, MR	LCS	-	BS	Mack
	Obj: To extend the study of metamorphi early Proterozoic continental margin		re resulti	ng from co	llisional o	rogeny affecting an
	NTS: 86 E,F,G					
810021*	Externides of Wopmay Orogen	Hoffman, PF	LCS	_	BS	Mack
(3531)	Obj: To extend the stratigraphic and st destruction by collisional orogeny.	ructural study of an early	y Protero	zoic passiv	e contine	ntal margin and its
	NTS: <u>86 H</u> ,I,J,M,O,P; <u>76 J,K</u> ,M					

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.	
820004* (3531)	Geology of Aberdeen Lake and parts of adjoining map areas, District of Keewatin	LeCheminant, AN	LCS	-	NC	Kee	
	Obj: To interpret the geology of the area to produce a 1:250,000 geological map that will contribute to a regional geological synthesis. Emphasis is to be placed on study of Proterozoic volcanic-plutonic complexes and the stratigraphic and sedimentologic history of the Thelon Formation.						
	NTS: <u>66 A</u> ,B,C,F,G; Pts 65 O,N						
820006 (3531)	Regional Geological Synthesis, Western Superior Province	Percival, JA	LCS	-	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: <u>52</u> ; 41						
820007 (3531)	Deep Rose Lake and parts of adjoining map areas, District of Keewatin	Tella, S	LCS	-	NC	Kee	
	Obj: To map the bedrock geology at a sca of the basement complex and that of Emphases will be placed on the st distribution and tectonic significance	the supracrustal rocks, and tudy of cataclastic to my	nd to asse	ss the econ	omic poter	ntial of the region.	
	NTS: 66 B,F,G,H						
820008 (3531)	Geology of Montresor River and Lower Hayes River map areas, District of Keewatin	Frisch, T	LCS	-	NC	Kee	
	Obj: The mapping of the supracrustal Char NTS: 66 I; Pts 66 P; 56 L,M,N	ntrey Belt, its extensions a	nd its env	virons at a s	cale of 1:2	50,000.	
820009	Hottah Terrane	Hildebrand, RS	LCS	-	BS	Mack	
(3531)	Obj: To identify and characterize rocks of Zone, and interpret their role in the 1	f the Hottah Terrane, est			to the Gre	eat Bear Magmatic	
	NTS: 86 D,E						
820010* (3531)	Precambrian Shield Volume "Decade of North American Geology"	Hoffman, PF	LCS	-	BS	Alta Sask Man Ont Que Nfld	
	Obj: To produce an up-to-date volume (approx. 300 printed pages), and geological and tectonic maps on the geology of the Canadian Precambrian Shield, (as part of a 20 volume work on the geology of North America - GSA centennial project).						
	NTS: Pts 24; 52; 62; 63; 13; 31; 32; 41; 42						
830008* (3531)	Displacement History of Major Shear Zones in Western Churchill Province	Hanmer, S	LCS	-	SG	Mack <u>Sask</u>	
	Obj: To document displacement histories of selected portions of two major shear zones in Churchill Province: MacDonald-La Loche and Grease RBlack L. zones. To provide structural framework for on-going regional mapping in Mackenzie and Keewatin Districts and north Saskatchewan and to permit re-interpretation of existing maps.						
	NTS: 85 H; 75 E,L; <u>74 P</u>						
830009* (3531)	Structural studies in the Grenville Province of Ontario and western Quebec	Hanmer, S	LCS	-	SG	Ont Que	
	Obj: To examine the strain characteristic and western Quebec, in order to determ to relate such kinematic data to current.	ermine kinematic sense an	undaries d signific	within the ( ance of pos	Grenville P sible differ	rovince of Ontario rential movements.	
	NTS. 31 E E. //1						

NTS: <u>31 E,F</u>; 41

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
830010 (3531)	Tinney Hills (76 J)-Overby Lake (76 I W½) map areas	Thompson, PH	LCS	-	BS	Mack		
	and structure of gneissic and migma	While mapping the geology of the Archean rocks at 1:250,000 scale emphasis will be placed on the petrogenesis and structure of gneissic and migmatitic rocks and on the age, location and significance of the Thelon Front tectonic zone, the boundary between the Slave and Churchill Structural Provinces.						
	NTS: 76 G,I,J; 66 L							
830029 (3531)	1:1 000 000 Map — western area of south Baffin Island	Taylor, FC	LCS	-	SP	Frank		
	Obj: To compile a 1:1 000 000 scale map of NTS: 36	of NTS 36 – to form part of	the 1:1 0	00 000 serie	es of maps.			
840004 (3531)	Volcanic rocks of Kaminak Lake region, N.W.T.	Taylor, FC	LCS	~	SP	Kee		
	Obj: To collate data gathered and partiall	y processed by Dr. R. Ridle	er and cor	npile it into	a useful re	eport.		
	NTS: Pts 55 E,K,L							
840005* (3531)	Artillery Lake map area, District of Mackenzie	Henderson, JB	LCS	-	BS	Mack		
	Obj: To analyse and interpret geological of and development of geological mod continuing program of activity in Provinces.	els to be portrayed in a	geologica	l map and	written re	port as part of a		
	NTS: Pts 75 O,P; 76 A,B							
840013* (3531)	Granulites of Northern Churchill Province	Schau, M	LCS	-	NC	Frank		
	Obj: To study 2 new granulite terranes to provide field data on relations within and between high grade complexes and their country rock, as well as determine easily measured variables from samples on hand to provide geological, geophysical and geochemical constraints on models of high grade complex formation and/or emplacement.							
	NTS: <u>47 A,B,C,D</u>							
840016* (3531)	Etudes des roches Archéennes et Protérozoiques dans la région du Front de Grenville entre Chibougamau et Val d'Or, Québec	Ciesielski, A	LCS	-	SG	Que		
<ul> <li>Obj: 1. Reconnaissance des séries Archéennes au sub-est de la ZTFG (du zone tectonique du Front de C</li> <li>2. Etudes des styles structuraux de part et d'autre de la ZTFG;</li> <li>3. Comparaison des contextes géologiques de part et d'autre de la ZTFG;</li> <li>4. Chronologie absolue et relative des gneiss gris et des granitoides adjaçents a la ZTFG.</li> </ul>						de Grenville);		
	NTS: <u>32 B,G</u> ,H,I,J							
840020 (3531)	Paleomagnetism of Proterozoic igneous and sedimentary rocks of the Precambrian Shield	Fahrig, WF	LCS	-	PMag	Nfld NB NS Que Ont Man Sask Frank Mack Kee		
	Obj: To measure the paleomagnetism of igneous and sedimentary Proterozoic units of the Canadian Shield for use in determining the correlation of these units, their paleolatitude at the time of their formation, the relative movements of cratonic plates since the formation of these units and to contribute general information on the apparent polar wandering curve for the plates containing these units.							
	NTS: Pts 12-14; 21-27; 30-39; 40-49; 52-5	58; 62-66; 73-78; 84-88; 97						
840021 (3531)	Study of Gaspé Granites	Whalen, JB	LCS	_	PET	Que		
	Obj: To improve existing maps of detailed petrochemical and petrologic sampling to establish:  1. the various granite phases and their field relationships;  2. the mineralogy and modal abundances in various phases;  3. the bulk rock major and trace element compositions of units;  4. the mineral phase compositions for magma modelling, and  5. isotope and rare earth geochemistry.							
	NTS: Pts 22 A,B							

Project		Project						
Number	Title	Leader	Div.	Subdiv.	Sec.	Prov.		
840023* (3531)	Stratigraphy and sedimentology of Silurian rocks of Gaspé	Currie, KL	LCS	-	PET	Que		
	Obj: To determine the tectonic-stratigraphic setting of the Cabano, Point aux Trembles and Lac Raymond Formation from the provenance, environment of sedimentation, and transporting mechanisms of the sedimentary materials							
	NTS: Pts 22 B							
840024* (3531)	Geology of the Northern Long Range Mountains, Newfoundland and adjacent areas	Currie, KL	LCS	-	PET	<u>Nfld</u>		
Obj: To map and describe the metamorphic and plutonic rocks of the Northern Long Range Mountains and adjacents at 1:100,000 or more detailed scale; to determine the geological evolution of this terrane, and evaluate mineral potential.								
	NTS: Pts 12 H,I; 2 E							
840045*	Stellarton Basin Analysis	Yeo, G	LCS		PET	<u>NS</u>		
(3531)	Obj: During the period 1984-1989 to revie of the Stellarton Graben and adjacen and metal (especially Cu, Pb and U) p	it areas, to provide a base						
	NTS: <u>Pts 11 E</u>							
850001* (3531)	Tectonic Investigation of the Valhalla Gneiss Complex and Vicinity, Southeast BC	Parrish, RR	LCS	-	G	<u>BC</u>		
	Obj: To assess the structural kinematics of deformed gneisses in the complex, to perform detailed structural and stratigraphic mapping of the metasedimentary part of the complex, to determine the tectonic relationship between rock units of the dome to the Castlegar gneiss to the south, the Nelson Batholith to the east, the Slocan Sycline to the north, and to the Monashee Complex to the northwest, and to collect rocks for age determinations relevant to formulating a tectonic model for this area.							
	NTS: 82 F (W ½)							
850002* (3531)	Chesterfield Inlet (55¢), and Parts of Tavani (55K/9,16) and Marble Island (55J/13,14) map areas, District of Keewatin, NWT	Tella, S	LCS	-	NC	Kee		
	Obj: To map the bedrock geology at so distribution, structure, and metamo distinguish the effects of Kenoran ar be placed on the study of shear zones	rphism of the basement nd Hudsonian Orogenies, an	complex nd to asse	and that ess the econ	of the sup	racrustal rocks, to		
	NTS: Pts 55 J,K,O							
850003* (3531)	Cape Smith Fold-Thrust Belt — East End	St-Onge, MR	LCS	-	BS	Que		
	Obj: 1. Analysis of strain patterns within levels with brittle strain at higher 2. Resolution of horizontal and vert culminations. 3. Study of the metamorphic assemble.	structural levels. ical contributions to the n	et strain	in both the	fold-thrus	t belt and basement		
	NTS: <u>35</u> G, <u>H</u> ; <u>25 E</u>							
850004*	Geology of the Wager Bay "Shear Zone"	Henderson, JR	LCS	***	NC	Kee		
(3531)	Obj: To determine the cause of the intense east-west striking linear aeromagnetic anomaly zone on the south coast of Wager Bay (for reference see G.S.C. Map NQ15-16-17M), its westward extent, and the relationship of rocks north and south to the zone.							
	NTS: Pts 56 G,H,J; 46 E							
850005* (3531)	Geology, Taltston Lake and Fort Resolution Map-areas	Bostock, HH	LCS	-	BS	Mack		
	Obj; To complete reconnaissance scale Resolution (86H) map-areas.	mapping of Precambrian	rocks w	vithin the	Talston La	ake (75E) and Fort		

NTS: <u>75 E</u>; 85 H

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
850006* (3531)	Structural Studies in the Metamorphic Hinterland of Wopmay Orogen	King, JE	LCS	-	BS	Mack		
	Obj: Structural analysis, evaluation and geometries at high and low structura	d comparison of autocht I levels in the metamorphi	thonous a c hinterla	and allochtl and of Wopm	nonous ba ay Orogen	sement and strain		
	NTS: Pts <u>86 B,G,J,K,O</u>							
850010* (3531)	Regional Correlation, gold-bearing volcanic belts, Flin Flon-Southend-La Rong	Froese, E ge	LCS	-	PET	Sask		
	Obj: To gain a unified comprehension of large-scale geological features in an area underlain by Kisseynew gneisses and bordered by volcanic rocks of the Flin Flon and Lynn Lake belts. The work will emphasize a stratigraphic subdivision of the Kisseynew gneisses.							
	NTS: Pts 63 L,M; 64 D							
850011* (3531)	Structural studies, Thompson Belt, Manitoba	Froese, E	LCS	-	PET	Man		
	Obj: To study problems of structural geology in the Thompson Belt. In particular, the work is to concentrate on a investigation of the Pipe 2 mine property of INCO and the immediate vicinity, an area approximately 20 km b 20 km in extent.							
	NTS: <u>63 O,P</u>							
850014* (3531)	Geological and Geophysical Studies of the Kapuskasing Structure	Percival, JA	LCS	-	SG	Ont		
	Obj: To carry out and support field and la as an integral part of the Kapuskasin		n the Kap	uskasing str	ucture and	d surrounding region		
	NTS: 41 O,N; 42 B,C,G,I,J; 52 B,C							
850015 (3531)	Georesource Studies of the Nain and Churchill Structural Provinces in North River (14E) and Nutak (14F) map-areas, Labrador (Newfoundland and Quebec)	Ermanovics, IF	LCS	-	SG	Nfld Que		
	Obj: Develop the georesource data base tectonic zone supported by detailed							
	NTS: 14 E,F							
850016*	Granites of the Eastern Meguma Terrane	Hill, J	LCS	-	PET	<u>NS</u>		
(3531)	Obj: To raise to a common professional standard, geological knowledge of the granitic rocks, their aureoles and associated mineralization, that lie within the Meguma terrane east of Halifax (63°30'W); to place the granites in the tectonic evolution of the region.							
	NTS: Pts <u>11</u> D, <u>E,F</u>							
850017* (3531)	Geology of the southern Long Range	van Berkel, JT	LCS	- 4 4	PET	Nfld		
	Obj: To map the geology and structure of the southern Long Range, Newfoundland, to determine the mesoscopic and megascopic structure and petrology of the units, and to analyze their tectonic position in the Canadian Appalachians.							
	NTS: Pts 12 A,B							
850018* (3531)	Structural analysis of the northern part of the Miramichi Massif	van Staal, C	LCS	-	PET	NB		
	Obj: To gain a better understanding of rocks in New Brunswick to develop a					g camp and related		
	NTS: Pts 21							
850019*	Study of the New Brunswick batholith belt	Whalen, JB	LCS	-	PET	NB		
(3531)	Obj: 1. To improve existing maps for pet 2. To establish the mineralogy, m compositions of the various pluto 3. To interpret the implications of New Brunswick.	odal compositions and w nic rock types recognized	hole rock by earlie	major and workers (F	yffe et al.	, 1981).		

NTS: Pts 21 G,J,O,P

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
850024* (3531)	Diagenesis and structure of the Albert Formation	Currie, KL	LCS	-	PET	<u>NB</u>		
	Obj: To determine whether there are larg respect to oil shale and metals poten		Albert Fo	rmation, and	d to assess	its diagenesis with		
	NTS: <u>21 G</u> , H, I (parts of)							
850025* (3531)	Geological evolution of the southwest Churchill Province	Gordon, TM	LCS	-	PET	Man		
	Obj: To elucidate the tectonic evolution of the southwestern Churchill Province in Manitoba by selected geochronological studies and by related structural and metamorphic studies.							
	NTS: <u>63 N,O; 64 A,B,C</u>							
850050 (3531)	Subpaleozoic Compilation/Core Drilling	Gordon, TM	LCS	-	PET	Man		
(3331)	Obj: To investigate, map and interpret P the Shield south of the Flin Flon – Sn	recambrian geology benea ow Lake Belt in Cormoran	th Paleoz t Lake (N	zoic cover r TS 63 K) ma	ocks adjac ap area.	ent to the edge of		
	NTS: 63 K							
850059 (3531)	The tectonics of Archean and Proterozoic gneisses bordering the Ungava Trough	Baragar, WRA	LCS	-	SP	Qué		
	Obj: 1. To map and interpret in tectonic	terms the external structu	ral and li	thological se	etting of th	ne Ungava Trough.		
	NTS: Parts of 35 C,F,K,L							
860001* (3531)	Precambrian Shield of the central Boothia Uplift	Frisch, T	LCS	-	NC	Frank		
	Obj: Geological mapping to 1:250,000 scale of the Precambrian Shield of northern Boothia Peninsula and southern Somerset Island (between 71° and 73°N). The area includes the best exposed crystalline terrane of the Boothia Uplift and a possible extension of the Thelon Tectonic Zone, a major break in the Canadian Shield.							
	NTS: Pts 67 H,G; 57 G; 58 B							
860002*	Central Great Bear magmatic zone	Hildebrand, RS	LCS		BS	Mack		
(3531)	Obj: Complete traverse of central Wopm magmatic zone.	nay Orogen and characteri	ze rocks	and structu	re of the	central Great Bear		
	NTS: <u>86 F</u>							
860003* (3531)	Geology of the Ashuanipi Granulite Complex in the Schefferville Area	Percival, JA	LCS	-	SG	Que Nfld		
	<ol> <li>Obj. 1. Produce 1:250,000 geological map of the Archean rocks of the Ashuanipi Complex in the Schefferville (233) map sheet.</li> <li>Study metamorphism and structure of granulites to determine their origin and P-T-fluid composition conditions.</li> <li>Determine ages of rock types, metamorphism and uplift events.</li> </ol>							
	NTS: 23 J	•						
860034*	Georgian Bay Geological Synthesis	Davidson, A	LCS	-	SG	Ont		
(3531)	Obj: To establish the origins, relationship studied in the larger context of Gren		long the	shore of Ge	eorgian Ba	y that they may be		
	NTS: 41 H, parts of 31 D,E							
860035* (3531)	Geology of the Chapleau and Groundhog River Blocks	Percival, JA	LCS	-	SG	Ont		
	Obj: To improve the geological data base zone and region to the west. To dete	of a portion of the Chaple ermine the history of meta	eau and G morphism	roundhog Ri	iver blocks ics. To co	of the Kapuskasing prrelate the geology		

Obj: To improve the geological data base of a portion of the Chapleau and Groundhog River blocks of the Kapuskasing zone and region to the west. To determine the history of metamorphism and tectonics. To correlate the geology with adjacent regions. To determine mineral potential within the region.

NTS: 42 B

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
700018 (3532)	Paleomagnetism and rock magnetism instrumentation and technological development	Christie, KW	LCS	-	PMag	Ont		
	<ol> <li>Obj: To contribute to the development of paleomagnetism as a geophysical method:         <ol> <li>by designing, building, testing and calibrating instrumentation required for the measurement of magnetic properties of rocks and minerals;</li> <li>by developing new techniques or systems for the routine measurement of magnetic parameters of standard samples and for the processing of data resulting from such measurements; and</li> <li>by improving on the design of existing instrumentation or techniques inorder to improve the efficiency of the laboratory and/or the quality of the data emanating from the laboratory.</li> </ol> </li> </ol>							
800013 (3532)	Vertical Movements of the Precambrian Shield	Buchan, KL	LCS	-	PMag	Ont Que		
	Obj: To determine vertical movements for structural provinces in the Precambrian Shield from remanent magnetism. The method is quantitative and would allow estimating the net amount of uplift or tilting of the Shield since the Archean.							
	NTS: 23; 24; 34 C							
820005* (3532)	Paleomagnetism of Nipissing diabase and Abitibi dykes.	Buchan, KL	LCS	-	PMag	Ont Que		
Obj: To study the magnetic characteristics of the Nipissing diabase and Abitibi dykes and the rocks which they int in order to establish the relative ages of observed paleomagnetic components.								
	NTS: 31; 32; 41; 42							
830006* (3532)	Isotopic age determinations and radiogenic trace element studies of rocks and minerals	van Breemen, O	LCS	-	G	Mack		
	Obj: To precisely establish the chronological order of rocks and events. To apply radiogenic isotope tracer studies to the characterization of rock units in order to further extend the criteria for mapping and to determine the origin of rocks. To aid in the search for economic deposits. To remain at the forefront of geochronological research.							
	NTS: 75 E,O,P; 76 A,B							
830014* (3532)	Metamorphic Processes in the Kisseynew Sedimentary Gneiss Belt	Gordon, TM	LCS	-	PET	Man Sask		
	Obj: To determine the pressure-tempera models.	ature history of selected ar	eas in the	belt for com	nparison wi	ith modern tectonic		
	NTS: <u>63</u> J,K, <u>N,O</u> ; <u>66</u> A, <u>B,C</u> ,D							
850007* (3532)	Paleomagnetism of the Appalachian orogen of Eastern Canada	Buchan, K	LCS	-	PMag	Nfld NB NS Que		
	Obj: To test models of the evolution of	Appalachian terranes of Ea	stern Nort	h America o	during the	Paleozoic.		
	NTS: Pts 1; <u>2</u> ; 11; <u>12</u> ; 21; 22							
720080 (3533)	Interpretation of aeromagnetic surveys	Kornik, LJ	LCS	-	LG	-		
	Obj: To express the significance of aero support of mineral exploration, geo information with other types of geo	logical mapping and nuclea	lithologic ir fuel was	al structura te disposal p	l and meta programs a	morphic patterns in nd to integrate this		
830026* (3533)	Geophysical Interpretation Abitibi Belt	Schwarz, EJ	LCS	~	LG	Ont Que		
	Obj: 1. To deduce the general (deep) cr 2. To interpret these data in term extent of known zones or contact	ms of intra-belt structures	s with par	ticular atte	cal and geontion to the	ological data. he continuation and		
	NTS: <u>32; 42; 52</u>							
840037	Magnetic Interpretation Techniques	Broome, HJ	LCS	LG	AI	-		
(3533)	Obj: To develop new qualitative and que well as the refinement, compilation	antitative methods for the n and documentation of exi	e geologica sting meth	al interpreta ods.	ation of ae	eromagnetic data as		

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
840057* (3533)	Selected contract geophysical surveys in E. Townships, Quebec	Schwarz, EJ	LCS	LG	AI	Que		
	Obj: To stimulate mining exploration placers (Au) and river channels by	by geophysical surveys. magnetic survey with part	To investig	gate the pence to Cha	ossibility ( audiere Riv	of detecting buried ver Valley Deposits.		
	NTS: 21; 31							
840087* (3533)	Geophysical Interpretation — Precambrian	McGrath, PH	LCS	-	LG	Ont Mack		
	Obj: To use geophysical data to enhance knowledge of the regional aspects of the Precambrian crust with an emphasis on its third dimension.							
	NTS: 41; 42; <u>75 0</u>							
Atlantic	Geoscience Division							
730072* (3541)	Bedrock and surficial geology- Grand Banks	Fader, GB	AGC	RR	SBG	Atlantic Offshore		
	Obj: To contribute to our knowledge a broad tectonic setting of the Gran	and understanding of the said Banks; and to aid in the	urface and s economic ev	ubsurface aluation of	geology, go the region	eologic history, and		
	NTS: 1; 2; 11							
730081 (3541)	East coast potential fields	Macnab, RF	AGC	RR	GPS	Atlantic Offshore		
	Obj: To acquire and compile potential support of investigations in vario energy; and LOS issues.							
760015 (3541)	Eastern Baffin Island shelf bedrock and surficial geology mapping program	MacLean, B	AGC	RR	EAOG	Arctic Offshore		
	Obj: To investigate and map the geology and near surface structure of the rocks occurring at the pre-Pleistocene unconformity on the eastern Baffin Island shelf and adjoining areas. To obtain geophysical data to put bedrock and surficial data in a regional context and to check the validity of geophysical interpretation against bedrock sample data. To investigate the distribution and geological history of the unconsolidated sediments on the eastern Baffin Island shelf and adjoining shelf areas.							
	NTS: Pts 15; 16; 17; 25; 26; 27; 28; 38							
780042 (3541)	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 struct 2. To determine the transition fr 3. To discuss the subsidence hist structures.	om the continental to ocea	nic crust acr	oss the ma		it to the subsurface		
780049 (3541)	Arctic Ocean: Seismic Refraction and Related Geophysical Measurements	Jackson, HR	AGC	RR	OBM	-		
	Obj: To collect seismic refraction, ref both a regional and global scale to 1. a tectonic history of the Arcti 2. a model for development of sl Baffin Bay and the Labrador S 3. a crustal cross-section of the 1	o provide: c; ow spreading ridges and re ea; and	elationship to	o other spre	eading cen	tres such as those in		
800034 (3541)	Rift Processes and the Development of Passive Continental Margins	Keen, CE	AGC	RR	~	Atlantic Offshore Arctic Offshore		
	Obj: To investigate consequences (i.e anomalies) of various processes intrusion, erosion and phase chan observations which can be comp observations and hopefully will lead	perhaps responsible for iges in the lower crust. Mared to real data. This	initial riftin odels of the allows elimi	g. These processes nation of	processes allow pred models wi	include extension, ictions of the above		

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
800035* (3541)	Seismic studies of continental margins and ocean basins of the North Atlantic	Reid, I	AGC	RR	ОВМ	Atlantic Offshore			
	Obj: To study the deep crustal structure of passive continental margins. To combine seismic with other geological and geophysical data to infer the detailed geology across the ocean/continent boundary. By application to a variety of margins, to relate the geological structure to models of continental margin evolution.								
810031 (3541)	Evaluation of KSS-30 Sea Gravimeter	Loncarevic, BD	AGC	RR	OBM	Atlantic Offshore			
	Obj: To acquire, field test, and implement	t operational use of the new	v sea grav	imeter (Mo	del KSS-30	0).			
810037* (3541)	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; 15; 25								
810045 (3541)	An Earth Science Atlas of the Continental Margin of Eastern Canada	Srivastava, SP	AGC	RR	EAOG	-			
	Obj: To provide a means of releasing information generated or compiled by AGC in a standardized form suitable for regional studies.								
820003 (3541)	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.								
830002 (3541)	Seismicity Studies of the Eastern Canadian Margin	Reid, I	AGC	RR	OBM	Atlantic Offshore Arctic Offshore			
	Obj: To investigate the detailed microseismicity of the passive margin: the level of activity, its spatial and temporal distribution, source mechanisms. This will allow better estimates of lithospheric stress distribution and strain rates, and may tell us something about margin evolution as well as the causative mechanism, be it deglaciation or something else. Knowledge of and understanding the seismicity on the continental margin is of course particularly important in view of possible seismic hazard to offshore hydrocarbon activity.								
840015 (3541)	Seabed II	Manchester, KS	AGC	PS	-	Atlantic Offshore			
	Obj: To develop with Huntec '70 Limited, deep-towed high resolution seismic a continental shelf and deep ocean dep	nd sidescan, geological and							
840017 (3541)	A.O.D.P. Site Survey, Labrador Sea	Srivastava, SP	AGC	RR	EAOG	Atlantic Offshore			
	Obj: To carry out detailed surveys over p and refraction, coring and heatflow r as possible the bathymetry, basementhese proposed sites.	neasurements. The purpos	e of this s	urvey woul	d be to ma	p in as much detail			
840036 (3541)	Seismic Systems Development	Nichols, B	AGC	RR	OBM	Atlantic Offshore			
	Obj: To coordinate the procurement, de processing of seismic data.	sign, construction, and im	plementa	tion of sys	stems for	the acquisition and			
840056 (3541)	Potential Fields Data Base Operations	Shih, KH	AGC	RR	GPS	-			
	Obj: 1. Prepare data for national marine 2. Develop and maintain software for 3. Prepare data for publication.								

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
840085* (3541)	Seismic Refraction along the Canadian Polar Margin	Jackson, RH	AGC	RR	ОВМ	Arctic Offshore			
	<ol> <li>Crustal cross-sections of the c</li> </ol>	<ul> <li>Obj: To collect seismic refraction data on the continental margin of Northern Canada to provide:</li> <li>1. Crustal cross-sections of the continental margin to understand its development.</li> <li>2. Sedimentary thickness and basement structural constraints in order to evaluate petroleum potential of the region.</li> </ul>							
850020* (3541)	CIGAL – Computer Integrated Geophysi Acquisition and Logging	ical Loncarevic, BD	AGC	RR	-	-			
	Obj: To replace BIODAL with a state-of	of-the-art Data logging device	e.						
850022 (3541)	Analysis of Marine and Satellite Gravity and Geoidal Data	Woodside, J	AGC	RR	-	-			
	Obj: 1. Analysis of long wavelength c of structure and isostatic response. 2. Improve expertise and analytic	onse of the lithosphere.							
850069* (3541)	Marine gravity investigation of an intrusion in the Gulf of St. Lawrence	Loncarevic, BD	AGC	RR	ОВМ	Que			
	Obj: To undertake marine gravity inverses assist in the interpretation of the		r gravity a	nomaly in t	the vicinity	of Sept-Iles and to			
	NTS: <u>22 J</u>								
850070 (3541)	Regional Geologic and Plate Tectonic History of the Canadian Appalachians	Stockmal, G	AGC	RR	-	-			
	Obj: To reconstruct and place bounds on the large-scale plate tectonic evolution of the Canadian Appalachians in light of new data (e.g., deep seismic reflection lines) and our current understanding of tectonic processes.								
860014* (3541)	Marine deep seismic reflection studies – offshore E. Canada	Keen, CE	AGC	RR	OBM	-			
	Obj: To acquire and interpret deep m Canada and within contiguous ma scientific benefit is to allow a mo extensional basins, margins, crator	arine regions such as the G re complete understanding o	ulf of St. f the struc	Lawrence ture at dep	and Hudso th, and he	n Bay. The major nce the evolution of			
860027 (3541)	Ocean Drilling Program in the Labrador Sea and Baffin Bay	Srivastava, SP	AGC	RR	EAOG	-			
	Obj: To understand the paleocirculation regions a set of holes is planned to as part of Leg 105 of the Ocean team of scientists on board and af	o be drilled in these regions Drilling Program. The resu	during the	months of from the	Septembe se holes w	er and October 1985 ill be analysed by a			
700092* (3542)	Surficial geology and geomorphology, Mackenzie Bay — Continental Shelf	Blasco, SM	AGC	EMG	SG	Arctic Offshore			
	Obj: To resolve the stratigraphic and structural relationships of the unconsolidated surficial marine sediments of the Beaufort continental shelf to provide the geological framework necessary for: the delineation of permafrost; the assessment of offshore aggregate supplies; the establishment of engineering design criteria for offshore structures for petroleum exploration and production; the resolution of the Quaternary history of the shelf area; the identification of sedimentary and geomorphic processes operating on the shelf; and to continue development of the technology necessary to conduct surficial marine geological surveys in ice covered areas of the arctic and in shallow coastal waters.								
	NTS: <u>87; 97; 107; 117</u>								
750043* (3542)	Consulting advice on physical environmental problems in the coastal zone	Taylor, RB	AGC	EMG	SG	Nfld <u>NS NB</u>			
	Obj: To provide consultation and expe advice is to be provided in respons		olems in t	he coastal	zone of th	ne Maritimes. This			
	NTS: 10 N; 11 D,K; 21 H,P								

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
780021 (3542)	Landsat Calibration for Suspended Sediment Concentration in Marine Coastal Environments	Amos, CL	AGC	EMG	SG	-			
	<ol> <li>Obj: 1. To initiate cooperative research between A.G.C., C.C.R.S. and other marine agencies abroad, with a view to extending a calibration of Landsat radiance vs. suspended sediment concentration. Originally applied to the Minas Basin.</li> <li>To extend the Minas Basin calibration.</li> <li>To relate the available Seasat program to Landsat measures.</li> </ol>								
780022 (3542)	Sediment Dynamics at the Head of the Bay of Fundy	Amos, CL	AGC	EMG	SG	NS NB			
	<ol> <li>Obj: 1. To determine the mass input, transfer and removal of sediments to Chignecto Bay, inclusive of Shepody Bay and Cumberland Basin.</li> <li>To develop a numerical model to assess the affects of a Fundy Tidal Power Development on the distribution and accretion of sediments.</li> <li>To formulate a methodology of assessing the implications of marine constructions on sediments in macrotidal regions.</li> </ol> NTS: 21: 11								
790018 (3542)	Ice Scouring of Continental Shelves	Lewis, CFM	AGC	EMG	SG	Atlantic Offshore			
	Obj: To investigate the geomorphology and sedimentology of ice scour tracks and their relationship to bathymetry, geology, oceanography and drift ice with a view to interpreting the dynamics and history of ice impacts on the seabed in order to provide advice for resource management.								
790019 (3542)	Environmental Geology of Deep Ocean	Buckley, DE	AGC	EMG	G	Atlantic Offshore			
	<ul> <li>Obj: 1. To investigate the capacity of the deep ocean sediments to maintain normal processes and environmental quality under conditions of stress imposed by waste disposal practices and resource exploration and exploitation.</li> <li>2. To participate in the Seabed Working Group of NEA in order to maintan awareness of progress in feasibility studies for the disposal of high level nuclear waste in the seabed.</li> <li>3. To participate in studies of the environmental effects of deep ocean mining.</li> </ul>								
800015 (3542)	Coastal Morphology and Sediment Dynamics, Southeast and East Cape Breton Island, N.S.	Taylor, RB	AGC	SG	CGD	NS			
	characteristics and to docu mental conditions.		different a	aspect, geo n-nearshore	logical se morphol	logy and sediment			
200020*	NTS: 11 F,G,K	Calada C	1.00	EHC	n	0			
800020* (3542)	The Recent Paleoclimatic and Paleoecologic Records in Fjord Sedim	Schafer, CT ments	AGC	EMG	Р	Que BC			
	Obj: To relate documented climatic record in unbioturbated fjord so view to the development of pre-	ediments recovered from dist	inctive clir	natic regin	nes throug				
	NTS: <u>22</u> ; 2; 3; 11; 12								
800036* (3542)	Stability and Transport of Sediments on Continental Shelves	Amos, CL	AGC	EMG	SG	Atlantic Offshore			

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
810036* (3542)	Morphology, sedimentology, and dynamics of Newfoundland coast	Forbes, DL	AGC	EMG	SG	Nfld			
	<ol> <li>To describe and interpret the geomorphology, sedimentary materials, and stability of the Newfoundland coast, with attention to problems of coastal resource management and oil-spill contingency planning.</li> <li>To investigate the sedimentary facies and physical processes characteristic of selected coastal types and, in particular, of gravel barrier and associated lagoon systems, for which little information is available.</li> </ol>								
	NTS: 1 K,L,M,N; 2 C,D,E,F,M; 11 O,P; 12 A,B,G,H,I,M,P								
810041 (3542)	The physical behaviour of suspended particulate matter (spm) in natural aqueous environments	Syvitski, JPM	AGC	EMG	SG	Atlantic Offshore Arctic Offshore Pacific Offshore			
	Obj: To discover the physical forms and for a variety of environments.	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								
810042*	Sedimentology of Fjords	Syvitski, JPM	AGC	EMG	SG	Que <u>Frank</u>			
(3542)	Obj: To complete a comprehensive study on the climatology, hydrography, physical oceanography, sediment dynamics, sedimentological history, and animal sediment relationships of west coast fjords (completion of previous NSERC project) and Arctic fjords.								
	NTS: 22								
810047* (3542)	Quaternary geologic processes on Continental slopes	Piper, DJW	AGC	EMG	-	Atlantic Offshore			
	Obj: To determine why different area morphology and surficial geology; paleo-environmental configurations and slope stability and the flux of s	to relate this variability s; and to thus develop predi	to conte	emporary as subsurface	nd Pleisto surficial s	cene processes and			
820044* (3542)	Quantitative Quaternary Paleoecology, Eastern Canada	Mudie, PJ	AGC	EMG	P	Atlantic Offshore			
	Obj: 1. To quantify the relationship between present microfossil assemblages and the climate/oceanography of the								
	eastern Canadian margins.  2. To apply these quantitative data to analysis of past climatic and oceanographic conditions, e.g. Quaternary								
	glacial-interglacial cycles.  3. To correlate the E. Canadian printeraction during the Quaterna		relate the	em to mode	els of globa	al ocean-atmosphere			
820046* (3542)	Sediment Dynamics and Depositional Processes in the Coastal Zone	Forbes, DL	AGC	EMG	SD	NS NB PEI Alta BC			
	Obj: To further our understanding of the zone; of the sedimentology of sedimentary systems.	ne dynamics of sediment er coastal deposits; and of l	ntrainmen long-term	t, transport trends in	the deve	osition in the coastal elopment of coastal			
820050* (3542)	Near-Surface Geology of the Arctic Island Channels (NOGAP)	MacLean, B	AGC	EMG	-	Arctic Offshore			
	Obj: Through an integrated geological,	geophysical and geotechni	ical resea	rch progran	n to inves	tigate and report on			

seabed geology of the Arctic island Channels, the nature and severity of geological constraints to development and contribute to development of technology related to these studies. Objectives include determination of:

1. Surficial sediment textures, distribution, thickness, geotechnical properties and other parameters in sufficiently many and varied areas as to have predictive capability elsewhere;

- Litho-, bio- and chronostratigraphy of surficial sediments;
   Principal contemporary sediment dispersal or modifying processes, e.g. ice scour, winnowing, slumping, faulting, permafrost;
- 4. Nature of near surface bedrock;
- 5. History of events and evolution of the channels;
- 6. Technology development for geoscience studies in ice covered waters.

NTS: 48 B-F; 58 A-G; 59 A-D; 68 A-H; 69 A-D; 78 H; 79 A-D

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
830001* (3542)	Permafrost Processes in Arctic Beaches	Taylor, RB	AGC	EMG	SG	Frank			
	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.								
	NTS: <u>59 B,C; 69 A,D</u>								
830007*	Beaufort Sea Coast	Forbes, DL	AGC	EMG	SG	Yk Mack			
(3542)	<ol> <li>To determine and map the physical characteristics of the Beaufort Sea Coast.</li> <li>To assess processes, sedimentary styles and rates of change in this distinctive coastal environment.</li> <li>To assess the response of coastal systems in the Beaufort Sea to industrial activities such as aggregate extraction, and to provide a sound scientific foundation for regulatory practices and contingency planning in the Beaufort Sea coastal zone.</li> </ol>								
	NTS: 97 C,F; 107 B,C,D,E; 117 A,C,D								
830045 (3542)	Quaternary Biostratigraphic Methods for Marine Sediments	Vilks, G	AGC	EMG	P	Arctic Offshore Atlantic Offshore			
	<ol> <li>Obj: 1. Develop foraminiferal biostratigraphy to establish relative ages of Quaternary marine sediments, particularly off eastern and Arctic Canada.</li> <li>Integrate biostratigraphy with independent dating through C<sup>14</sup>, O<sup>18</sup> and amino acid analyses and paleomagnetic profiles of sediments.</li> <li>Provide paleontologic sediment dating services to other Quaternary projects whenever appropriate.</li> </ol>								
830055* (3542)	Facies Models of Modern Turbidites	Piper, DJW	AGC	EMG	-	Atlantic Offshore			
	Obj: To contribute information on moder water sediments, in particular establishments and deep sea fans.	n turbidite to OERD-ISPG plishing the relationship b	project etween n	on facies inesotopogra	models for aphy and s	reservoirs in deep ediment facies in			
830056* (3542)	Engineering Geology of the Atlantic Shelf	Parrott, R	AGC	EMG	SG	Atlantic Offshore			
	Obj: To assess the nature of seabed inst especially Hibernia and Sable Island r		onstraints	to develo	pment on t	the Atlantic Shelf,			
	NTS: 1; 2; 3; 11; 14; 15								
830057* (3542)	Temporal and Spatial Variation of Deep Ocean Currents in the Western Labrador Sea	Schafer, CT	AGC	EMG	P	Atlantic Offshore			
	Obj: To trace the axis of the Labrador Sea inferred from high resolution acoust. Tertiary sediments using reflection Protolabrador Sea Basin.	ic methods. To map the p	aleoposit	ion of deep	ocean cur	rents pathways in			
840086* (3542)	Ice Island Sampling and Investigation of Sediments (ISIS)	Mudie, PJ	AGC	EMG	P	Arctic Offshore			
	Obi: 1. To determine the spatial distri	bution of microfossils. s	ediment	texture.	mineralogy	and geotechnical			

- Obj: 1. To determine the spatial distribution of microfossils, sediment texture, mineralogy and geotechnical properties of the sediment cover on the continental margin of Canada Basin.

  2. To define, map and interpret surficial lithofacies on this margin where conditions are probably analogous to

  - glacial stage environments off Eastern Canada.

    3. To conduct high resolution biostratigraphic and stable isotope studies of the High Arctic shelf sediments in areas of high sedimentation rates.
  - 4. To correlate paleoenvironmental data from the Canadian Basin Margin with CESAR data from the Central Arctic Ocean.
  - 5. To construct a quantitative sediment budget for the Arctic O. margin.

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
850021* (3542)	Marine Geotechnical studies of the Canadian Eastern and Arctic Continental Shelves and Slopes	Moran, K	AGC	EMG	SG	Atlantic Offshore		
	Obj: To determine the geotechnical and Continental Shelves for the determine the regional assessment of foundation the Quaternary history studies of the the continental margins.	nation of geologic constrain n conditions during the tim	nts to off ne frame o	shore and hof hydrocar	nydrocarbo bon develo	n development; for pment; for input to		
860026 <b>*</b> (3542)	Sedflux: On the transfer of sediment from land to the continental shelf	Syvitski, JPM	AGC	EMG	SG	-		
	<ol> <li>To determine the quantity and type of sediment transferred to the coast and then to the marine environment during the late Quaternary by selected rivers in Canada.</li> <li>To understand sediment capture and escape processes on the subaerial delta and prodelta environments, including the formation, preservation or destruction of placer deposits.</li> <li>To discern the effect (on 1&amp;2) of: (a) relative sea level fluctuations; (b) tidal or wave condition variations; (c) fluctuations in discharge conditions; and (d) increased ground accelerations through seismic events.</li> <li>To relate these input functions to delta morphology and architectural growth of sediment facies.</li> </ol>							
860030 (3542)	Computer based geological map compilations – Offshore Eastern Canada	Fader, GB	AGC	EMG	SG	Atlantic Offshore		
	Obj: To produce a computer-based series updating older published maps, relea formal maps, and consolidating inter-	sing compilation in a more	timely w	ay, facilita	iting the fi	uture production of		
500029 (3522) (3512) (3543)	Identification and biostrati- graphic interpretation of referred fossils	Norford, BS	ISPG C AGC	P MG EPG	-	NS Nfld NB Yk Mack BC Alta Pacific Offshore		
	Obj: By the study of fossils collected by and the general public, to provide ide of geological events. To describe in and biostratigraphy of Canada.	entifications and ages vital inportant fossils from these	to correla	ation of the	e host rock	s and to the dating		
	NTS: 95 B,C; 12 D; 103 G; 82 E,K; 83 C; 93	3 I						
680102* (3543)	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 and	nd regional changes in o gas, and evaluation of prop	rganic m perties of	etamorphis coking coa	m, with a ls.	pplication towards		
	NTS: 12; 21; 11 F,G,K; 20							
680109 (3543)	Palynological zonation of the Carboniferous and Permian rocks of Atlantic Provinces, Gulf of St. Lawrence and Northern Canada	Barss, MS	AGC	EPG	PGB	NS NB Nfld PEI Yk Mack Frank		
	Obj: To establish a comprehensive biostr reconstruct geological events and e sedimentological and geophysical sta Carboniferous basins for resource ev	cological environments, as udies, facilitating a detern	ssist othe	r discipline	s to carry	out stratigraphic,		
	NTS: 11 E; 1; 2; 11; 12; 95							
710059* (3543)	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 sedi margin and the basin; delineate composition, provenance, current paresource evaluation of this region.	distribution of clastic, c	arbonate,	evaporite	sequence	s, their thickness,		

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.	
710061 (3543)	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 study of t	the petroleum potential of	the Mago	dalen and Sy	dney basin	S.	
	NTS: 1; 2; 10; 11; 12; 14; 20						
710065 (3543)	Biostratigraphic zonation (Foraminifera-Ostracoda) of the Mesozoic and Cenozoic rocks of the Atlantic Shelf	Ascoli, P	AGC	EPG	SGBM	Atlantic Offshore	
	Obj: To determine the biostratigraphic zonation (Foraminifera and Ostracoda) of the Mesozoic and Cenozoic in offshore wells of the Atlantic Shelf, to form the basis of local, regional and world wide correlation, and to accurately reconstruct geological events and ecological environments, to aid in the economic evaluation of the region.						
720103* (3543)	Hydrocarbon inventory of the sedimentary basins of eastern Canada	Bell, JS	AGC	EPG	SGBM	Atlantic Offshore	
	Obj: To provide, in a timely manner, geological data related to the hydrocarbon inventory of the sedimentary basins of eastern Canada when requested to do so by the Executive Director, Petroleum Resources Appraisal secretariat.  To assist in the integration and interpretation of geological data used for resource evaluation.						
720104 (3543)	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 subsurface geological interpretation of the Atlantic continental margin of Canada as a basis for:  1. the Departmental Hydrocarbon Inventory;  2. to establish a framework for other specific studies such as lithostratigraphy, biostratigraphy, geochemistry, plate tectonics, etc.						
	NTS: 21 A,H						
740003 (3543)	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 and l	history of the sedimentary	basins in	the offshor	e regions o	f Eastern Canada.	
	NTS: 1-16; 27; 28; 38; 39						
770004* (3543)	Reconnaissance field study of the Mesozoic sequences out- cropping on the Iberian Peninsula	Jansa, L	AGC	EPG	SGBM	-	
	Obj: To provide evidence that the sedime beneath the Grand Banks.	ntary sequences of the Ibe	erian Pen	insula are c	o-eval with	n similar sequences	
770072 (3543)	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 operat				sts to the	e KPCRP Steering	
810032 (3543)	D.S.D.P. Dinoflagellates	Bujak, JP	AGC	EPG	-	Atlantic Offshore	
	Obj: Establish a dinoflagellate zonation s taxonomy where relevant. Correla						

taxonomy where relevant. Correlate and date this scheme relative to the standard plankton microfossil zonations and Circum-Atlantic onshore stratotypes. Determine stratigraphic-regional distribution of taxa and paleo-environmental/altitude significance of these distributions relative to the history of the Atlantic and related areas. Assess hydrocarbon source potential of sediments beneath the Atlantic using visual kerogen analysis techniques.

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
810033 (3543)	Biostratigraphy of the Atlantic Shelf and Relevant Areas	Fensome, RA	AGC	EPG	-	Atlantic Offshore		
	<ol> <li>Obj: 1. To analyze palynologically Capalynozonation and to furnish a offshore eastern Canada.</li> <li>To analyze palynologically Manadian east coast studies.</li> <li>To develop data bases, inclubiostratigraphic techniques.</li> </ol>	a detailed chronostratigraphi	ges from	ork for the	Mesozoic- vant areas	-Cenozoic strata of s as a control for		
810034* (3543)	Maturation Studies	Bell, JS	AGC	EPG	-	Atlantic Offshore		
	Obj: Determination of organic maturat the aim of establishing time/space				selected e	ast coast wells with		
810035 (3543)	Taxonomy, Phylogeny and Ecology of Palynomorphs	Fensome, RA	AGC	EPG	-	-		
	Obj: Taxonomy: To publish formal descriptions of palynomorph assemblages from offshore eastern Canada and other relevant areas. Phylogeny: To resolve and describe phylogenies amongst palynomorphs in order to improve knowledge of the biological groups concerned, their biostratigraphic resolution and their suprageneric classification. Ecology. To assess the paleoecology and plot provincialism of palynomorphs and thus aid the understanding of the paleoenvironmental history of the areas studied.							
820041 (3543)	Information Data Base, Offshore East Coast Wells	Williams, GL	AGC	EPG	-	Atlantic Offshore		
	Obj: To develop computer data base of wells. To use the data base for ha comparison of data and directing to	ndling queries by managemen	nt on resou	irces. To f	mation on acilitate r	offshore east coast esearch by allowing		
840039* (3543)	Evolution of east coast Paleozoic Basins	Bell, JS	AGC	EPG	PBG	NS NB PEI		
	<ul> <li>Obj: 1. To obtain an understanding of the sedimentation, tectonics and overall Paleozoic geological evolution of the offshore continental margins of eastern Canada.</li> <li>2. To incorporate new data as they become available.</li> <li>3. To use the data compilations and interpretations in resource evaluations of Paleozoic successions.</li> </ul>							
	NTS: 11; 20; 21							
840083 (3543)	Regional geology of the sedimentary basins of the continental margin of Newfoundland, Labrador and Baffin Bay	McAlpine, KD	AGC	EPG	-	-		
	Obj: To further our understanding of Newfoundland, Labrador and Baff basin; to generate the necessary d	in Bay; to develop maturati	ion models	to explair	the ther	basins of offshore mal history of each		
840084 (3543)	Interpretation of geophysical data from the Scotian Margin and adjacent areas as an aid to basin synthesis and estimation of hydrocarbon potential	MacLean, BC	AGC	EPG	-	-		
	Obj: To develop a structural and seisi Margin, as a means to an upda assessment.							
850055* (3543)	Quantitative stratigraphy in paleoceanography and petroleum basin analysis	Gradstein, FM	AGC	EPG	-	-		
	Obj: To develop new approaches to Que eastern Canada and contiguous ar		to apply t	his to the s	sedimentar	ry basins of offshore		
850056 (3543)	Regional geophysics of Mesozoic- Cenozoic of Baffin Bay-Labrador Margi	Bell, JS n	AGC	EPG	-	-		
	Obj: To develop an understanding of delineate oil and gas plays and pro with related disciplines to develop	ospects for input into the res	source app	ly on indu raisal progi	stry multi ram, and t	channel seismic, to o integrate the data		

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
850057 (3543)	Sedimentology of east coast formations	Cant, DJ	AGC	EPG	-	Atlantic Offshore			
	Obj: To study development and destruction of hydrocarbon reservoirs due to diagenetic and post diagenetic changes, and the role of source rocks and hydrocarbons in the development of these reservoirs.								
860005 (3543)	Basin Atlases – Offshore Eastern Canada	Bell, JS	AGC	EPG	-	Atlantic Offshore			
	Obj: To generate and compile the geological information necessary and then to publish basin atlases summarizing the geology of the offshore provinces of Eastern Canada. These basin atlases are intended to summarize present knowledge and provide an accessible overview and introduction for the resource industry and interested professionals.								
790036* (3544)	Sediment Dynamics Monitor (Ralph)	Heffler, DE	AGC	PS	-	Atlantic Offshore Arctic Offshore			
	Obj: To design, build and test an instrume few metres to 200 M for bottom dura		mics of s	ediments in	water dep	ths ranging from a			
820043* (3544)	Coastal Environments and Processes in the Canadian Arctic Archipelago	Taylor, RB	AGC	EMG	SG	Frank			
	Obj: To map and analyze the coastal environments of the Arctic Archipelago. To determine the frequency and magnitude of processes affecting coastline stability across the Arctic Islands. To provide information on the physical characteristics of shore types and the processes affecting coastal stability which will serve as background information for the evaluation of man's activities in the coastal zone and in case of an environmental emergency, e.g. oil spill.								
	NTS: 59 B,C; 69 A-D; 79 A-D	11 1 1 1 1 1 1 1 1	100	DC					
830003 (3544)	Development and Implementation of Cable Handling and Maintenance Procedure	Manchester, KS es	AGC	PS	-	-			
	Obj: 1. To investigate methods of cable handling and maintenance techniques known. 2. To develop a cable handling and maintenance program at AGC and implement it. 3. To acquire equipment necessary to efficiently carry out program. 4. To increase cable life by a factor of two or more, thereby saving money in the long run.								
830053*	Data Inventory	Hardy, I	AGC	PS	-	-			
(3544)	Obj: 1. To provide an inventory of all dat 2. To analyze existing forms of data 3. To compile information on the reports annually.	release and suggest new o	r improve tal and o	ed methods. offshore Ea	stern Cana	da and to prepare			
840038 (3540)	Ocean Drilling Program: planning	Ross, DI	AGC	-	-	Atlantic Offshore			
	Obj: 1. To contribute effectively to the r 2. To complete planning for drilling the Canadian Planning Committee	g in the Labrador Sea and	planning p possibly l	rocesses of Baffin Bay i	the Progra in 1985, und	m. der the auspices of			
840061 (3540)	Boundary disputes: St. Pierre and Miquelon; Beaufort Sea	Ross, DI	AGC	-	-	Atlantic Offshore Arctic Offshore			
	Obj: To manage investigations by AGC a effectively to advice from EMR to I involving the earth sciences, and hydrogeneous and sciences.	External concerning these	disputes i	n the perio	d 84/85 an	d 85/86 in matters			
Terrain S	Sciences Division								
570148	Radiocarbon dating program	Blake, W Jr	TS	-	Α	-			
(3551)	Obj: To plan and co-ordinate the radiocar	bon dating program of the	Geologic	al Survey.					
590457 (3551)	Radiocarbon laboratory development and operation	McNeely, RN	TS	QG	-	Ont			
	Obj: 1. To determine the age of carbona improving precision of existing to 2. To conduct research on variation to age determinations on fossil m	echniques; and to keep abre ns in the radiocarbon conte	east of cu	rrent resear	ch on new	techniques.			
	NITC. 21 C								

NTS: 31 G

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
650027*	Quaternary of southern Alberta	Stalker, AM	TS	QG	-	Alta Sask			
(3551)	Obj: To gain knowledge of Quaternary stratigraphy, chronology, environments and climates in southern Alberta.								
	NTS: <u>72</u> ; 73; <u>82</u> ; 83								
680031 (3551)	Quaternary stratigraphy of Old Crow Basin and Porcupine River Valleys	Hughes, OL	TS	QG	-	Yk Mack			
	Obj: Through investigation of Quaternary deposits and associated organic remains, to gain knowledge of the Quaternary stratigraphy and history of the region and to provide a geological framework for current vertebrate paleontology and archeology studies by National Museum scientists.								
	NTS: 106 E,F; 115 P; 116 I, N E½, O,P; 117	A							
690064* (3551)	Quaternary palynology	Mott, RJ	TS	QE	PEc	NS NB Que Nfld			
	Obj: To study the quaternary palynology of Canada and to provide a biostratigraphic and paleoecologic information service to other scientists within the Division, Branch, or Department as well as other Government Departments and agencies and non-government institutions.								
	NTS: 11 D,E,F,K,N,O; 20 P; 21 A,G,H,J,O;	12 A,B,H,I							
690065 (3551)	Surficial geology, St. Anthony- Blanc Sablon map-areas, Newfoundland	Grant, DR	TS	-	RP	Nfld			
	CURRENTAL MEGRAPHICAL INC.  CURRENTAL MEGRAPHICAL INC.  NOTE gas chemical mineral exploration and gas chemical mineral exploration.  Z. knowledge de Met graphy and environments including glaciation.	naternary deposits and land luding data applicable to tion surveys; and age of Quaternary feat a, deglaciation, local sea-le	forms in land investures and evel change	order to prontory surve l of histor ge.	ovide: eys, engine y of Quat	eering development,			
	NTS: 2 M; 12 P								
700056* (3551)	Surficial geology, Cape Breton Island, Nova Scotia	Grant, DR	TS	QG	-	NB <u>NS</u>			
	Obj: To map, describe and explain the sur 1. areal geological information w development and mineral explora 2. knowledge of the stratigraphy a environments including glaciation	ith particular reference tion; and nd age of Quaternary feat	to the tures and	needs for of the hist	data requ				
	NTS: <u>11</u> D,E, <u>F,K</u> ,N; 21 A,H								
710020* (3551)	Surficial geology and land classification, Mackenzie Valley Transportation Corridor	Hughes, OL	TS	QG	-	Mack Yk			
	Obj: To map, describe and explain the unconsolidated deposits, landforms, permafrost, ground ice, and organic (muskeg) cover of the Mackenzie Valley Transportation Corridor in order to:  1. provide areal knowledge of geology and terrain, bearing particularly in mind the needs of government for terrain information in connection with land use planning, pipeline proposals and other aspects of petroleum development, and engineering construction; and  2. determine the Quaternary history of the region.								
	NTS: 96 C,D-F; 106 G,H-K,L,M,N,O,P; 10	7 A; <u>97 C</u> ; 116 N,O,P; <u>95 N</u>	<u>A</u>						
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Quaternary sediments Obj: 1. To develop diatom analysis as a paleoecological tool in conjunction with palynological and plant megafossil

Federovich, S

analyses. 2. To provide paleoecological interpretation and biostratigraphic correlations of Recent and Quaternary sediments.

TS

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Frank

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NTS: 38; 39; 48; 49; 59; 340; 560; 41 I; 31 E

Diatom analysis and

paleoecological studies of

720078

(3551)

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
720081 (3551)	Surficial geology and geomorphology of Central Ellesmere Island	Hodgson, DA	TS	QG	•	Frank		
	permafrost conditions, wit	of surficial materials, landforms, g h particular reference to terrain i ulations and to the effects of the	nformati	on pertiner	nt to the i	implementation of		
	NTS: Pts 49 C,D,E,G,H; 340 B							
730019* (3551)	Light drilling and sampling research and support	Nixon, FM	TS	QG	~	Mack		
	Geotechnique with emphasi sampling technique and equ	vision requirements for subsurface s on light equipment and remote wo ipment in order to evaluate proposa procedures to be employed in Division	rk by (a) Is and su	maintainin; ggest possib	g an exper pilities, and	tise in drilling and (b) developing and		
	NTS: <u>107 C</u>							
730027 (3551)	Late Cenozoic fossil insects and Late Cenozoic paleoecology	Matthews, JV Jr	TS	QE	PEc	Ont Que Yk		
	Obj: To provide biostratigraphic and paleoecologic information on late Cenozoic terrestrial sediments as an aid to interpretation of their age and environment of deposition.							
NTS: 21 E,L; 31 G,H,I; 115 L; 116 J,K								
740065 (3551)	Surficial geology inventory, Banks Island	Vincent, J-S	TS	QG	-	Frank		
	<ul> <li>Obj: To map, describe and explain the unconsolidated deposits, landforms, permafrost, ground ice and organic cover, and undertake geomorphic process studies in order to provide areal knowledge of geology and terrain that will:</li> <li>1. aid in the implementation of the Territorial Land Use Regulations;</li> <li>2. be pertinent to engineering construction, petroleum exploration and related activities;</li> <li>3. provide data relative to terrain sensitivity rating; and</li> <li>4. elucidate the Quaternary history of the region.</li> </ul>							
	NTS: 88 B,C,D,F; 97 G,H; 98 A-F	-						
740067 (3551)	Surficial geology-terrain inventory, Bathurst-Cornwallis and eastern Melville Islands	Edlund, SA	TS	QE	PEc	Frank		
	Obj: Map, describe and explain the surface materials, landforms, ground ice and vegetation in order to provide areal knowledge of geology, geomorphology and terrain as background information suitable for land use management and various aspects of engineering construction and to determine the Quaternary history of the region.							
	NTS: 68 E-H; 69 A,B; 78 E-H; 79	А,В						
740068* (3551)	Surficial geology, Ottawa Valley lowlands	Richard, SH	TS	QG	-	Ont Que		
	Obj: To map, describe and explain the unconsolidated deposits and landforms of the Ottawa Valley lowlands (31 G, 31 F (parts of) and 31 B (parts of) in order to provide geology and terrain information pertinent to land use planning, agriculture, urban and industrial development, forestry and engineering construction and to determine the Quaternary history of the region.							
	NTS: Pts 31 B,C,F,G							
740072* (3551)	Surficial geology of Newfoundlan	d Grant, DR	TS	QG	-	Nfld		
(3331)	of geology and terrain as be granular deposits, commun	xplain the unconsolidated deposits a ackground information relative to la ity water-supply problems, forestry truction, and to determine the Quate	nd-use p y, urban	lanning, mi and industr	neral explo ial develor	ration, location of		
	NTS: 1 M; 2; Pts <u>11 O; 12</u> A, <u>B,G,</u>	H,I						

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
750063* (3551)	Quaternary geochronology, Arctic Islands	Blake, W Jr	TS	-	A	Frank		
	<ul> <li>Obj: 1. To establish a chronostratigraphi</li> <li>2. To investigate the suitability of of <sup>1</sup>*C.</li> </ul>							
	<ol> <li>To determine rates of crustal mo</li> <li>To reconstruct environments and</li> </ol>		ternary ti	me as possi	ble.			
	NTS: 25-28; 29 F,G; 35-37; 38 F,G; 39 B 340; 560	,С,Е-Н; 47; <u>48 Е,Н</u> ; <u>49 А,Е</u>	3,D,E,H;	57-59; 67-6	9; 77-79; 3	87-89; 97-99; 120;		
750072 (3551)	Quaternary geology, terrain inventory, northeastern Manitoba	Dredge, LA	TS	QG	-	Man		
	Obj: To map, describe and explain the unconsolidated deposits, landforms, permafrost, ground ice and organic cover in order to provide areal knowledge of geology and terrain as background information relative to land use planning and engineering construction, to provide data relative to terrain sensitivity rating and to determine the Quaternary history of the region.							
	NTS: 54 D,E,F,K,L,M; 64 I,J,K,L,M,N,O,P							
750076* (3551)	Quaternary geology of the Canadian Cordillera	Fulton, RJ	TS	QG	-	BC Yk Alta Mack		
	Obj: To gather and synthesize information regarding Quaternary deposits, stratigraphy, geomorphology and chronology of the Canadian Cordillera.							
	NTS: 82; 92; <u>93 B,G</u> ; 103; 105 M; 115 P							
760010* (3551)	Surficial geology, geomorphology and terrain inventory of the Ringnes and adjacent islands	Hodgson, DA	TS	QE	-	Frank		
	Obj: To map, describe and explain surfic base data necessary for land manage region.							
	NTS: 59 B,C,F; 69 A,C,D,E,F; <u>79 D</u> ,E; 68	G,H; 78 H; 88 G,H; 89 A,B						
760058* (3551)	Vegetation distribution and relationships to surficial materials and climatic patterns — Arctic region	Edlund, SA	TS	QE	PEc	Frank Mack Kee Yk Que Nfld		
	Obj: 1. To map and describe vegetation Arctic.	distribution and plant cor	mmunitie	s as they re	late to sel	ected areas of the		
	<ol> <li>To relate modern vegetation dist</li> <li>To derive data on Holocene ve analogue.</li> </ol>					relationships as an		
	NTS: <u>78 A,B,D; 77 G,H</u>							
770030* (3551)	Géologie du Quaternaire, région de l'Outaouais supérieur Québec	Veillette, JJ	TS	QE	-	Que Ont		
	Obj: Cartographier, décrire et expliquer 1. Fournir des données relatives à résérves d'eaux souterraines, à la 2. Determiner les propriétés physiq	l'utilisation du sol, à la pa a prospection géochimique.	rospection	et localisa				
	NTS: 31 M,L; <u>32 C,D,E,F</u>							
770031 (3551)	Surficial geology and terrain evaluation, southern Yukon	Klassen, RW	TS	QG	-	Yk BC		
	Obj: To map, describe and explain the data and knowledge of the stratigra for land-use planning and engineering	phy, age and history of sur						
	NTS: 94 M; 95 D; 104 P; 105 A-D,E,J,K,L	; 115 A,H,I; 114 P						

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
780017 (3551)	Correlation of Quaternary geology; Great Lakes — St. Lawrence Valley region	Gadd, NR	TS	QG	-	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								
780033* (3551)	Quaternary paleoecology, Great Lakes	Anderson, TW	TS	QE	PEc	Ont Que			
<ul> <li>Obj: To describe, analyze and explain unconsolidated deposits and associated organic remains in the Great Lakes order to:</li> <li>1. determine Quaternary stratigraphy, history and paleoecology;</li> <li>2. identify processes operative in the lakes during the Quaternary and the factors controlling them;</li> <li>3. to provide background geological information for other scientific studies in the Great Lakes.</li> </ul>									
	NTS: 21 E; 31 B,C-F,G-L; 41 H-K								
790005	Quaternary geology, Mayo-McQuesten	Hughes, OL	TS	QG	-	Yk			
(3551)	Obj: To map, describe and explain the surficial materials and landforms and to provide areal geologic-geomorphic data and knowledge of stratigraphy, age and history of surficial deposits to provide background information for land use planning, engineering and mineral development.  NTS: 105 M; 115 P; 116 B,C								
790027 (3551)	Quaternary stratigraphy Yarmouth region, Nova Scotia	Grant, DR	TS	QG	-	NS			
,,	Obj: To document the Quaternary stratigraphy of the southeast coast of Nova Scotia in the vicinity of Yarmouth.  NTS: 11 E,F; 21 H								
800019 (3551)	Surficial geology, Cobden area (Quebec part)	Fulton, RJ	TS	QG	-	Que			
	Obj: To map, describe and explain the (31 G 10) in order to provide g development and engineering cons	eology and terrain informa	ation pertin	ent to agri	culture,	urban and industrial			
	NTS: 31 G 10 (Quebec part)								
800024 (3551)	Quaternary geology-terrain inventory, northwestern Manitoba	Dredge, LA	TS	QG	-	Man			
	Obj: Map, describe and explain the s provide knowledge of stratigraphy to engineering construction and m	, age and Quaternary histo	dforms, the ory and area	rmal condit I geologic o	tions and data with	active processes to particular reference			
	NTS: 64 J,K,N,O								
810004 (3551)	Quaternary geology – terrain inventory, Frances Lake	Dyke, AS	TS	QG	-	Yk			
	Obj: To map, describe and explain the evolution of the area and to provi								
	NTS: 105 H								
810006* (3551)	Quaternary Geology, upper Fraser River Basin	Clague, JJ	TS	QG	-	BC.			
	Obj: To describe, map and establish th 1. reconstruct the upper Fraser deposits, 2. provide information pertinent 3. to determine the Quaternary h	River drainage developme to forestry, land-use planni	ent as an aid	d to explair	ning the d	•			
	NEC 03 L D C II								

NTS: <u>93 A</u>,B,G,H

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
810007 (3551)	Quaternary geology-terrain inventory, western Victoria Island	Vincent, JS	TS	QG	-	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; Pts	of 77 B,C,F,G; 78 B							
810023 (3551)	Quaternary geologic compilation (EG-1 revision)	Fulton, RJ	TS	QG	-	~			
	Obj: 1. Prepare a volume describing the 2. Prepare a map depicting the surf			of 1:5 000 0	000.				
810044* (3551)	Quaternary geology-terrain inventory, Prince of Wales Island, King William Island and adjacent mainland Keewatin	Dyke, AS	TS	QG	-	<u>Frank</u> Kee			
	Obj: To map, describe and explain the evolution of the area and to provide								
	NTS: 66 O,P; 57 B,C; 67 A,D,H; <u>68 A-D</u>								
830017 (3551)	Surficial geology, north- central District of Mackenzie	St-Onge, DA	TS	QG	~	Mack			
	Obj: To map, describe and explain the unconsolidated deposits, landforms, permafrost, ground ice and organic cover, and undertake geomorphic process studies of the NE% and part of NW% of 86°N in order to provide areal knowledge of geology and terrain that will:  1. elucidate the Quaternary history of the region;  2. aid in the implementation of the Territorial Land Use Regulations;  3. be pertinent to engineering construction, hydrocarbon transportation and related activities; and  4. provide data relative to terrain sensitivity rating.								
020010*	NTS: 86 F,G,H,I,J,K,N,O,P	Shares DD	TC	00		Evanle			
830018* (3551)	western Victoria Island	Sharpe, DR	TS	QG	-	Frank Ont Que			
	Obj: To complete a systematic study of composition, age, origin and history more detailed understanding of sed Island (eastwards). To compare land methods. To demonstrate application and environmental analysis.	of the Quaternary sedime liment-landforms for evaluation dform-sediment mapping te ion of these studies to land	ents and t ation and/ echniques	heir respect or mapping with reconr	tive landfo of adjace naissance a	orms. To develop a nt areas of Victoria and landsat mapping			
	NTS: 77 B,C,D,E,F; 67 B,C,F; Pts 87 A,B	,C,D,E,F; 31 C,D,G; 40 P; 4	1 A						
830019 (3551)	Quaternary stratigraphy of the Beaufort Coast, Yukon and District of Mackenzie	Vincent, JS	TS	QG	-	Mack Yk Frank			
	Obj: To confirm the lithostratigraphy of the extensive suite of Quaternary sediments exposed along the Beaufort Sea Coast. To collect further samples for sedimentological and paleoecological studies in order to understand depositional environments. To collect samples for geochronological studies in order to ascertain the age of the sediments. This will help elucidating the Quaternary history of the area, enable regional correlations to be made and provide essential information for the EG-1 compilation.								
	NTS: 97 I-P; 107 A-H; 117 A-H								
830023 <sup>-</sup> (3551)	Quaternary history and surficial materials of north- western Baffin Island	Dyke, AS	TS	QG	-	Frank			
	Obj: To map, describe, and explain the evolution of the area and to provide	e Quaternary deposits and e information relevant to la	landform nd-use pla	s in order anning and r	to underst nineral exp	and the Quaternary ploration.			
	NTS: 47 F,G; 48 B,C; 57 E,H; 58 A,D								

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
830024* (3551)	Quaternary geology, southwestern Saskatchewan	Klassen, RW	TS	QG	-	Sask Alta			
	Obj: To establish the Quaternary lithostratigraphy and to describe and map the surface deposits in order to: establish criteria for recognizing units of different ages occurring at the surface; determine the probable location and extent of potential aquifers; and outline the distribution of materials derived from different sources and deposited at different times. The data obtained are critical to understanding the distribution and nature of soil parent material, to resolving long-standing controversies about the extent of glaciation at different times and to further defining the Quaternary framework as an aid to future studies and mapping in southern Saskatchewan.								
	NTS: 72 F,G,J,K,E,L; 82 H								
840001 (3551)	Surficial geology inventory – area of Anderson River map area	Vincent, JS	TS	QG	-	Mack			
	Obj: To map, describe and explain the unconsolidated deposits, landforms, permafrost, 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;  3. provide data relative to terrain sensitivity rating; and  4. elucidate the Quaternary history of the region.								
	NTS: 97								
840002* (3551)	Surficial geology inventory — area south of Dolphin and Union Strait	St-Onge, DA	TS	QG	-	Mack			
	Obj: To map, describe and explain the undertake geomorphic process stud.  1. aid in the implementation of the constant of the	ies in order to provide areal e Territorial Land Use Regul struction; sensitivity rating; and	knowledge						
	NTS: 96 B, Pts 96 A,C; <u>87 A,B,C</u>								
840035* (3551)	Géologie du Quaternaire et géochimie des tills de la région Mont-Joli/La Rédemption, Québec	Veillette, JJ	TS	QG	-	Que			
	<ul> <li>Obj: 1. Cartographier les formations en 2. Déterminer la répartition, la transport des matériaux.</li> <li>3. A l'aide des résultats de lab minéralisation.</li> <li>NTS: Pts 22 A,B,C,G,H</li> </ul>	hiérarchie et l'infuence re	elative de	s divers éc					
850049* (3551)	Quaternary geology and geomorphology, northern Melville Peninsula	Dredge, LA	TS	QG	-	<u>Frank</u>			
	Obj: To map, describe and explain the processes in NTS 47 C in order to p 1. elucidate the Quaternary histor 2. provide information for minera to meet the need for Quaternar	rovide areal knowledge of go y of the region, and; Il development and land use	eology and planning.	terrain tha	t will: ct is part of	f a long term plan			
	NTS: <u>47 C</u>								
850051* (3551)	Echantillonnage des sédiments meubles, région de l'Ungava, Québec	Veillette, JJ	TS	QG	-	<u>Qué</u>			
	Obj: - Comptage de fragments rocheu - Déterminer le pouvoir tampon d - Relevé des indicateurs d'écoule - Fournir des données de base po du Canada.	des sédiments pour les pluies ment glaciaire.		ce secteur p	oar la Comi	mission géologique			
	NITC. OF KILLIAN OF D. C. 24 LT KILLIAN	IOD 25 ADODEEC							

NTS: 24 K,L,M,N; 25 D,E; 34 I,J,K,L,M,N,O,P; 35 A,B,C,D,E,F,G

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.				
860016* (3551)	Quaternary geology-terrain inventory, northeast Victoria Island and Stefansson Island	Hodgson, DA	TS	QG	-	Frank				
	Obj: Describe and explain surficial geology, with special attention paid to the last glacial stade and bracketing marine events. The source and age of the Viscount Melville Sound ice shelf should be established.									
	NTS: 78 A,C; B(E½)									
860017* (3551)	Quaternary geology of Lake of the Woods area, Ontario	Sharpe, DR	TS	QG	-	Ont				
	Obj: To supervise the systematic study map and report on the Quaternary a Federal/Provincial Mineral Devactivity in the mining industry.	geology and drift geoche	emistry of the	r <mark>egion</mark> ov	er a four ye	ar period as part of				
	NTS: <u>52 E,F</u>									
860020	Quaternary geology, Abitibi area, Quebe	ec Veillette, JJ	TS	QG	-	Que				
(3551)	Obj: 1. To integrate existing surficia "A" series.	l maps into one cohere	ent surficial ge	eology m	ap series a	t 1:1 000 000 scale,				
	<ol> <li>To extend mapping initiated in</li> <li>To provide maps and knowled This information is now serious</li> </ol>	ge of Quaternary geologically lacking.	gy in one of th	e most a	ctive minin	g camps in Canada.				
	<ol> <li>To complement surficial mapp of buried valleys and others investigation programs done by</li> </ol>	of potential interests to	o mineral expl	oration.	Junction	with the subsurface				
	NTS: 32 C,D,E,F									
860021* (3551)	Surficial mapping in Fort Coulonge area, Quebec	Kettles, I	TS	QG	-	Que				
	Obj: To complete a systematic study of the Quaternary geology to determine the character, composition, age, origin and history of the Quaternary sediments and their respective landforms that will aid in (a) interpretation of drift composition and provenance, and (b) interpreting sensitivity of surficial materials to acid rain.									
	NTS: Pts 31 F									
680017 (3552)	Sedimentology-engineering geology laboratory development and operation	Pelletier, BR	TS	QE	-	-				
	Obj: To standardize, develop, and/or bring into use various testing and/or analytical procedures available to the geoscientist; to develop new techniques and instrumentation; to ensure efficient operation of the sedimentology laboratories.									
680047* (3552)	Geomorphic processes, Mackenzie Valley-Arctic Coast	Heginbottom, JA	TS	TD	-	Mack				
	Obj: To investigate the processes involorder to understand better the pro	lved in the growth of per ocesses associated with t	mafrost and gr he past growth	ound ice of perma	under prese afrost in no	ent day conditions, in rthern Canada.				
	NTS: 96 B-F; 106 E,F,I,P; 116 I,N,P; Pts	97 B,C,D,E,F; 107 A,B,	C,D,E,; 117 A,	D						
690095* (3552)	Properties and provenance of glacial sediments	Shilts, WW	TS	-	SR	Que Ont Nfld NS <u>NB</u>				
	Obj: 1. To build a data bank comprisin	g chemical, petrologic,	and geotechnic	al proper	ties of till i	n Canada.				

To define till provenance regions based on data from objective 1.
 To clarify mechanisms and scale of glacial dispersal of rocks, minerals and trace elements.

- 4. To relate regional chemical and petrologic properties of till to engineering, geomedical, and biological problems that can be defined areally.
- 5. To develop and/or evaluate instrumentation and field techniques capable of providing information on thickness, character and properties of glacial sediments.
- 6. To derive from the record of lake bottom sediments information pertaining to late-glacial history, environmental changes and seismic events.

NTS: 11 E,F; 21 E,G,I,J,L,N,O,P; 22 A,B; 31 H; 42 A,E,H,I

( Talliber	*****								
730013 (3552)	Quaternary geology inventory – Southern Keewatin	Shilts, WW	TS	-	SR	Kee			
	<ol> <li>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'.</li> <li>To produce maps for open filing at scales of 1:125,000 based on 1:250,000 NTS sheets,</li> <li>To collect regional samples of till to describe its sedimentology, geotechnical properties, and geochemistry.</li> <li>To elucidate the history of the south and central portions of the Keewatin Ice Divide.</li> </ol>								
	NTS: 65 A-C,F-K,N-P; 55 D,E,F,L,K,N,O;	66 A-C,F-K,N-P; 56 D							
750074 (3552)	Uranium drift prospecting techniques, Lower Kazan River area	Klassen, RA	TS	QG	-	Kee			
	Obj: To study glacial and postglacial production and to investigate the use of till in many	cesses that can affect the nineral exploration for ura	geochemic nium and o	al propert ther metal	ies of till a s.	and other sediments			
	NTS: 55 M,N,L; 56 C,D; 65 P,I,O; 66 A								
770032 <sup>-</sup> (3552)	Geological characterization of Arctic lakes: sediment properties and sedimentary processes	Adshead, JD	TS	QG	-	Kee			
	Obj: To characterize Arctic lakes by providing a framework of mineralogical and compositional data on lake sediments and watersheds, and to evaluate postglacial sedimentation and diagenetic processes to assist 1) potential construction activities, 2) environmental impact studies, and 3) mineral exploration programs.								
	NTS: 66 A,H; 65 A,H,I,P; 55 E,F,M; 56 D,E	:,N,K							
770037 <sup>-</sup> (3552)	Slope processes and cryogenic movements, Arctic Islands	Heginbottom, JA	TS	TD	-	Frank			
	Obj: To document the nature, extent permafrost environment, and to de distribution, soil thermal and moistu	termine the importance	of surficia	l material	movements , geomorp	s in a high-arctic, hology, ground ice			
	NTS: 58 F,G; 68 G,H; 79 B								
780002* (3552)	Glacial erosion of the Canadian Shield	Kaszycki, CA	TS	QG	-	Kee Ont Que			
	Obj: 1. To define and summarize ways of 2. Define parameters that are most 3. To measure glacial erosion in sele. 4. To evaluate recently developed of	influential in controlling a ected test areas.	glacial eros	ion on the	Shield.	Shield.			
	NTS: 55 E,L,K; 41 I; 21 E,L; <u>31 D,E</u>								
780016* (3552)	Drift prospecting methods and models	DiLabio, RNW	TS	QG	-	Ont Que Nfld Man			
	Obj: 1. To model glacial dispersal from known sources. 2. To develop drift prospecting methods for use in clay belts.								
	NTS: 14 D; 24 A; 23 J; 32 C,D; 42 C; 64 B,C,F,G; 42 A; 31 L; 63 A,H; 53 F,K,L,N								
780018* (3552)	Surficial geology and Quaternary stratigraphy of north Baffin-Bylot Islands	Klassen, RA	TS	QG	-	Frank			
	Obj: To provide information on the history and mode of deposition and the distribution and origin of Quaternary sediments in the northern part of Baffin Island and of Bylot Island, for use by environmental and development groups that may require knowledge of the area, and to provide data applicable to drift prospecting techniques.								
	NTS: 38 B,C; 48 A,D								
780035 (3552)	Remote sensing applied to Quaternary geology and mineral tracing	Belanger, JR	TS	QG	-	Yk Kee Que Frank Mack Ont			
	Obj: To evaluate the potential use of re Quaternary geology and mineral trac Quaternary geology and related terr	cing. To apply appropriate	processing	technique	evaluation es for remo	n, terrain mapping, otely sensed data to			
	NTS: 66 M; 67 A-C; 87 A-F; 88 A-B; 21 E	; 31 G							

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Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
800001* (3552)	Quaternary geology and terrain inventory, Nahanni-Sheldon Lake-Finlayson Lake	Jackson, LE	TS	QG	-	Yk Mack			
	Obj: To map, describe and explain the Quaternary history with specific refe								
	NTS: 105 I,J(S½),G, <u>K,F</u>								
800027 (3552)	Sensitivity of surficial sediments to effects of acid precipitation	Kettles, IM	TS	QG	-	Ont Que NB			
	<ol> <li>To establish baseline data on natural variations of buffering capacities of surficial sediments, with respect to possible loading by acid precipitation in an area of predominantly non-carbonate bedrock.</li> <li>To establish magnitude of natural areal variation of chemical (trace and minor element) components that might be mobilized by loading by acid precipitation.</li> <li>To determine the extent that glacial dispersal has modified the physical and chemical properties of surficial sediments from those that would be expected based on bedrock lithologies alone.</li> </ol>								
	NTS: 31 B,C,D,E,F,G,K,L; 21 J,N,O; 41 A,E	-1							
810005 (3552)	Relationship of flood frequency and heavy metal uptake in growth rings of trees	Egginton, PA	TS	TD	GPEG	Ont Mack			
	Obj: To develop and evaluate a proxy method of determining flood frequency of rivers.								
	NTS: 31 F,K,L; 42 H,P				•				
810022 (3552)	Permafrost and ground ice map of Canada	Heginbottom, JA	TS	TD	-	Yk Mack			
	Obj: To compile a revised permafrost and ground ice map of Canada at a scale of 1:5M.								
	NTS: 106; 107; 116								
820038* (3552)	Comparison of geotechnical and geophysical properties of arctic seabed sediments	Kurfurst, PJ	TS	TD	GPEG	Mack Frank Yk			
	Obj: Development of analytical techniques sediments to be made from available hydrocarbon resources of the Beaufor	le geophysical data, for t							
	NTS: Pts 107 C; 117 D; 77 D								
820039* (3552)	Drift prospecting, east-central Labrador	Klassen, RA	TS	QG	~	Nfld			
	Obj: To develop methods for determining the source of uraniferous boulders contained within or associated with glacial deposits.								
	NTS: 13 E,F,K,L,N; 14 D,L,M								
83001 <i>5</i> (3552)	Engineering geology of Canada	Evans, SG	TS	DΤ	GPEG	-			
(3332)	Obj: To provide engineering geological ac of Canada. To interpret the engineer Canada with respect to slope failure hazards and/or engineering projects to	ring geological significance es or other natural hazards	and perf	ormance of semble selec	various ge	ological regions of			
830016* (3552)	Landslide hazard in the Canadian Cordillera	Evans, SG	TS	TD	GPEG	BC Alta Yk Mack			
	Obj: 1. To document the occurrence of la 2. To develop landslide mechanism n								
	NTS: 82; 83; <u>92;</u> 93; 94; <u>95;</u> 96; 102; 103; <u>1</u> 0	<u>04</u> ; 105; 106; 114; 115; 116;	117						
830022* (3552)	Periglacial processes, Canadian arctic	Egginton, PA	TS	TD	GPEG	Frank			
	Obj: 1. To evaluate the distribution and r 2. To assess, on the basis of long-to the terrain of periglacial processes 3. To provide a national basis for ev	erm observation and meas es.	urement	the charact					
	1177C 77 D								

NTS: <u>77 D</u>

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.				
830025* (3552)	Quaternary stratigraphy, northern Ontario Lowlands	Shilts, WW	TS	-	SR	Ont				
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Obj: 1. To provide a basis for interpret regions. 2. To provide a means for assess drift-covered area.	•	•			,				
	NTS: 53 G,H,I,J,P; 43 B,F,L,K,N; 54 A									
830028* (3552)	Properties and distribution of permafrost and ground ice	Heginbottom, JA	TS	TD	-	Mack Frank Yk BC Alta				
	dynamic performance when disturb	Obj: To provide information on the distribution, classification and properties of frozen soil and ground ice and their dynamic performance when disturbed.								
	NTS: 107 C; 96; 95; 85; 84; 94 J,K									
830052* (3552)	Norman Wells pipeline — performance monitoring	Harry, DG	TS	TD	GPEG	Mack Alta				
	Obj: To examine the actual impact of the construction and initial operation of the proposed Norman Wells Pipe upon the geological environment of the upper Mackenzie Valley; to assess the accuracy of predictions of impade during the assessment review phase for the pipeline; and to assess the quality of the surficial geology terrain sensitivity maps of the upper Mackenzie Valley.									
	NTS: Pts of <u>84</u> ; 85; <u>94</u> ; <u>95</u> ; <u>96</u>									
840014* (3552)	Characterization of ground ice occurrence in northern Canada	Harry, DG	TS	TD	GPEG	Mack Frank Yk				
	Obj: To develop an understanding of the characteristic forms and quantities of ground ice developed in a range of geomorphic and geological settings and to develop models for the better prediction of ground ice conditions and terrain performance in the permafrost regions of Canada.									
	NTS: 107; 117 pts									
850008* (3552)	Geological and geotechnical conditions, Beaufort Sea coastal zone	Dallimore, SR	TS	TD	GPEG	Mack Yk				
	Obj: To provide geological and geotech including information on the surf permafrost and ground ice condit development, sitting, design and condended beaufort Sea region.	ace deposits and landform tions; and active geomorph	ns; the su hological	ibsurface g processes, :	eological r so as to a	materials, including ssist in the orderly				
	NTS: Pts 107, 117									
860012*	Glaciology Section, PCSP	Koerner, RM	TS	QE	G	Frank				
(3552)	Obj: This project will record expendit transferred from PCSP.	ures on scientific activiti	es carried	d out by th	e glaciolo	gy section recently				
720102 (3550)	Marine Science Atlas of the Beaufort Sea	Pelletier, BR	TS	QE	-	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								
780026 (3550)	Quaternary paleo-sealevel map of Canada	Pelletier, BR	TS	QE	-	-				
	Obj: To produce a synthesis of sealevel	phenomena for the Quaterr	nary period	l <b>.</b>						
Geophysi	ics Division									
650007*	Ocean aeromagnetics	Bower, ME	G	A	-	Arctic Offshore				
(3567)	Obj: 1. To contribute to the developme 2. To obtain aeromagnetic data fo 3. To investigate the validity of spreading and continental drift. 4. To delineate sedimentary basin	or the Magnetic Anomaly M theories postulating the	ap of Nort magnetic	h America. imprinting	of oceanic	: rocks, ocean floor				

Number	Title	Leader	Div.	Subdiv.	Sec.	Prov.	
680081* (3567)	High resolution aeromagnetics (experimental surveys)	Olson, DG	G	A	-	Ont	
	gradiometer surveys, over	to prescribed specifications, high areas selected and defined by manage tem in different geological contexts.					
	NTS: 40 O,P; 41 A,G,H,J,K; 31 E	2					
760065 (3567)	Digital Compilation of Queenair Aeromagnetic Data	Anderson, KW	G	A	GDP	-	
	survey operations.  2. Improve modes of operations.	cation of aeromagnetic contour map ations and presentations of the above nk of data described above for ready	data as ne	ew comput	er facilitie	es develop.	
770015 <b>(3567)</b>	High Resolution Aeromagnetics (Instrumentation Development)	Sawatzky, P	G	A	-	-	
		nce of the GSC experimental high rebility, efficiency and endurance.	esolution/	gradiomete	er survey s	system, in terms of	
820024	Magnetic Anomaly Maps of Cana	ada Dods, SD	G	A	GDP	_	
(3567)	the Geological Survey of 2. To produce a 5th edition	n of a 1:5,000,000 composite magnetie magnetie magnetic anomaly map of North Am	c anomaly	/ map of C	anada (125	55A).	
820027 (3567)	Development of Regional Geoph Data Processing and Interpretati		G	A	GDP	-	
		equired, techniques for compilation, one utility of the data for regional map		d interpre	tation of a	irborne geophysica	
840040 (3567)	Aeromagnetic Survey Contract: Northwestern Baffin Island	Ready, EE	G	A	CS	Frank	
	stimulation to mineral exp The contract entails the	omagnetic coverage of the above a loration in the area. acquisition and compilation of appr agnetic data extending over approxima	oximately	64,000 li	ne kms. o		
	NTS: 48 A,B,C,D; 58 A,D						
840065* (3567)	Aeromagnetic Gradiometer/VLF Contracted Survey – Manitoba (I		G	Α	CS	<u>Man</u>	
		c gradiometer/VLF EM surveys as a drift-covered areas and in support					
	NTS: Pts 63 J,K,N; 64 B,C; 52 E	,L,M					
840067 (3567)	Aeromagnetic Surveys, Digitizat Compilation of Existing Aeroma Contract: Juan de Fuca Strait t	gnetic Data	G	Α	CS	ВС	
	Obj: To provide a comprehensive aeromagnetic data base of the above area as an aid to exploration of the Pacifi Margin Basin. The contract entails the acquisition and compilation of approximately 27,000 line kms. of digitally-recorded medium sensitivity aeromagnetic data extending over approximately 60 1:50,000 map sheets a well as the digitization and adjustment of existing industrial aeromagnetic data amounting to 30,000 line kilometres approximately.						
	NTS: 92 C,D,E,F,L; 102 I,O,P; 1	03 A,B,C,F,G,J,K,L					
840068 (3 <i>5</i> 67)	Aeromagnetic Gradiometer/VLF Contracted Survey – Saskatchew (MDA 1984-89)		G	A	CS	Sask	
		c gradiometer/VLF EM surveys as a drift-covered areas and in support of					

NTS: Pts 63 K,L; 64 D, 74 A

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
840069 (3567)	Aeromagnetic Gradiometer/VLF EM Contracted Survey – Eastern Township – ORMENT INFORMATION	Ready, EE	G	A	CS	Que			
`	Obj: North Adam Bir tic gradiometer/VLF EM surveys as an aid to detailed geological mapping and mineral exploration especially in drift-covered areas and in support of the Federal Asbestos Initiatives Program.								
	NTS: Parts of 21E/4; 21E/11; Part of 21E/	4; Part of 31H/1; Pts 21 E;	31 H						
840070 (3567)	Aeromagnetic Gradiometer/VLF EM Contracted Survey - Gaspé Peninsula - Quebec Obj: To carry out aeromagnetic gradiome	Ready, EE	G aid to	A detailed gas	CS	Que			
	exploration especially in drift-covered Development Plan.								
	NTS: Pts 22 A,B,H								
840071* (3567)	Aeromagnetic Gradiometer/VLF EM Contracted Survey – New Brunswick (MDA 1984-89)	Ready, EE	G	Α	CS	<u>NB</u>			
	Obj: To carry out aeromagnetic gradiomo exploration especially in drift-covere Agreement 1984-1989.								
	NTS: Pts 21 J,O,P								
840072* (3567)	Aeromagnetic Gradiometer/VLF EM Contracted Survey – Nova Scotia (MDA 1984-89)	Ready, EE	G	A	CS	NS			
	Obj: To carry out aeromagnetic gradiome exploration especially in drift-cove Agreement 1984-1989.								
	NTS: Pts 20 P; 21 A,H; 11 D,E								
840073* (3567)	Aeromagnetic Gradiometer/VLF EM Contracted Survey — Newfoundland (MDA 1984-89)	Ready, EE	G	Α	CS	Nfld			
	Obj: To carry out aeromagnetic gradiome exploration especially in drift-covere Agreement 1984-89.								
	NTS: <u>Pts 12</u> A, <u>H</u> ; <u>2 E</u>								
840074 (3567)	Aeromagnetic Surveys: Beaufort Sea Northern Yukon Territory	Knappers, WA	G	Α	CS	Yk Frank			
	Obj: To carry out an aeromagnetic surv aeromagnetically surveyed in the Bea								
	NTS: Pts 107 B,C,D,E,F,G,H; 97 F,G; 117	B,C,D,E,F,G,Н							
850060 <b>(3567)</b>	Aeromagnetic Survey — Laurentian Channel	Knappers, WA	G	Α	CS	Nfld NS			
	Obj: To carry out a medium sensitivit Laurentian Channel and part of Cab order to provide data for the boundar	oot Strait, overlapping sou	omprising thern Ne	g approxim wfoundland	ately 7740 and easte	00 1/km over the ern Nova Scotia in			
	NTS: 1 E,K,L,M; 11 F,G,H,I,J,K,O,P								
850065 (3567)	East Newfoundland Shelf – Orphan Knoll	Knappers, WA	G	A	CS	Atlantic Offshore			
	Obj: To conduct digitally-recorded high 116,000 1/km for inner area on a co Ltd. and approximately 12,000 1/km	st sharing basis with 5 oil	compani	es headed l					

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
860013 <b>*</b> (3567)	Vancouver Island and British Columbia Coast	Knappers, WA	G	A	CS	ВС		
	Obj: To carry out a medium sensitivity aeromagnetic survey comprising approximately 37,000 1/km over part of Vancouver Island, Queen Charlotte Strait-Johnstone Strait-Strait of Georgia to the B.C. shoreline in order to provide digital data and total field contour maps for the MDA and A-Base programs.  NTS: 92 B,C,E,F,G,K,L,M							
860025*	Aeromagnetic Gradiometer/VLF EM	Ready, EE	G	A	CS	Ont		
(3567)	Contracted Survey – Western Ontario	Ready, LL	ď	71	C3	One		
	Obj: To carry out aeromagnetic gradiome exploration especially in drift-cover Agreement 1985-1990.	eter/VLF EM surveys as an red areas and in support	n aid to d of the	etailed geo Canada-Or	logical ma <sub>l</sub> stario Mine	oping and mineral eral Development		
	NTS: Pts 42 E; 52 C,E,F,H							
6.1.1.01	Operation of standard and regional seismograph stations	Halliday, RJ	G	-	S	-		
	Obj: To operate the Canadian Seismogra standards for the detection and locati					to international		
6.1.1.02	Maintenance of standard and regional stations	Thomas, JT	G	-	S	-		
	Obj: To maintain the facilities and instrumentation of the standard and regional stations of the Canadian Seismograph Network: to ensure that all instrumentation is calibrated at least once every five years and to close stations and establish new ones as program needs dictate.							
6.1.1.04	Operation and maintenance of digital telemetry networks	Thomas, JT	G	-	S	-		
	Obj: To operate and maintain the local and	l regional digital telemetry	seismic s	systems in e	eastern Can	ada.		
6.1.1.05	Field instrumentation maintenance and development	Trigg, DF	G	-	S	-		
	Obj: To ensure the availability of appropri and crustal structure experiments by new instrumentation as technology all	maintaining existing equi						
6.1.2.01	Management of standard and regional station data	Halliday, RJ	G	-	S	-		
	Obj: To ensure the preservation and disse from these stations and to ensure that				data and in	formation derived		
6.1.2.02	Management of data laboratory and analysis of digital station data	Lyons, JA	G	-	S	-		
	Obj: To ensure the preservation and diss ensure that its quality is to internation		gital seis	mological o	data and in	formation and to		
6.1.2.03	Development of machine-based systems for seismic data analysis	Lyons, JA	G	-	S	-		
	Obj: To develop and integrate into the retrieval of digital seismic data.	Data Lab new systems to	facilitat	e the dete	ction, anal	ysis, storage, and		
6.1.3.01	Determination of Canadian Seismicity	Wetmiller, RJ	G	-	S	-		
	Obj: To determine the focal parameters using all available data; and to dissem					ne degree possible		
6.1.3.05	Studies of Earthquake Precursory Phenomena	Buchbinder, GGR	G	-	S	-		
	Obj: To undertake the seismological expe geophysical phenomena in the Charle of earthquake prediction techniques t	voix zone of the St. Lawre	e Branch ence Valle	program o ey, as an as	f investiga sessment o	tion of precursory f the applicability		

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
6.1.3.08	Seismotectonics and seismic hazard on the eastern and northern continental margin	Adams, JE	G	-	S	-
	Obj: To determine the spatial and tempore eastern Arctic, to relate these to continental margin, and to assess development areas.	the structural, geological	and geop	hysical fea	tures of t	the ocean floor and
6.1.3.14	Physics of earthquake sources in eastern and northern Canada	Hasegawa, HS	G	-	S	-
	Obj: To employ results of research on the understanding of the earthquake pro-				d northern	Canada to improve
6.1.3.16	The Nahanni, Northwest Territories earthquake sequence	Wetmiller, RJ	G	-	S	-
	Obj: To analyze all data available for the the extent of the source volume, the the sequence; the macro-seismic e implications to seismic risk. To diss as possible.	e focal parameters of the frects; the surficial geolo	principal gical eff	shocks; the ects; the se	state of c	crustal stress during onic setting and the
6.1.3.17	Seismological studies for Nuclear Fuel Waste Management Program	Wetmiller, RJ	G	-	S	-
	Obj: As part of the EMR-AECL Nuclei northern Ontario to augment the s eventual validation of acceptable sit	eismicity data base and i				
6.1.3.18	Propagation and attenuation of seismic waves; magnitude studies	North, RG	G	-	S	-
	Obj: To improve knowledge of the velocity earthquake locations and the estimate					ove the accuracy of
6.1.5.01	Seismological data monitoring and exchange	Trigg, DF	G	-	S	-
	Obj: To develop an improved ability to seismological consequences.	detect and to identify us	ndergroun	d nuclear e	explosions	and to assess their
6.1.5.02	Arms Control Studies	Basham, PW	G	-	S	-
	Obj: To provide advice to the Department of a ban on underground nuclear exp.		ıll matter	s pertaining	g to seism	ological verification
6.1.6.01	Provision of management and administrative support for the Seismology Section	Basham, PW	G	-	S	-
	Obj: To provide overall management and Chief of the Section.	I administrative support to	the Seis	mology Sec	tion throu	igh the office of the
6.3.1.01	Operation of Geomagnetic Observatories	Jansen Van Beek, G	G	-	GMag	-
	Obj: To operate the Canadian Geomagne training of personnel and provision of				and supe	rvision of contracts,
6.3.1.02	Surveys for secular variation and special charts	Newitt, LR	G	-	GMag	-
	Obj: To conduct surveys of the geomagn secular variation information.	netic field over Canada in	order to	provide up	-to-date	magnetic charts and
6.3.1.03	Development and maintenance of instrumentation for observatories and surveys	Thomas, JT	G	-	GMag	-
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Obj: To develop new and improved instruments for the Canadian Geomagnetic Observatory Network and temporary variation stations, and to calibrate, service and repair the existing equipment.

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Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
6.3.2.01	Geomagnetic observatory data	Jansen van Beek, G	G	-	GMag	-
	Obj: To maintain, update and disseminate accuracy and reliability.	geomagnetic observatory	data an	d to monito	r quality o	of output including
6.3.2.02	Geomagnetic survey data	Newitt, LR	G	-	GMag	-
	Obj: To maintain, update and disseminate geomagnetic field over Canada.	e magnetic charts, refere	nce field	s, magnetic	models, a	and reports on the
6.3.2.05	Development and maintenance of data laboratory hardware and software	Vishnubhatla, SS	G	-	GMag	-
	Obj: To design, develop, maintain, repair processing and editing digital geomagn	r and update laboratory netic data.	facilities	, including	software,	, for transcribing,
6.3.3.01	Prediction of geomagnetic disturbances	Coles, RL	G	-	GMag	-
	Obj: By analyzing time-varying magnetic interplanetary magnetic fields, to desubstorms.					
6.3.3.02	Provision of geomagnetic activity forecasts and information	Hruska, J	G	-	GMag	-
	Obj: To provide short- and long-term fo information on the variation of the ea		activity	throughout	Canada, a	nd to disseminate
6.3.3.03	Secular variation and main geomagnetic field studies	Haines, GV	G	-	GMag	-
	Obj: To study the behavior of the main representations of the field; and to in			r variation;	to devel	op and test model
6.3.4.11	Development and maintenance of instrumentation for earth structure studies	Trigg, DF	G	-	GMag	-
	Obj: To design, develop, construct, test, st and laboratory facilities for geomagne			date, by con	tract or in	-house instruments
6.4.1.02	Gravity mapping of Arctic Island Channels	Halliday, DW	G	-	Grav	-
	Obj: To complete the regional gravity ma Shelf Project (PCSP) and the Canadia the Arctic Islands by 2005.					
6.4.1.06	Systems development and instrument maintenance	Goodacre, AK	G	-	Grav	-
	Obj: To provide systems engineering, instrand upgrade all field instruments, dat accuracy.	rument maintenance and a a acquisition systems and a	research associate	n laboratory d software 1	facility in to ensure t	n order to maintain their reliability and
6.4.1.13	Gravity mapping of Eastern Canada	Cooper, RV	G	-	Grav	-
	Obj: To complete the regional gravity map	ping of Eastern Canada an	d the adj	oining offsh	ore areas.	
6.4.1.15	Augmented Gravity Mapping Program (DND-DMA)	Boyd, B	G	-	Grav	-
	Obj: To observe additional gravity stations	in selected areas of Cana	da where	present cov	erage is sp	parse or absent.
6.4.1.16	Localized gravity surveys	Halliday, DW	G	-	Grav	-
	Obj: To intensify regional gravity mapping geological targets.	g or to supplement region	al covera	age with pro	ofiles, as r	equired, over local

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
6.4.1.17	Canadian absolute gravity service	Liard, JO	G	-	Grav	-
	Obj: a) to provide, with high Internation present and future requirements measurements for standards lab field studies and for measurement to maintain state-of-the-art exabsolute gravity measurements.	for datum control of the C coratories, as a contribution of temporal variations of	anadian ( on to int the Eart	Gravity Stan ernational of h's gravity f	dardization experiment ield.	n Net, as reference ts in global gravity
6.4.2.01	Gravity and crustal motion data base	Hearty, DB	G	-	Grav	-
	Obj: To provide data storage, retrieva government research programs, the public.	l and display services for petroleum and mineral ex	r gravity xploration	and crusta n industries,	al motion , universiti	data in support of ies and the general
6.4.2.02	Gravity standards including the Canadian Gravity Standardization Net	McConnell, RK	G	-	Grav	-
	Obj: To develop gravity reference and maintain, update and extend the collaborate with agencies outside Ca	Canadian Gravity Standa	ardization	Net (CGS	N80); to	advise, assist and
6.4.2.03	Mathematical methods and systems	Buck, RJ	G	-	Grav	-
	Obj: To develop computer methods, tech and related data.	niques and systems require	d for the	reduction,	editing and	d analysis of gravity
6.4.3.06	Impact processes and evolution of the Earth's Crust	Grieve, R	G	-	Grav	-
	Obj: To investigate meteorite impact pr the Earth's crust through studies o parameters of circular structures ar	f impact melting, natural	and expe	rimental sh		
6.4.3.07	Rock properties contribution to Nuclear Fuel Waste Management Program	Robertson, PB	G	-	Grav	-
	Obj: To study the physical, rock-crack a research areas as part of the concept				ples obtain	ned from designated
6.4.3.14	Crustal genesis and evolution studies	Grieve, R	G	-	Grav	-
	Obj: To utilize large-scale and digital good crustal genesis and evolution.	eophysical, space-derived a	and other	databases t	o address	general problems in
6.4.3.15	Gravitational field modelling, analysis and interpretation techniques	Nagy, D	G	-	Grav	-
	Obj: To develop mathematical techniqu gravitational field from surface and		for mod	elling, analy	ysis and in	terpretation of the
6.4.4.01	Management and coordination of Geophysical Activity	Gibb, RA	G	-	Grav	-
	Obj: To manage and coordinate geophysiconcept assessment phase of the Nu				ignated ar	reas as part of the
6.4.4.02	Coordination of Geophysical Data Base	Gibb, RA	G	-	Grav	-
	Obj: To coordinate the development and part of the concept assessment and					
6.4.5.02	Coordination of all CESAR scientific results	Weber, JR	G	-	Grav	-
	Obj: To coordinate CESAR scientific res	ults and evaluate bathymet	ric and g	ravity result	:S.	
6.4.6.01	Provision of management and administrative support for the Gravity and Geodynamics Subdivision	Gibb, RA	G	-	Grav	-
	Obj: To provide overall management and the office of the Chief of the Subdiv	d administrative support to vision.	the Gra	vity and Geo	odynamics	Subdivision through

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
6.5.1.01	Geodynamic observatories and data base	Popelar, J.	G	-	G	-
	Obj: To ensure availability, preservatio stability of primary reference point			the earth's	rotational	dynamics and the
6.5.1.02	Data analysis and development of new techniques	Popelar, J	G	-	G	-
	Obj: To assemble, evaluate and compar polar motion to improve data red their implications for geophysics, p	uction models, reference s	tandards a	nd observat		
6.5.1.04	Mathematical methodology and applications for satellite global positioning and navigation	Kouba, J	G	-	G	-
	Obj: Develop mathematical methods ar optimize their applications in geople		world wide	satellite po	sitioning a	nd navigation and
6.5.2.01	Relationship of tilt, strain and gravity variations to seismicity at Charlevoix, Quebec	Lambert, A	G	-	G	-
	Obj: To measure and interpret tilt, str leading to earthquake rupture in the	0 , 0	s part of a	multi-para	meter stud	y of the processes
6.5.2.05	Aquifer-tide studies for Nuclear Fuel Waste Management Program	Bower, DR m	G	-	G	-
	Obj: In cooperation with AECL staff measurements at selected sites in t					
6.5.2.07	Determination of regional and large scale deformations in Canada	Lambert, A	G	-	G	-
	Obj: To introduce new measurement ted traditional geodetic methods to m areas. Prepare for monitoring detechniques with the purpose of u hazardous nature.	nonitor, analyze, and inter eformations of the North	pret conter American	nporary cru Plate by lo	stal deform ong baselin	mation over broad e and gravimetric
Mineral R	Resources Division					
640402 (3571)	Certification of bedded and non-bedded mineral deposits	Findlay, DC	MR	EG	-	-
	Obj: To act on behalf of the Director- bedded or non-bedded for income to		l Survey in	the certifi	cation of n	nineral deposits as
650056* (3571)	Geology of lead and zinc resources in Canada	Sangster, DF	MR	MD	-	Nfld NS NB Que Ont Yk BC Frank Kee Mack
	Obj: To carry out comprehensive reseau geologically based estimates of Ca advice to government for mineral p	anada's mineral resources;	2) provide g			
	NTS: 12 B,H,I,P; <u>11 C</u> ,G,J; 22 B,H; 48 B,	C; 68 H; 95 D; <u>94 B,E</u> ; <u>105</u>	<u>B</u> ,L; 104 O;	85 B; 21 E;	31 C,E	
680114 (3571)	Development and supervision of mineral deposits data bank	Garson, DF	MR	MD	MRIS	-
	Obj: To develop files of data on minerathe Geological Survey of Canada Department and with a National Sinvolved:  1. documentary files of reports, m	a and, as far as it is pr ystem for storage and retri	eval of geo	mpatible w logical data	vith related. Two mai	d files within the
	<ol><li>computer processable files.</li></ol>					

Project Number		Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
690038 (3571)	estin	ability models for nating mineral potential for geoprocessing	Agterberg, FP	MR	EG	MAG	-
	Obj:	To develop a statistical method em- specific types of mineral deposits in integration and processing of various	geographically-delineated				
700059* (3571)		ogy of copper and bdenum deposits in Canada – I	Kirkham, RV	MR	MD	MDG	BC NB NS Nfld Ont
	Obj:	To carry out comprehensive research 1. support or provide geologically ba 2. provide guidelines for their discov 3. provide advice to government for	sed estimates of Canada's rery; and	mineral r		sits in orde	er to:
	NTS:	11; 12; 42; 104					
740098* (3571)		illogeny of the northern idian Cordillera	Dawson, KM	MR	MD	RMS	BC Yk
	Obj:	To integrate present mineral commod 1. examine the large scale geologica 2. assist in planning of future geolog 3. assess the area with regard to its	I controls and distribution of ical mapping; and			oosits;	
	NTS:	92 H,J,O; 82 K,M; 103 G; 104 N,O,P;	105 A,B,F,G; 95 D,E,L; 114	P			
750010* (3571)		ogy of Uranium and ium Resources in Canada	Ruzicka, V	MR	MD	RMRA	Ont Sask Kee Mack Que NS Nfld NB
	Obj:	To carry out comprehensive research 1. support or provide geologically be 2. provide guidelines for their discov 3. provide advice to government for	sed estimates of Canada's very; and	uranium a	and thorium		
	NTS:	41 I,J; 52 A,H; 64 E,L; 74 G,H,I; 65; 7	<u>75; 21; 22 M; 23 D; 12; 20 P</u>				
750069* (3571)		ogy of uranium urces of Canada 3	Bell, RT	MR	MD	RMRA	BC Yk Mack Alta Sask Man Que Nfld
	ŕ	To carry out comprehensive research the Canadian Shield in order to: 1. provide or support geologically ba 2. provide guidelines for discovery o 3. provide advice to government for 23; 24; 105; 115; 82 E	used estimates of Canada's of deposits; and	uranium ı	resources;	tary basins	•
750094 (3571)	stati to re	elopment of computer-based stical techniques applicable gional geological and mineral sit data	Chung, CF	MR	EG	MAG	-
	Obj:	Develop and apply statistical technidata and mineral deposit data.	iques as an input to metho	ds for re	egional reso	urce evalua	ation of geological
750098* (3571)		allogeny of the south- ern part of the Canadian Shield	Franklin, JM	MR	MD	MDG	Man Sask Que Ont Frank Kee Mack
	Obj:	To provide a regional synthesis of the					

Obj: To provide a regional synthesis of the geology of a large part of the Canadian Shield south of Lat. 60° and west of Long. 25°, in order to determine the origin, setting and distribution of mineral deposits as an aid to prospecting and to the economic development of the region.

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

**Project Project** Number Title Leader Div. Subdiv. Sec. Prov. 750110 Federal-Provincial and Federal Findlay, DC MR EG (3571)Territorial mineral evaluation liaison and co-ordination Obj: To provide technical advice and liaison on the Geological Survey's involvement in the design and monitoring of joint federal-provincial actions in mineral resource evaluation and development; to participate, as required in the co-ordination, implementation, and management of such projects; same for mineral evaluation projects in northern Territories (Yukon, NWT) conducted by GSC in cooperation with other agencies (eg. DINA). 760014 Geology of uranium Dunsmore, HE MR MDG NS NB (3571)resources of Canada-4 Nfld Que Obj: Comprehensive research on the geology of uranium deposits in order to: CUP remort of provide goologically based estimates of Canada's uranium resources; provide guidelines for their discovery; 3. Movide Add to After ment for uranium policy and related matters. NTS: 11; 12; 21 760064 Geology of Mineral Gross, GA MR SP (3571)Resources in the Oceans Obj: 1. To provide a base of geological information for identifying and determining the kinds, distribution and possible extent of ocean mineral resources, and for evaluating their significance to Canada. 2. To provide a direct and independent national competence for evaluating these resources and for appraising implications of their development with respect to Canadian mineral policy and the use and marketing of Canadian mineral products. 770024\* Geology of uranium Gandhi, SS MR MD RMRA BC Mack (3571)resources of Canada-V NS Nfld Obj: To carry out comprehensive research on the geology of uranium deposits in order to: 1. support or provide geologically based estimates of Canada's uranium resources; 2. provide guidelines for their discovery; 3. provide advice to government for uranium policy and related matters. NTS: <u>75</u> E,F,J,K,L,N,<u>O,P</u>; 76; 85; <u>86 K</u>; 21 H; <u>13</u> H,J,K,L,O 770025\* Regional Geochemistry - Yukon Goodfellow, WD MR MDG Υk (3571)Obj: 1. To determine through regional geochemical surveys the mineral potential of the Yukon. 2. To assess through regional detailed studies the use of various geochemical sample media as a fundamental step towards the development of geochemical methodology appropriate to the project area. 3. To provide a data base for the compilation of a National Geochemical Reconnaissance Map as a contribution to the mineral potential inventory of the nation. NTS: 105 B,C,D,E; 115 A,H,I,J,K,N,O 770055\* Metallogeny of the north-Roscoe, SM MR MD **RMS** Ont Que Mack (3571)western part of the Canadian Shield Kee Man Sask Obj: To provide a metallogenic basis for the evaluation of the mineral resources of the northwestern part of the Canadian Shield. NTS: 46; 55; 56; 64; 65; 66; 74; 75; 76; 85; 86 770063\* Geology of Lead and Zinc Lydon, JW MR MD MDG Yk Mack Oue (3571)resources of Canada - II Man Frank Nfld Obj: 1. Support or provide geologically based estimates of Canada's resources of these commodities. 2. Provide guidelines for their discovery. 3. Provide advice to government for mineral policy and related matters. NS NB Frank 770071\* Geology of copper and Sinclair, WD MR MD **RMS** (3571)molybdenum resources of Canada Que Ont Kee Yk BC Mack Obj: The project is one of comprehensive research on the geology of copper and molybdenum deposits in order to: 1. support or provide geologically based estimates of Canada's resources of these commodities; 2. provide guidelines for their discovery; and 3. provide advice to government for mineral policy and related matters.

NTS: 104 O; 105 A,B,C,D,F,M,O; 20 P; 21 G,J; 41 I; 42 C; 85 H,I,J; 115 N,O

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
780032 (3571)	Lead isotopic studies on genesis of ore deposits	Thorpe, RI	MR	MD	MDG	-
	Obj: 1. To do lead isotopic studies of ord	e deposits in order to imp	rove our	understandi	ng of the	age and genesis of
	<ul> <li>these deposits.</li> <li>To derive a lead isotope model that</li> <li>To coordinate the obtaining of lead and the assignment of priorities for</li> <li>To aid members of the section in the</li> </ul>	ad isotope analyses for the or such analyses.	members	of the Min	eral Deposi	its Geology Section
800023		•				. ,
800023 (3571)	Special assignments on eastern and northern Canada	Poole, WH	MR	EG	SP	Que NB NS Nfld
	Obj: To contribute to the mineral resource	e data base and the evaluat	ion of reg	gional resou	rces.	
810024* (3571)	Metallogeny of the Baker Lake-Thelon region, N.W.T.	Miller, AR	MR	MD	RMS	Kee
	Obj: To determine the relationship of ura metamorphism and sedimentary proce the Baker Lake-Thelon region.					
	NTS: <u>66 A</u> ; <u>56 D,E,J</u> ; <u>65 I,J</u> ; 55 M					
810025 (3571)	Organization and preparation of mineral resources component of Economic Geology Series Volume 1 – 6th Edition	Thorpe, RI	MR	MD	MDG	**
	Obj: To produce descriptive-interpretative the regional geological accounts, and regional comparisons of the characte	I to produce summaries of	deposit	types, meta		
820051* (3571)	Metallogeny of marine environments, including active spreading ridges	Franklin, JM	MR	MD	RMS	Pacific Offshore
	Obj: 1. In collaboration with other scient occurrences in Canadian waters. Wilson ridges and adjacent seaflor.  2. To conduct research on hydrother design, coordination and implementation.	, with particular emphasiors. ermal systems and produc	s on the ets in sea	Juan de F Isloor envir	fuca-Explosonments a	rer-Dellwood-Tuzo
	NTS: 91; 100; 101; 102					
820052* (3571)	Metallogenic processes in sedimentary-diagenetic environments	Dunsmore, HE	MR	MD	MDG	Sask Man Alta BC
	Obj: To understand how various commo diagenetic processes, particularly t processes is necessary for developme evaluation.	hose operating in evapor	itic envi	ronments.	An under	rstanding of these
	NTS: <u>53; 62</u> ; 72; 73; 82; <u>83</u>					
830038 (3571)	Geomathematical applications the integration of geoscience in map data	Bonham-Carter, GF	MR	EG	MAG	Yk
	Obj: To integrate diverse types of map in maps (aeromag., gravity, radiometric (Landsat MSS digital data), mineral methods for quantitatively comparing	c surveys), geochemical sur occurrences (from CANA	rveys (str MINDEX	eam and lal and elsewh	ke surveys) ere). To	), satellite imagery
	NTS: 105 I					
840003* (3571)	Regional mineral resource assessment, northern Canada – II	Jefferson, CW	MR	MD	RMRA	Yk Mack Kee Frank BC Alta Que
	Obj: To conduct non-renewable resource activities including proposed nation genetic models of mineral occurrence	al parks and other conser	vation ar	eas. To c	ontribute	to descriptive and
	NTC. 22. 21. 1.C. 5C. 77. 79. 92. 97. 99. 91.	95. 96. 97. 98. 105. 106				

NTS: <u>23; 24</u>; 46; <u>56</u>; 77; 78; <u>82</u>; 87; 88; <u>94</u>; <u>95</u>; 96; 97; 98; 105; 106

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
840012* (3571)	Regional mineral resource assessment – northern Canada – I	Scoates, RFJ	MR	MD	RMRA	Frank Mack <u>Kee</u>		
	Obj: To conduct non-renewable resource assessment studies based on regional metallogeny for land use plan activities including proposed national parks and other conservation areas.							
	NTS: 46 (W ½) 77; 78; 87; 88; 95; 96; 97; 98							
840018* (3571)	Comparative Regional Metallogeny	Poulsen, KH	MR	MD	RMS	Ont Man Sask		
	Obj: To determine the relationships between tectonostratigraphic domains; to complication to exploration and resource.	ontribute to descriptive a	and genet	tic models	of minera	lization and their		
	NTS: 11; <u>42; 52; 62; 63; 64; 73; 74</u>							
840050* (3571)	Metallogeny of Ultramafic and Mafic Rocks	Eckstrand, OR	MR	MD	MDG	Ont Que Man Sask Mack NB		
	<ol> <li>Obj: 1. To increase the understanding of mafic rocks in Canada.</li> <li>To provide geological knowledge resources associated with such rowanadium, titanium and asbestos.</li> </ol>	applicable in the explora	ation, dev	velopment,	exploitatio	n and appraisal of		
	NTS: 42 A; 52 E,L,H; 23 J; 63 K,O; 64 C; 7	<u>4 A</u> ; 75; 76; <u>21 B,G</u>						
840051* (3571)	Geological Evaluation and Remote Sensing (GEARS)	Rencz, AN	MR	EG	MAG	Ont Yk Que NS NB		
	<ol> <li>Obj: 1. To initiate and develop remote sensing applications to investigate geological phenomenon;</li> <li>To develop programs/projects in image analysis; and</li> <li>To assist in cooperative projects with GSC and non GSC staff in applications of remote sensing to existing and planned projects.</li> <li>NTS: 31 C,F,J,K; 105 I; 11 D,E,F; 21 J,L</li> </ol>							
840059* (3571)	Metallogeny of Eastern Canada II	Birkett, TC	MR	MD	RMS	Nfld NS NB Que		
	Obj: 1. To determine the relationships be Appalachian, eastern Grenville an 2. To contribute to descriptive and exploration and resource evaluation	d Superior and southeaster genetic models of mineral	n Church	ili Province	•	ts in the Canadian		
850009*	Metallogeny of Eastern Canada I	Robert, F	MR	MD	RMS	Que Ont		
(3571)	Obj: 1. To determine relationships betwo with emphasis on southeastern Su 2. To contribute to descriptive a exploration and resource evaluation	perior Province and on sout nd genetic models of m	thwes tern	Grenville I	Province.			
	NTS: <u>31, 32</u>							
850012 (3571)	Supervision, Ottawa-Carleton U GSC Joint Stable Isotope Laboratory	Taylor, BE	MR	MD	MDG	-		
	Obj: To provide appropriate expertise and the terms of reference provided Memorandum of Understanding and d	by the GSC-OCCGS (Ot	tawa-Cai	rleton Cen	tre for G			
850013 (3571)	Light Stable Isotope Geochemistry of Rock and Ore-Forming Processes	Taylor, BE	MR	MD	MDG	Ont		
	Obj: 1. To provide a better understanding Canada.  2. To develop models of ore-formula of the control of the co			_				
	characteristics. NTS: 52							
	11101 /6							

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
850052* (3571)	Metallogeny of gold in the continental crust	Poulsen, HK	MR	MD	RMS	NS Que Ont Man			
	<ol> <li>To increase understanding of the occurrence and genesis of hydrothermal gold deposits in Canada.</li> <li>To work toward definition of the geological processes and environments important in the formation of gold deposits; to develop criteria for (a) exploration, and (b) assessment of gold potential.</li> <li>In the short term to provide descriptions of major types of Canadian lode gold deposits as contributions to the DNAG volume on "Mineral Deposits of Canada".</li> </ol> NTS: 11 D,E,F; 42 A,E; 32 C,D,E; 63 J,K								
860008*	Metallogeny of Nova Scotia	Sangster, AL	MR	MD	RMS	NS			
(3571)	Obj: 1. To determine the relationship bet adjacent shelf portions of the Can 2. To contribute to the descriptive of as pertains to mineral exploration	adian Appalachian Providata base and to develop	nce. genetic mo	odels of min					
	NTS: 11; 20 O,P; 21 A,B,H								
860009*	Metallogeny of New Brunswick	Watson, GP	MR	MD	RMS	NB Que			
(3571)	Obj: 1. To determine the relationship  New Brunswick and adjacent shelf  2. To contribute to descriptive and exploration and resource evaluation	portions of the Canadian genetic models of minera	n Appalach	ian Provinc	es.				
	NTS: 11 E; 21								
860015* (3571)	Biogeochemical methodology  Obj: 1. Develop, test and publish biogeochemical methodology	Dunn, CE	MR	EG	-	Ont Que BC Sask			
(33/1)	n.								
	NTS: 32 E; 92 H; 73 P; 74 A								
860018* (3571)	Geological research on sediment-hosted base metal deposits	Sangster, DF	MR	MD	MDG	NS Que Ont Yk BC Frank Mack Kee			
	Obj: To conduct research on base metal de 1. increase the understanding of the 2. improve our knowledge of the def 3. improve guidelines for resource a	geological distribution a initive deposit-model cha	nd origin of aracteristic	these depo s of these of	osits;				
	NTS: 11 C; 21 E; 31 C,E; 94 B,F; 105 B; 85	В							
860019* (3571)	Borehole geophysics calibration and standardization	Killeen, PG	MR	EG	BG	Ont NS Alta			
	Obj: To obtain quantitative data on the developing calibration facilities, impressurements.								
	NTS: 31 L; 11 D; 82 O								
860033 (3571)	Geochemical methodologies in glaciated terrains	Coker, WB	MR	EG	GMR	Man Ont			
	Obj: 1. To conduct research and develor utilization in glaciated terrain. 2. To investigate Quaternary stratig								
380077 (3572)	Analysis of rocks and minerals by established methods	Lachance, GR	MR	MC	AC	-			
·	Obj: To provide the scientific staff of the using the established methods of the					npositional analyses			
400006* (3572)	Preparation of collections of Canadian rocks and minerals for distribution to the public	Larose, JM	MR	MC	Min	BC Alta Sask Man Que Ont			
	Obj: To make available for distribution to educational institutions and the Canadian public representative collection of Canadian rocks and minerals that will assist prospectors and promote interest in the mineral industry.								

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
550101* (3572)	Reference collections of minerals, rocks and meteorites	Herd, RK	MR	MC	Min	-		
	Obj: To develop, foster and curate reference collections of minerals, rocks, and meteorites in support of Branch activities and in the national interest.							
580175 (3572)	Analytical services and development in geochemistry	Hall, GEM	MR	MC	С	-		
	Obj: To provide for the present and future	e analytical service require	ments of	the Geolog	ical Surve	y•		
620308	Electron beam microanalysis	Plant, AG	MR	MC	Min	-		
(3572)	Obj: To conduct studies of geological electron microscopy, in support of B		s of elec	ctron probe	microan	alysis and scanning		
640048 (3572)	Study of mineral collecting areas of interest to collectors and tourists	Stenson, AP	MR	MC	Min	Que Ont Man		
	Obj: To meet the needs of mineralogists accessibility, location, and nature of			d foreign v	isitors for	information on the		
680023* (3572)	X-ray diffraction analyses and mineralogical studies	Harris, DC	MR	MC	Min	Ont BC		
	Obj: To provide X-ray diffraction analyses and mineralogical studies in support of Branch projects.							
	NTS: <u>42 D</u>							
690090 (3572)	Development of methods for the analysis of geological materials	Lachance, GR	MR	MC	Min	-		
	<ol> <li>To develop new methods in order to: i) meet demands when analyses are requested on materials for which the Section does not have prescribed methods; ii) meet demands when analyses are requested for elements or constituents for which the Section does not have prescribed methods; iii) extend the range of concentration and/or improve accuracy and/or improve productivity.</li> <li>The objectives outlined in a) may be oriented towards: i) the analysis of a specific need such as the submission of a suite of unusual samples; ii) providing a detailed procedure that is made available to the analytical services component of the Section.</li> </ol>							
770054 (3572)	Sample preparation and mineral separating	Delabio, RN	MR	MC	Min	-		
	Obj: To provide sample preparation and m	nineral-separating services	in suppor	t of Branch	projects.			
830041* (3572)	Research and Development on the Analytical Methodology of Geological Materials	Gregoire, DC	MR	MC	С	Pacific Offshore		
	Obj: To provide for the analytical chemical GSC.	stry research and develop	ment requ	uirements c	onsistent	with the aims of the		
720071* (3573)	Airborne Gamma-Ray Spectrometry (Experimental Surveys)	Holman, PB	MR	EGP	RG	Man <u>NB</u> Ont Que Sask <u>Nfld NS</u>		
	Obj: 1. Provide acceptable standards for the acquisition and compilation of airborne gamma-ray spectrometic data.  2. Demonstration of suitability of airborne gamma-ray spectrometry methods in various parts of Canada by:  - conducting orientation surveys in advance of U.R.P. contract surveys.  - conducting reconnaissance surveys maps.  - conducting detailed follow-up surveys of areas of interest located by URP program.  3. Have available the technology and personnel to respond to nuclear accidents where aircraft monitoring is required.							
	NTS: <u>31</u> E,F,L,M; <u>21 G,H,J,O; 11 E</u> ; 64 H;	74 I,J,K; <u>2 D</u>						
720084* (3573)	Gamma-Ray Spectrometry (Technique Development)	Grasty, RL	MR	EGP	RG	Ont		
	Obj: To develop improved methods of air NTS: 31 C	borne gamma-ray spectrom	etry data	collection,	analysis	and presentation.		

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
740091* (3573)	Borehole Geophysics (Electrical and Magnetic Techniques)	Dyck, AV	MR	EGP	BG	BC <u>Ont</u> <u>Que</u> NB <u>Man</u> Sask Nfld			
CU	CURRIENT CANFORMATION opment of borehole mining geophysics technology as a means of improving the efficiency and effectiveness of mineral exploration practices, geophysical techniques applied to engineering and NGcological mapping.								
	NTS: 41 I,J; 52 B; 31 F,K; 74 H,I; 64 C								
780047 (3573)	COMPUTER METHODS and CURRENT INFORMATION Obj: No Tevalop Computer method 2. Develop data base of airborn	Carson, JM	MR	EGP	RG	Sask Ont NB Alta			
	Develop data base localization     To standardize and coordinat	ne, ground, laboratory and e the calibration of radion	l borehole gamn metric systems.	na ray spec	ctrometric	data.			
	NTS: 21 G; 31 G; 73 B; 82 O,P								
790034* (3573)	Shallow Seismic	Gagne, RM	MR	EGP	TG	Ont Que BC Alta			
	CURRENT INFORMATION NOT NTS: 31 F,G,H,I,K, 82 L, 14 L, 15 F, 23 G; 4		ngineering seisr	nic metho	ds for geo	ological mapping and			
800018* (3573)	CURREN DUNIORMATION NOT AVAILABLE	Pullan, SE	MR	EGP	TG	Ont Que Man Alta BC Sask Yk NS			
	Obj: 1. To develop new techniques for 2. To improve the reflection se sites in Canada.			and test	these imp	rovements at various			
	NTS: 40 I,P; 30 M; 84 A; 93 G; 73 B; 8	<u>3 G</u> ; <u>31 G</u> ; 11 E; 82 L							
810003* (3573)	Evaluation of Two Deep Sounding E.M. Systems CURRENT INFORMATION	Sinha, AK	MR	EGP	TG	NS Nfld Que Ont Sask Man Mack			
`	Obj: Offe evaluate and demonstrate problem and under the 37, for and uranium) purposes.  2. To compare these two system				nagnetic () I explorat	E.M.) systems, Maxi- ion (e.g. base metals			

2. To compare these two systems with other inductive sounding/mapping systems.

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; 71 I,N,O; 30 M; 21 A; 42 A; 32 F; 11 F

810008 Nuclear and Analytical Bristow, Q MR EGP IRD Ont (3573) Instrumentation

CUBREAD tation of advanced technology, and development of new technology (both in-house and under contract) for NOTO A LIABLE conventional geophysical and geochemical data and for the measurement of other new parameters which are not at present generally measured. Publication of results and/or licencing of products for the rapid and effective transfer of technology to industry.

NTS: 31 C,F,K; 40 P

(3573)

810009 Remote Sensing Applications Slaney, VR MR EGP RG -

CORREST meinted portogets and Landsat imagery file for the use of the GSC staff and to be in a position to advise geologists adeditate. The potentials and limitations of Landsat imagery in the solution of specific NOPLOBATE

To develop and to demonstrate new methods or to adapt existing methods in relation with the task of integrating imagery (satellite and airborne) with geochemical, geophysical and geological data for the purpose of geological mapping and/or mineral exploration.

3. To evaluate geological applications of Synthetic Aperture Radar and to provide the Interdepartmental Committee on Space with requirements for RADARSAT project.

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
810043* (3573)	Pore structure in crystalline rocks	Katsube, TJ	MR	EGP	-	Man Ont
CUI	RENTY divides methods to determine rystaline beneat Gpby these more NOTuch All ApteResearch areas.  NTS: 52 B,L; 41 J; 31 K	pore structure and radio nethods on rock samples f	nuclide is from Pina	solation ca wa, Chalk	pacity of River, At	various types of ikokan and other
820021* (3573)	Borehole Geophysics Applications to Coal	Mwenifumbo, CJ	MR	EGP	BG	Ont NS Alta Nfld Man
CUR	<b>RENTO INFORMATION</b> ds for the <b>NG 72</b> A; N M F A B U K; 82 I, 0; 31 F - G	detection and evaluation of	f coal.			
820023 (3573)	Operation CESAR	Overton, A	MR	EGP	TG	Arctic Offshore
CL	NOT in A LAB LEge, a major sub	Canadian Arctic geoscie osea mountain range in the	nce exper Polar Basi	dition to i	nvestigatio	on the nature and
	Regional Interpretation of	Charbonneau, BW	MR	EGP	RG	Kee Mack
	Obj: Deprepare combinations of airborn of airborn collaboration with mapping geolog	ne gamma ray spectrometri c compilations to other ge ists, economic geologists, e	oscientific	scales of 1: c data sets	1,000,000 and inter	and 1:5,000,000. pret the results in
	NTS: <u>65 B,C</u> ; <u>75 D,E</u>					
840028 (3573)	Applications of Gamma Ray  Spectrometry INFORMATION  Obj: To maximize the usefulness of airborn  Oarl aid to geologist. happing; and  2. a multi-element exploration techn	Ford, KL  ne gamma ray spectrometri  ique.	MR ic surveys	EGP	RGG	Ont NB NS
	NTS: <u>31</u> C, <u>L</u> ; 21 G,J; <u>11 D</u>					
840029* (3573)	Beaufort Sea Permafrost Geotechnics  CURRENT INFORMATION  CONTROLLED and Genoistrate a geophy  NGT the Allow Blood fishere are  NTS: 107	Hunter, JA vsical capability for evaluates.	MR tion of the	EGP nature and	TG I extent of	Mack permafrost in the
840030* (3573)	Interpretation of Standard Geophysical Logs	Katsube, TJ	MR	EGP	-	Ont Man
CANCEL	Obj: 1. To develop and apply methods of Fuel Waste Management Program. 2. To determine the physical propert 3. To determine rates of fluid and io	y distribution in rock mass	es over dis	tances of k		
	NTS: 31 K; 41 J; 52 B,L; 62 I					
840031* (3573)	Borehole Geophysics/Applications  CURRENT, INFORMATION	Killeen, PG	MR	EGP	BG	Ont Que Man NB NS
	Obj: Develop and demonstrate the Napio develop and demonstrate the Capital Control of the C					
	development.  NTS: 41 J; 42 A; 52 L; 63 F; 20 O; 21 O, 11	E				
840055 (3573)	CURRENTES IN POTE MATION Obj: IN OTDIAN RISK REPORTIES LABORAT	Stephens, LE	MR	EGP	BG Barabala	-

1. To provide physical rock property measurements in support of other projects (e.g. Borehole Logging).

2. To investigate physical rock properties and their interrelationships.

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
340062* (3573)	Geophysical Studies – Nova Scotia	Richardson, KA	MR	EGP	TG	<u>NS</u>		
	Obj: Netermine applacio structure	in Carboniferous rocks of (	Cumberland 1	Basin, offs	hore Port	Hood and Spring	hill	
	<ol><li>Produce airborne geophysical mineral deposits.</li></ol>	maps to aid in geological	mapping an	d identific	ation of	avourable areas	for	
	<ol> <li>Explain geological and potentia</li> <li>Determine most suitable surfa (e.g. Yava Mine) and coal beds.</li> </ol>	ace and borehole geophysic					sits	
	NTS: 11 D,E,F,K; 21 G,H							
	Ice Island Seismic URRENT SINFORMATION	Overton, A	MR	EGP	TG	Arctic Offsho	re	
	Ob <b>NO Contraction Bro</b> flection ex sedimentary and basement reflect				um paran	neters for record	ling	
350053* (3573)	Mineral Development Agreement	Richardson, KA	MR	EGP	-	NB		
C	NOT make an deposite E	maps to aid in geological				favourable areas	for	
	2. Apply airborne geophysics to the NTS: 21 G,J	he investigation of the Mira	amichi earth	quake area	l.			
9500511#	<del></del>	Dichardson VA	MD	ECD		NIFIA		
850054* (3573) <b>(</b>	Geophysical Studies – Newfoundland CURRENTEIMFORMATION	Richardson, KA	MR	EGP	-	Nfld		
	Obj: NO Toda Va bra Ba ama ray s 2. Determine optimum borehole Newfoundland zinc, Rambler a	e geophysical methods fo	maps of sele or detection	cted parts n of oreb	of Newfo odies of	undland. the types such	as	
	NTS: 1 M: <u>2 D</u> ; 110; <u>12</u> A,B,G, <u>H</u> ,I; 14 D							
850058 (3573)	Airborne Resistivity Mapping	Palacky, GJ	MR	EGP	SP	Man Ont Mack Kee		
,	Obj: Establishing the Read Tolena Morfni AWAH ABITE, thickne (not thicker than 200 m) and shall	ess and resistivity of glac	urveys in C ial overburd	anada for len, perma	mineral afrost and	resource inventorsedimentary co	ory, over	
740081*	Environmental Geochemistry	Jonasson, IR	MR	EGC	ER	BC		
(3574)	<ul> <li>Obj: 1. Understand the nature of physical and chemical processes which influence the dispersion of elements in the surficial environment.</li> <li>2. Coordinate subdivision activities relating to environmental matters.</li> <li>3. Provide appropriate surficial chemical and lithochemical support to Cordilleran sedimentary basin analysis</li> </ul>							
	studies. 4. Develop research program in determine modes of genesis of				ntal and s	ubmarine; and he	nce	
	NTS: 74 H,I; 64 E,L; 92 E,F; 94 F,G; 95	E,F; 106 F; 103 B,G;						
740107* (3574)	Trace elements in sulphides	Jonasson, IR	MR	EGC	MDG	Ont BC Yk Mack Que		
	Obj: 1. To determine the typical cont metalloids and non-metals in of the control	ores, ore minerals and access data with regard to classi ical and metallogenic province nemical inventory for regio	sory mineral fication of nces, establi	ls. ores, estir shment of	nates of environme	ore reserves of a ent baseline level	rare	
	NTS: 42 A; 32 D; 31 A,B,C,F,M,P; 94 F	<u>G</u> ; 104 N; <u>101 A,B</u>						
750039 (3574)	Automated Geochemical Cartographic Development	Ellwood, DJ	MR	EGC	RGS	-		
	Obj: To develop new methods and improcomputer systems which use the scales.							

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
750051*	National geochemical	Hornbrook, EHW	MR	EGC	~	-			
(3574)	<ol> <li>To provide for governments and industry nationally consistent, systematic, multi-element, reconnaissance data to indicate areas of mineral commodity potential for exploration and resource appraisal purposes and to provide information on the natural abundance of elements in the environment.</li> <li>To investigate geochemical variability in lake surveys in various terrains.</li> </ol>								
760047 <sup>-</sup> (3574)	Regional geochemistry-Northern Canadian Shield	Maurice, Y	MR	EGC	GMR	Mack Kee Frank Sask			
	<ul> <li>Obj: To determine the nature and factors affecting the distribution of trace elements within bedrock, overburden an stream and lake waters and sediments, etc. in order to:</li> <li>1. evaluate the effectiveness of the NGR program (project 750051) and improve the operating techniques an specifications;</li> <li>2. provide methodology for interpreting and following up NGR reconnaissance results;</li> <li>3. assess the mineral potential of various regions and rock units with emphasis on granitoid rocks.</li> </ul>								
	NTS: 76 H,I; 75 E,F-K; 74 H; 46 N,O,P; 4	7 A,B,E,F							
780015* (3574)	Disequilibrium in the uranium series	Dyck, W	MR	EGC	GMR	Sask <u>Ont</u> BC			
	Obj: To determine the usefulness of dise	quilibrium in the U series in	predictir	ng the exist	ence of U	mineralization.			
	NTS: <u>31 F,G</u> ; 64 L; 74 I; <u>92</u> ; <u>102</u>								
780024* (3574)	Analytical control and standardization	Lynch, JJ	MR	EGC	RGS	Ont Que NB			
	<ul> <li>Obj: I. To obtain sample preparation are subdivision and RGR.</li> <li>2. To provide analytical methodor regionally compatible analytical MDA jurisdiction.</li> <li>3. To provide various types of intellarge number of elements for the</li> </ul>	logy, the use of which wil al data for the subdivision ernational geochemical refe	l permit and RGR	the acquisi surveys u	tion of ac nder Fede	curate, precise and ral, Provincial, and			
790002	Geochemical data processing	Lund, NG	MR	EGC	SDS	-			
(3574)	To manage in digital form, all geochemical data generated for the subdivision.  In To produce open file material for Federal RGR and provincial open file releases of geochemical data.  To provide for the public information concerning all RGR surveys since 1975.  To provide special data processing requirements for division staff.								
790003* (3574)	Applied Geochemistry for the Cordillera	Ballantyne, SB	MR	EGC	GMR	BC Yk			
	<ol> <li>To develop and test geochemical exploration methods for the discovery of concealed ore deposits in a variety of geological and surficial environments in the southern Cordillera.</li> <li>To assess the effectiveness of geochemical reconnaissance surveys in the planning of exploration programs and in appraising the resource potential of areas.</li> </ol>								
	NTS: <u>104 B,M,N</u> ,O,P,I; 94 F,K,L; <u>105</u> B,C	<u>,D</u> -F,I,M; 92 O,P; 106 D; 11	.5 P						
790004 (3574)	Geochemical Resource Evaluation Studies	Garrett, RG	MR	EGC	GMR	~			
	Obj: To develop, test and publish metho for the purpose of resource eval selecting appropriate methods of de	uation and interpretation.							
790033* (3574)	Geochemistry of Mineral Occurrences and their Host Rocks in the Northern Cordillera	Goodfellow, WD	MR	EGC	MDG	Yk Mack			
	Obj: Through geochemical studies, to as 1. the origin of selected mineral o								

the origin of selected mineral occurrences;
 criteria which can be used in the exploration for new and possibly deeply buried mineral deposits;
 geochemical methodology for the identification and differentiation of stratigraphic units, thereby assisting in stratigraphic correlations; and

4. the evolution of marine environment during the Phanerozoic.

NTS: <u>105 F,I,N,O</u>; <u>115 H</u>

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
800030* (3574)	Isotopic Geochemistry, Precambrian Mineralized Basins	Cameron, EM	MR	EGC	-	Mack <u>Ont</u> Que			
	<ol> <li>Obj: 1. Provide data on the distributions of certain isotopic ratios within mineralized Precambrian basins.</li> <li>Utilize these data to interpret the mineralizing processes.</li> <li>Develop methods of geochemical exploration for mineral deposits in these basins based on the findings of (a) and (b).</li> </ol>								
<del>-</del>	NTS: <u>42 C</u> ; 52 A; <u>41</u> I,J,K, <u>P</u> ; 86								
830050 <sup>-</sup> (3574)	Geochemical exploration technology in ultrabasic complexes	Maurice, YT	MR	EGC	GMR	Ont Que			
<ul> <li>Obj: 1. To determine the favourability of ultrabasic complexes of various types throughout Canada to hos sulphides, platinum-group elements, chromite, and gold and silver deposits.</li> <li>2. To develop and refine geochemical exploration methods for these metals in different environments.</li> <li>3. To improve on the existing data base of platinum-group elements and other metals in various types and ultrabasic rocks.</li> </ul>						nments.			
	NTS: 21 L; 52 H								
830058* (3574)	Groundwater Geochemistry in Mineral and Hydrocarbon Exploration	Boyle, DR	MR	EGC	GMR	NS Ont Man			
	<ol> <li>Obj: 1. Development of methods of exploration for concealed mineral and hydrocarbon deposits using groundwaters</li> <li>2. To set up a quality controlled data base on groundwater chemistry to meet the necessary requirements effective interpretation in mineral exploration and environmental studies.</li> <li>3. Studies of geochemical parameters affecting groundwater chemistry.</li> <li>4. Investigate the role of groundwater geochemistry in the formation of infiltration type mineral deposits a determine guidelines for exploration.</li> <li>5. Provide input into environmental studies.</li> <li>6. Provide input into the geothermal energy program.</li> </ol>								
840032* (3574)	Lithogeochemical Studies, Gaspé Peninsula	Maurice, YT	MR	EGC	GMR	Que			
	Obj: To provide systematic data on a regional scale, on the major and trace element geochemistry of bedrock units in the Gaspé Peninsula. This will permit reconstitution of the evolution of the sedimentary succession, evaluate the degree of weathering which has affected these rocks, and help in the interpretation of surficial (stream, soil, till) geochemical data. All this information will ultimately lead to a better understanding of the distribution and concentration of economic minerals in the region.								
	NTS: 22 A,B,G,H								
840052* (3574)	Heavy Mineral Studies, Eastern Townships	Maurice, YT	MR	EGC	GMR	Que			
	Obj: To evaluate the favourability for the occurrence of economic deposits of Au, Sn, W, Ba, Cr, and platinum group elements on the basis of the dispersion of heavy minerals in streams.								
	NTS: Pts 21 E,L; 31 H								
840053*		Maurice, YT	MR	EGC	GMR	Que			
(3574)	Obj: To evaluate the favourability for the elements on the basis of the dispersion	the occurrence of econom on of heavy minerals in stre	ic depositeams.	ts of Au, S	n, W, Ba,	Ta, Nb and other			
	NTS: Pts 22 A,B,G,H								
840058* (3574)	Follow-up Geochemistry  GLIRRENTinINFORMATEONIE  eNOTTHAN AND AND THE AND TO BE AND THE AND TH	(Rogers, PJ) the geochemical nature of evelop new mineral explora	MR of regiona ation meth	EGC ally defined modologies.	anomalies	NS in the secondary			
850047* (3574)	Mineral Development Agreements – Geochemistry	Friske, PWB	MR	EGC	RGC	Nfld NB Man Sask Yk Ont			
	Obj: To contract and/or conduct orientation To publish high quality multi-elementary environmental use.	ion, regional and follow-up ement reconnaissance ex	geochemi ploration	cal surveys. data for	exploration	on, appraisal and			

Droject		Project				
Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
570029* (3570)	Geology and appraisal of metalliferous sedimentary iron and manganese resources	Gross, GA	MR	-	-	Nfld Que NB Ont
	Obj: To provide comprehensive geology related metalliferous sedimentar abundance in Canada to facility understanding to quality specification context.	y deposits to determine that tate exploration, land-use	eir geold planning	gical distri and policy	bution, or formation	rigin and potential n, and to provide
	NTS: 23 J,B,G; 22 J; 21 G,H					
620018 (3570)	Geological Survey of NTS 82 J W½ (Kananaskis Lakes, W½)	Leech, GB	MR	-	-	ВС
	Obj: To determine and interpret the str	atigraphic structural and eco	onomic ge	ological fea	tures of th	ne region.
	NTS: 82 J W½					
Activity	Management and Support					
650023	Operation Bow-Athabasca	Price, RA	DGO	-	-	BC Alta
Obj: To complete the systematic reconnaissance geologic study of the Rocky Mountains south of lat. 53' information on the character, structure, distribution, age, stratigraphic relationships, and origin of and other geological data that are required to evaluate the mineral potential of the area and to assis of oil, gas, coal and other mineral deposits in this and adjacent areas.						
	NTS: 83 C,D, E1/2, 82 J,E1/2,N E1/2, O, W1/2					
740084* (359)	Silurian-Ordovician macro- biostratigraphy of Anticosti Island, Quebec	Bolton, TE	DGO	-	SP	Que NB NS Kee Ont
	Obj: To obtain data on the Silurian ar regions to provide:  1. precise descriptions for all a change, faunal content;  2. descriptions of significant faur  3. local and regional correlations	ppropriate stratigraphic unit na for each stratigraphic unit consistent with the data.	ts of thei	·	•	
	NTS: <u>22</u> A,B, <u>D</u> ,H; 12 E,F,L; 18; 11 F; 45					
750068 (359)	Interdepartmental & Intergovernmental Technical Services	Manistre, BE	DGO	-	-	-
	Obj: To provide technical assistance to Geoscience Aid projects as requintergovernmental agreements, and	uired by the EMR/CIDA	Memorano	lum of Un	derstandin	in connection with g. To coordinate
790042 (359)	Stratigraphy, structure and Tectonics; Innuitian Fold Belt, Ellesmere Island, N.W.T.	Okulitch, AV	DGO	-	SP	Frank
	Obj: To map and describe structures of of that part of the belt on Ellesmo		e fold bel	t, their evo	lution and	the tectonic history
	NTS: 49 A,B,C					
800033 (359)	Geology and Economic Minerals of Canada 6th Edition	Wheeler, JO	DGO	-	~	-
	Obj: To coordinate the preparation of and thematic maps for publication		d Econom	ic Minerals	of Canada	a and related charts
810048 (359)	Canada-Nova Scotia Cooperative Mineral Program 1981-84	Poole, WH	DGO	-	-	NS
	Obj. To ensure that the Cooperative Material designed and that the GSC compositions of the cooperative Material Co				Mines and	d Energy is properly

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.				
820020 (359)	Federal Mineral Program in Newfoundland 1982-84	Poole, WH	DGO	-	-	Nfld				
	Obj: To ensure that the Federal Mineral Program in Newfoundland is properly designed and that the GSC compor properly managed and productive.									
830051	Geological Atlas of Canada	Okulitch, AV	DGO	-	SP	BC Alta				
(359)	Obj: To plan and organize the preparation of the Geological Atlas of Canada, which consists of a factual synthesis of the bedrock geology of Canada displayed in a series of 1:1 million scale maps accompanied by correlation charts, cross sections, interpretive maps or diagrams, etc., as appropriate.									
	NTS: Pts 82 H,L									
830054 (359)	Gaspé-Lower St. Lawrence Geoscience Program	Maurice, YT	DGO	-	-	Que				
	<ul> <li>Obj: 1. To coordinate the program of geoscientific studies under the Gaspé-Lower St. Lawrence initiative ar assist GSC Divisions in planning and delivery of the work, and to monitor progress.</li> <li>2. To develop and maintain appropriate contacts outside of GSC; to advise GSC management about factoring the program; to prepare such reports and other information as may be required by the Department and Central Agencies.</li> </ul>									
	NTS: 21 M,N,O; 22 A,B,C,G,H									
840027	Technology Transfer	Collett, LS	DGO	-	-	-				
(359)										
840041 (359)	Canada-Saskatchewan Mineral Development Agreement (ERDA)	Galley, AC	DGO	-	-	Sask				
	Obj: To coordinate ERDA supported, Go integration and completion.	SC geoscience investigation	ons in Sa	askatchewar	to ensur	e their timeliness,				
840042 <b>(3</b> 59)	Canada-Manitoba Mineral Development Agreement (ERDA)	Galley, AC	DGO	-	-	Man				
	Obj: To coordinate ERDA supported, (integration and completion.	GSC geoscience investiga	ations in	Manitoba	to ensure	e their timeliness,				
840054 (359)	Asbestos Initiatives Program – Geoscience Surveys Eastern Townships, Quebec	Anderson, FD	DGO	-	-	Que				
	Obj: To coordinate GSC geoscience invest ensure their timeliness, integration a		e support	ed by the A	sbestos Ini	tiatives Program to				
	NTS: Pts 21 E,L; 31 H									
840060 (359)	Canada-Newfoundland Mineral Development Agreement (ERDA)	Poole, WH	DGO	-	•	Nfld				
	Obj: To coordinate ERDA-supported GS integration and completion.	C geoscience investigatio	ns in Ne	ewfoundland	l to ensur	e their timeliness,				
840064 (359)	Canada-Nova Scotia Mineral Development Agreement (ERDA)	Poole, WH	DGO	-	-	NS				
	Obj: To coordinate ERDA supported Grant integration and completion.	SC geoscience investigati	ons in N	lova Scotia	to ensure	e their timeliness,				
840066 (359)	Canada-New Brunswick Mineral Development Agreement (ERDA)	Anderson, FD	DGO	-	-	NB				
	Obj: To coordinate ERDA supported GS integration and completion.	C geoscience investigation	ns in Ne	w Brunswic	k to ensur	e their timeliness,				
850067*	Southern Cordillera Lithoprobe Transect	Price, RA	DGO	-	_	BC Alta				
(359)	Obj: To develop an improved understandir the southeastern Canadian Cordillera	ng of the current state, ori	igin, evol	ution and d	ynamics of					
	NTS: <u>82</u>									

SCIENTIFIC PROJECTS

by

NUMERICAL ORDER

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
380077 (3572)	Analysis of rocks and minerals by established methods	Lachance, GR	MR	MC	AC	-			
	Obj: To provide the scientific staff of the Branch, and others on occasion, with comprehensive compositional analyses using the established methods of the Section, in support of Branch scientific projects.								
400006* (3572)	Preparation of collections of Canadian rocks and minerals for distribution to the public	Larose, JM	MR	MC	Min	BC Alta Sask Man Que Ont			
	Obj: To make available for distribution to of Canadian rocks and minerals that								
500029 (3522) (3512) (3543)	Identification and biostrati- graphic interpretation of referred fossils	Norford, BS	ISPG C AGC	P MG EPG	-	NS Nfld NB Yk Mack BC Alta Pacific Offshore			
	Obj: By the study of fossils collected by officers of the Geological Survey of Canada, members of other organizations and the general public, to provide identifications and ages vital to correlation of the host rocks and to the dating of geological events. To describe important fossils from these collections to further knowledge of paleontology and biostratigraphy of Canada.								
	NTS: 95 B,C; 12 D; 103 G; 82 E,K; 83 C; 9.	3 I							
550101* (3572)	Reference collections of minerals, rocks and meteorites	Herd, RK	MR	MC	Min	-			
	Obj: To develop, foster and curate reference collections of minerals, rocks, and meteorites in support of Branch activities and in the national interest.								
570029* (3570)	Geology and appraisal of metalliferous sedimentary iron and manganese resources	Gross, GA	MR	-	-	Nfld Que NB Ont			
	Obj: To provide comprehensive geological knowledge, technology and expertise concerning iron, manganese and related metalliferous sedimentary deposits to determine their geological distribution, origin and potential abundance in Canada to facilitate exploration, land-use planning and policy formation, and to provide understanding to quality specifications of resources for industrial use in their national and international market context.								
	NTS: 23 J,B,G; 22 J; 21 G,H								
570148	Radiocarbon dating program	Blake, W Jr	TS	-	Α	-			
(3551)	Obj: To plan and co-ordinate the radiocar	bon dating program of the	Geologica	al Survey.					
580175 (3572)	Analytical services and development in geochemistry	Hall, GEM	MR	MC	С	-			
	Obj: To provide for the present and future	e analytical service require	ments of	the Geolog	ical Survey	·•			
590457 (3551)	Radiocarbon laboratory development and operation	McNeely, RN	TS	QG	-	Ont			
	Obj: 1. To determine the age of carbons improving precision of existing to 2. To conduct research on variation to age determinations on fossil materials.	echniques; and to keep abre ns in the radiocarbon conte	ast of cu	rrent reseai	rch on new	techniques.			
	NTS: 31 G								
610019* (3522)	Ordovician and Silurian Biostratigraphy of British Columbia, Alberta, Manitoba Yukon, Mackenzie & Franklin	Norford, BS	ISPG	p	MaP	Frank Mack Yk <u>BC</u> Alta			
	Obj: Establishment of sequence of biochr provide necessary time control for e and western Canada.								

NTS: 36; 37; 47-49; 54; 57-59; 67-69; 82 J; 83; 85; 94; 95; 96; 97; 104 I,P; 105 I; 106; 116, 117; 120; 340

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

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

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
610269 <sup>-</sup> (3524)	Petrographic examination of coking coals from the Kootenay Group, Alberta and British Columbia	Cameron, AR	ISPG	CG	СТ	Alta BC			
	Obj: To determine the coking properties studies, of coals of the Kootenay Gr		iles for c	orrelation a	nd environ	ment of deposition			
	NTS: 82 G,J,O								
620018 (3570)	Geological Survey of NTS 82 J W ½ (Kananaskis Lakes, W ½)	Leech, GB	MR	-	-	ВС			
	Obj: To determine and interpret the strat	tigraphic structural and eco	nomic geo	ological fea	tures of the	e region.			
	NTS: 82 J W½								
620308	Electron beam microanalysis	Plant, AG	MR	MC	Min	-			
(3572)	Obj: To conduct studies of geological electron microscopy, in support of B		s of elec	tron probe	microanal	ysis and scanning			
630016*	Coast Mountains project	Roddick, JA	С	-	CMG	BC			
(3511)	Obj: A geological reconnaissance of the Coast Mountains between southeast Alaska and Vancouver for publication on a scale of 1 inch equals 4 miles. The investigation is expected to reveal the main events in the geological history of the Coast Crystalline Belt and to develop an understanding of the processes governing the formation of plutonic rocks in such orogenic belts.								
	NTS: 92 F,G,H,J,K,L,M,N; 93 D; 102 P; 10	03 A,G, I W½, J,N,P, W½							
640048 (3572)	Study of mineral collecting areas of interest to collectors and tourists	Stenson, AP	MR	MC	Min	Que Ont Man			
	Obj: To meet the needs of mineralogists and non-professional Canadian and foreign visitors for information on the accessibility, location, and nature of occurrences of minerals and rocks.								
640402 (3571)	Certification of bedded and non-bedded mineral deposits	Findlay, DC	MR	EG	_	-			
	Obj: To act on behalf of the Director-General of the Geological Survey in the certification of mineral deposits as bedded or non-bedded for income tax purposes.								
650003* (3521)	Geology of Cornwallis and adjacent smaller islands	Thorsteinsson, R	ISPG	RG	AI	Frank			
	Obj: 1. To improve the understanding of with a view of helping. 2. Assess the size, grade, mode of occur. 3. Improve the knowledge and un Cornwallis Island, thus aiding in	occurrence, origin and poten	entialities	of any fue.	l or minera	al deposit that may			
	and thereby contributing to (1).								
	NTS: <u>58 F,G</u> ; <u>68 E,H</u> ; <u>59 B</u>								
650007* (3567)	Ocean aeromagnetics	Bower, ME	G	A	-	Arctic Offshore			
	Obj: 1. To contribute to the development 2. To obtain aeromagnetic data for 3. To investigate the validity of spreading and continental drift. 4. To delineate sedimentary basins	the Magnetic Anomaly Mag theories postulating the m	p of North agnetic i	n America. mprinting o		rocks, ocean floor			
650023	Operation Bow-Athabasca	Price, RA	DGO	-	-	BC Alta			
(359)	Obj: To complete the systematic reconnaissance geologic study of the Rocky Mountains south of lat. 53°N; to obtain information on the character, structure, distribution, age, stratigraphic relationships, and origin of the bedrock and other geological data that are required to evaluate the mineral potential of the area and to assist exploration of oil, gas, coal and other mineral deposits in this and adjacent areas.								

NTS: 83 C,D, E1, 82 J,E1,N E1, O, W1/2

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
650024* (3522)	Cambrian biostratigraphy of the Canadian Cordillera	Fritz, WH	ISPG	P	OP	Mack Yk BC			
	Obj: To describe and assess biochronological significance of Cambrian trilobites in order to refine methods for dating Cambrian strata.								
	NTS: 106 B; 94 C-F; 116 B,C; <u>82 G,K,N</u>								
650027*	Quaternary of southern Alberta	Stalker, AM	TS	QG	-	Alta Sask			
(3551)	Obj: To gain knowledge of Quaternary s	tratigraphy, chronology, er	nvironments	and climat	es in sout	hern Alberta.			
	NTS: <u>72</u> ; 73; <u>82</u> ; 83								
650056* (3571)	Geology of lead and zinc resources in Canada	Sangster, DF	MR	MD	-	Nfld NS NB Que Ont Yk BC Frank Kee Mack			
	Obj: To carry out comprehensive resear geologically based estimates of Ca advice to government for mineral p	nada's mineral resources;	2) provide g	esources in guidelines f	order to: 1 or their d	) support or provide iscovery; 3) provide			
	NTS: 12 B,H,I,P; 11 C,G,J; 22 B,H; 48 B,	C; 68 H; 95 D; <u>94 B,E</u> ; <u>105</u>	B,L; 104 O;	85 B; 21 E	; <u>31 C,E</u>				
660006 <sup>-</sup> (3531)	Granite studies in the Ennadai-Rankin Inlet region	Davidson, A	LCS	-	SG	Kee			
	Obj: To classify the granitic rocks according to age, geological and chemical nature, using geophysical parameters where available and to relate this classification to the regional geology and mineral deposits.								
	NTS: 55 E,F,K,L; 65 H,I								
660009 <sup>-</sup> (3531)	East Arm of Great Slave Lake, District of Mackenzie	Hoffman, PF	LCS	-	BS	Mack			
Obj: To refine existing stratigraphic descriptions and relationships of the sedimentary and volcanic determine source regions and dispersal patterns in the sedimentary fill; to determine depositional envi and reconstruct the Paleogeographic history of the sedimentary basin.						volcanic rocks; to tional environments			
	NTS: 75 E,L,K; 85 H,I								
670002	Operation Bylot	Jackson, GD	LCS	-	NC	Frank			
(3531)	Obj: To provide a reconnaissance geological survey of a previously unmapped area and describe and interpret the broad geological framework and outline areas of potential economic interest.								
	NTS: 27; 37; 38; 47; 48								
670576* (3522)	Canadian Triassic Ammonoidea and Bivalvia	Tozer, ET	ISPG	P	OP	Yk BC Alta Frank			
	Obj: To describe and assess biochronological significance of Triassic Ammonoidea and Bivalvia in order to refine methods for dating Triassic rocks.								
	NTS: <u>560</u> ; 59 G; 49 F								
680017 (3552)	Sedimentology-engineering geology laboratory development and operation	Pelletier, BR	TS	QE	-	-			
	Obj: To standardize, develop, and/or bring into use various testing and/or analytical procedures available to the geoscientist; to develop new techniques and instrumentation; to ensure efficient operation of the sedimentology laboratories.								
680023* (3572)	X-ray diffraction analyses and mineralogical studies	Harris, DC	MR	MC	Min	Ont BC			
	Obj: To provide X-ray diffraction analy	Obj: To provide X-ray diffraction analyses and mineralogical studies in support of Branch projects.							
	NTS: <u>42 D</u>								
680031 (3551)	Quaternary stratigraphy of Old Crow Basin and Porcupine River Valleys	Hughes, OL	TS	QG	-	Yk Mack			
	Obj: Through investigation of Quater Quaternary stratigraphy and histor paleontology and archeology studies	ry of the region and to pro	ovide a geol						
	NTS. 106 E E. 115 D. 116 I NEW O D. 1	17 A							

NTS: 106 E,F; 115 P; 116 I, N E1, O,P; 117 A

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
680047* (3552)	Geomorphic processes, Mackenzie Valley-Arctic Coast	Heginbottom, JA	TS	TD	-	Mack		
	Obj: To investigate the processes involorder to understand better the pro							
	NTS: 96 B-F; 106 E,F,I,P; 116 I,N,P; Pts	97 B,C,D,E,F; 107 A,B,C,D	<u>,E</u> ,; <u>117 A,D</u>	<u>}</u>				
680064* (3521)	Stratigraphy and Paleontology of Upper Paleozoic rocks on parts of Ellesmere, Melville and Axel Heiberg Islands	Nassichuk, WW	ISPG	P	MaP	Frank		
	Obj: 1. To improve the understanding Sverdrup Basin; 2. to establish a biostratigraphic : 3. to evaluate the economic poten	framework for Carbonifero				laxial parts of the		
	NTS: 49 B,C,F,G,H; 340 A,B,C,D; 560 A	; <u>78 G</u> ; 79 B; 89 A; 88 H						
680071	Alkaline rocks in Canada	Currie, KL	LCS	-	PET	-		
(3531)	Obj: To identify and examine occurrent of emplacement and economic pot		nada, and to	explain th	eir origin, o	development, mode		
680081* (3567)	High resolution aeromagnetics (experimental surveys)	Olson, DG	G	A	-	Ont		
	Obj: To execute, according to pres gradiometer surveys, over areas se the GSC aeromagnetic system in d	elected and defined by man	agement, as					
	NTS: 40 O,P; 41 A,G,H,J,K; 31 D							
680090 (3523)	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 analysis of layer lattice silicates, mixed layer silicates, clays, minerals and elements submitted by GSC staff, university professors and various government agencies.							
680091 (3523)	Clay and clay minerals investigation	Foscolos, AE	ISPG	PG	GC	-		
	Obj: To improve and develop techniques for routine mineralogical and chemical analyses of clays and Canadian coals; to develop better techniques for quantitative, semi-quantitative and qualitative analyses of clays and clay minerals in sedimentary rocks and coals; to conduct research related to the crystal lattice structure of clay minerals. These studies also determine those parameters that affect: (1) the degree of sediment diagenesis and oil generating potential; (2) migration of fluids from source rocks which carry heavy metals.							
680093 (3522)	Upper Silurian and Devonian biostratigraphy western and northern Canada	Pedder, AEH	ISPG	P	MaP	Sask Man Alta BC Yk Frank Mack		
	Obj: Elucidation of the sequences of Upper Silurian and Devonian faunas, especially corals, of western and northern Canada so that correlations of strata of these ages can be achieved. Description and illustration of fossils that have, or are expected to have, biostratigraphic significance. Paleoecological and biogeographic analyses of species and other taxonomic categories that have different time ranges in different geographic realms and ecologies.							
	NTS: 88 A,B,D; 49 A,B; 59 A; 82 B; 84 J	1; <u>85 C</u>						
680101 (3522)	Conodont biostratigraphy of Siluro-Devonian rocks of the Arctic Islands	Uyeno, TT	ISPG	P	MiP	Frank Kee		

Obj: To set up conodont biostratigraphic framework for the Siluro-Devonian rocks of the Arctic Islands; to integrate this framework with zonations based on other fossil groups, such as graptolites, palynomorphs and brachiopods; to fix time lines in areas where strata undergo complex facies changes over relatively short distances. To determine the thermal maturity of the enclosing rocks with the use of conodonts.

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

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.	
680102* (3543)	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 and					pplication towards	
	NTS: 12; 21; 11 F,G,K; 20						
680109 (3543)	Palynological zonation of the Carboniferous and Permian rocks of Atlantic Provinces, Gulf of St. Lawrence and Northern Canada	Barss, MS	AGC	EPG	PGB	NS NB Nfld PEI Yk Mack Frank	
	Obj: To establish a comprehensive biostratigraphic framework of the Carboniferous and Permian succession and to reconstruct geological events and ecological environments, assist other disciplines to carry out stratigraphic, sedimentological and geophysical studies, facilitating a determination of the three dimensional geometry of the Carboniferous basins for resource evaluation.						
	NTS: 11 E; 1; 2; 11; 12; 95						
680114 (3571)	Development and supervision of mineral deposits data bank	Garson, DF	MR	MD	MRIS	-	
	Obj: To develop files of data on mineral deposits and to supervise their operation in ways effective for the needs of the Geological Survey of Canada and, as far as it is practical, compatible with related files within the Department and with a National System for storage and retrieval of geological data. Two main types of files are involved:  1. documentary files of reports, maps and other published and unpublished information; and						
	2. computer processable files.	F			,		
690038 (3571)	Probability models for estimating mineral potential and for geoprocessing	Agterberg, FP	MR	EG	MAG	-	
	Obj: To develop a statistical method employing geological information to assess the probability of occurrence of specific types of mineral deposits in geographically-delineated areas and to design quantitative methods for the integration and processing of various types of geoscience data.						
690061	Operation Penny Highlands	Jackson, GD	LCS	-	NC	Frank	
(3531)	Obj: To provide a reconnaissance geolog geological framework and outline are			ed area an	d describe	and interpret the	
	NTS: 16 E,K-M; 26 H,P; 27 A,B; 36 P; 37 A	<b>л,</b> В					
690064* (3551)	Quaternary palynology	Mott, RJ	TS	QE	PEc	NS NB Que Nfld	
	Obj: To study the quaternary palynology service to other scientists within the and agencies and non-government ins	Division, Branch, or Depa					
	NTS: 11 D,E,F,K,N,O; 20 P; 21 A,G,H,J,O;	12 A,B,H,I					
690065 (3551)	Surficial geology, St. Anthony- URRENT INFORMATION IN	Grant, DR	TS	-	RP	Nfld	
	Obj To man Westibe and Explain the Quit areal geological information incl and geochemical mineral explorat 2. knowledge of stratigraphy and	tion surveys; and					
	environments including glaciation NTS: 2 M; 12 P					•	
690075* (3512)	Foraminiferal Biostratigraphy of the Pacific Margin	Cameron, BEB	С	-	PMG	ВС	
• • • •	Obj: 1. To prepare publications on the Foraminifera of the onshore and compared to the prepare publications on the general compared to the com	offshore rocks of the Pacif.	ic Margin	•			
	NTS: 92 B; <u>103 F,G</u>						

Project Number		Title	Project Leader	Div.	Subdiv.	Sec.	Prov.	
390090 3572)		ent of methods for the f geological materials	Lachance, GR	MR	MC	Min	-	
	, S	To develop new methods in order section does not have prescribe constituents for which the Sectional/or improve accuracy and/or	ed methods; ii) meet dema tion does not have prescrib improve productivity.	nds when a	analyses ares; iii) exten	e requeste d the rang	ed for elements or ge of concentration	
	\$	The objectives outlined in a) submission of a suite of unusual analytical services component o	al samples; ii) providing a					
3552)		s and provenance sediments	Shilts, WW	TS	-	SR	Que Ont Nfld NS NB	
	2. 1 3. 1 4. 1 5. 1	To build a data bank comprising To define till provenance region To clarify mechanisms and scale To relate regional chemical approblems that can be defined an To develop and/or evaluate ithickness, character and proper To derive from the record cenvironmental changes and seist E,F; 21 E,G,I,J,L,N,O,P; 22 A,B;	is based on data from object e of glacial dispersal of roc- and petrologic properties of eally. Instrumentation and field ties of glacial sediments. of lake bottom sediments mic events.	tive 1. ks, mineral of till to techniques	s and trace engineering s capable o	elements., geomedic	cal, and biological	
700018 3532)	Paleomag	netism and rock in instrumentation and	Christie, KW	LCS	-	PMag	Ont	
	Obj: To 0 1. 1 2. 1	ical development contribute to the development of by designing, building, testing properties of rocks and minerals by developing new techniques samples and for the processing of by improving on the design of elaboratory and/or the quality of	and calibrating instrumens; or systems for the routine of data resulting from such existing instrumentation or	measurem measurem techniques	uired for the ent of mag ents; and inorder to	netic para	meters of standard	
3521)	structura	tive studies of l prototypes and/or ary environments	Cook, DG	ISPG	RG	-	-	
	con	objective is to familiarize to ceptual models of depositional to critically evaluate the mode	environments to enable the	types of e e participa	observations nts to both	s that ma recognize	y identify specific such environments	
700034 <sup>-</sup> (3522)	the north	biostratigraphy of ern Yukon Territory ent District of e and Alberta	Norris, AW	ISPG	P	MaP	Yk Mack Alta	
	<ol> <li>Delineation of facies distribution of Devonian rocks in northwestern Canada.</li> <li>Identifying and determining ranges of fossils for refining zonation and correlation with other areas.</li> <li>Determining distribution of faunal provinces and paleogeography of Devonian seas.</li> <li>Obtaining more information on the Upper Silurian/Lower Devonian, Lower/Middle and Middle/Upper Devonian boundaries in Canada.</li> </ol>							
	NTS: 116	(E 3/4); 117 (S½); 106 (W½); 74 1	M; 84 P; 85 A,B,C,F,G					
700047* (3511)	Operation	•	Gabrielse, H	С	-	CMG	BC	
(3)11)	as a	establish the stratigraphy, stru an aid to regional development.	cture and geological frame	ework to w	hich the mi	neral depo	sits may be related	
	NTS: 94 (	C,E,F						
700056* (3551)		ton Island, Nova Scotia	Grant, DR	TS	QG	-	NB <u>NS</u>	
	Obj: To map, describe and explain the surficial deposits and landforms in order to provide:  1. areal geological information with particular reference to the needs for data required for industrial development and mineral exploration; and  2. knowledge of the stratigraphy and age of Quaternary features and of the history of Quaternary events and environments including glaciation, deglaciation and local sea level change.							
	NTS: 11	D,E, <u>F,K</u> ,N; 21 A,H						

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
700059* (3571)	Geology of copper and molybdenum deposits in Canada – I	Kirkham, RV	MR	MD	MDG	BC NB NS Nfld Ont			
	Obj: To carry out comprehensive research on the geology of copper and molybdenum deposits in order to: 1. support or provide geologically based estimates of Canada's mineral resources; 2. provide guidelines for their discovery; and 3. provide advice to government for mineral policy and related matters.								
	NTS: 11; 12; 42; 104								
700092* (3542)	Surficial geology and geomorphology, Mackenzie Bay – Continental Shelf	Blasco, SM	AGC	EMG	SG	Arctic Offshore			
	Obj: To resolve the stratigraphic and structural relationships of the unconsolidated surficial marine sediments of the Beaufort continental shelf to provide the geological framework necessary for: the delineation of permafrost; the assessment of offshore aggregate supplies; the establishment of engineering design criteria for offshore structures for petroleum exploration and production; the resolution of the Quaternary history of the shelf area; the identification of sedimentary and geomorphic processes operating on the shelf; and to continue development of the technology necessary to conduct surficial marine geological surveys in ice covered areas of the arctic and in shallow coastal waters.								
	NTS: <u>87; 97; 107; 117</u>								
710020* (3551)	Surficial geology and land classification, Mackenzie Valley Transportation Corridor	Hughes, OL	TS	QG	-	Mack Yk			
	Obj: To map, describe and explain the (muskeg) cover of the Mackenzie Val. provide areal knowledge of geoterrain information in connection development, and engineering collections are determined the Quaternary history	alley Transportation Corrido logy and terrain, bearing point with land use planning, instruction; and by of the region.	or in order particular pipeline p	to: ly in mind	the needs	of government for			
	NTS: <u>96 C,D</u> -F; <u>106 G,H</u> -K,L,M,N,O,P; 1	07 A; <u>97 C</u> ; 116 N,O,P; <u>95 N</u>	1						
710022* (3522)	Carboniferous and Permian biostratigraphy and coral faunas, western and northern Canada	Bamber, EW	ISPG	P	MaP	Frank Mack Yk <u>BC</u> <u>Alta</u>			
	Obj: Establishment of faunal sequence Alberta, British Columbia, Yukon, a in surface and subsurface explorati document the above succession an organizations.	and District of Mackenzie, on of these areas. Descrip	for use as	s a biostrat oral and oth	igraphic re er faunas :	eference succession from these areas to			
	NTS: 49; 59; 69; 78; 79; 82 G,H,J,M,N,O;	<u>83 B,C</u> ,D,E,F,G; <u>92 I</u> ; 93 I,C	); 94-95;	103-106; 11	5-117; 340	; 560			
710023 <sup>-</sup> (3531)	Granite studies in the Slave Province (Phase 1)	Davidson, A	LCS	-	SG	Mack			
	Obj: To classify the granitic rocks accommoder available, and to relate them NTS: 85 I,P					physical parameters			
710033 (3521)	Northern Basin Analysis Program: Redstone and Great Slave Lake map-areas	Williams, GK	ISPG	PG	PR	Mack			
	Obj: 1. To maintain an up-to-date involutional lithologic logs within the Great	Slave Lake and Redstone M	ap-areas.			•			

 To provide an improved understanding of the geological history of the northern Canadian mainland.
 To compile, in a form suitable for publication (primarily Open File format) all data and ideas so far accumulated.

NTS: 85; 95

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
710059* (3543)	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 se margin and the basin; delineate composition, provenance, current resource evaluation of this region.	e distribution of clasti patterns, depositional e	c, carbonate,	evaporite	sequence	s, their thickness,		
710061 (3543)	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 study of the petroleum potential of the Magdalen and Sydney basins.							
	NTS: 1; 2; 10; 11; 12; 14; 20							
710065 (3543)	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 offshore wells of the Atlantic Sh accurately reconstruct geological region.	elf, to form the basis of	of local, region	nal and we	orld wide	correlation, and to		
710091* (3522)	Palynological studies of Mesozoic and Tertiary coal measures in western and northern Canada	Sweet, AR	ISPG	P	MiP	BC <u>Alta</u> Yk		
	Obj: To establish palyno-stratigraphic sedimentological and structural in Where applicable to correlate coal To describe and classify recovered	terpretations of coal bas I seams by means of spor	ins. e and pollen hi	istograms.				
	NTS: <u>82</u> B,C, <u>G,H,I,J</u> ; 83 C,E,F; 106 E; 1	17 A; 104 H						
720044 <sup>-</sup> (3522) <b>CUF</b>	Reconnaissance of Mesozoic Foraminifera of Arctic Islands REFIGURATION ASSESSITE ASSENDIAGE COMPOSI	Wall, JH	ISPG Diochronologic	P al significa	MiP	Frank sozoic Foraminifera		
	NOT the VAILABLE in order to be NTS: 49; 59 E,G,H; 69; 79; 88; 89; 98; 34		surface and o	utcrop stra	tigrapny.			
720052	Geology of Indin Lake (86 B)	Frith, RA	LCS	_	BS	Mack		
(3531)	Obj: To revise and interpret to moder through early reconnaissance and	rn standards the geology		ambrian te				
	NTS: 86 B							
720056 <sup>-</sup> (3531)	Paleomagnetism of the dykes of west Greenland	Fahrig, WF	LCS	-	PMag	-		
	Obj: To determine the paleomagnetism correlation of the rocks of this are					examine the possible		
720062 (3531)	Volcanic rocks of the Prince Albert Belt	Schau, M	LCS	-	NC	Frank Kee		
	Obj: To determine the structure, strar relationship to the adjacent gne potential of the belt.							
	NITC LT S D EC S IC							

NTS: 47 A,D; 56 J,K

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
720066 (3526)	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* (3573)	Airborne Gamma-Ray Spectrometry (Experimental Surveys)	Holman, PB	MR	EGP	RG	Man <u>NB</u> Ont Que Sask <u>Nfld NS</u>			
	Obj: 1. Provide acceptable standards for the acquisition and compilation of airborne gamma-ray spectrometic data.  2. Demonstration of suitability of airborne gamma-ray spectrometry methods in various parts of Canada by:  - conducting orientation surveys in advance of U.R.P. contract surveys.  - conducting reconnaissance surveys maps.  - conducting detailed follow-up surveys of areas of interest located by URP program.  3. Have available the technology and personnel to respond to nuclear accidents where aircraft monitoring is required.  NTS: 31 E.F.L.M; 21 G.H.J.O; 11 E; 64 H; 74 I.J.K; 2 D								
720072 (3522)	Paleozoic ostracodes of Canada	Copeland, MJ	ISPG	P	OP	Ont Que NB NS Nfld			
	Obj: By means of microfaunas and non-tr the Paleozoic sedimentary basins of	ilobite Arthropoda to deter Canada and thus aid in asso	mine the essing the	zonation ar economic	nd correlat potential o	tion of strata among of these rocks.			
	NTS: 11 E,F,K; 12 B,E,L; 21 A,H,P; 22 A,I	B,H; 30 L,M; 40 I,P							
720078 (3551)	Diatom analysis and paleoecological studies of Quaternary sediments	Federovich, S	TS	QE	PEc	Frank Ont			
	Obj: 1. To develop diatom analysis as a analyses. 2. To provide paleoecological integrations.	erpretation and biostration	•	-					
700000	NTS: 38; 39; 48; 49; 59; 340; 560; 41 I; 31								
720080 (3533)	Interpretation of aeromagnetic surveys	Kornik, LJ	LCS	<u>-</u>	LG	-			
	Obj: To express the significance of aeror support of mineral exploration, geol information with other types of geos	ogical mapping and nuclear							
720081 (3551)	Surficial geology and geomorphology of Central Ellesmere Island	Hodgson, DA	TS	QG	-	Frank			
	Obj: To provide an inventory of surfice permafrost conditions, with partice territorial Land Use Regulations activities.	ular reference to terrain	informati	on pertine	nt to the	implementation of			
	NTS: Pts 49 C,D,E,G,H; 340 B								
720084* (3573)	Gamma-Ray Spectrometry (Technique Development)	Grasty, RL	MR	EGP	RG	Ont			
	Obj: To develop improved methods of air	borne gamma-ray spectrom	etry data	collection,	analysis a	and presentation.			
	NTS: 31 C								
720098 (3521)	Lower Paleozoic stratigraphy, southern Rocky Mountains	Aitken, JD	ISPG	RG	M	BC Alta			
	Obj: To determine the nature, thickness,	distribution and origin of L	ower Pale	eozoic form	ations of 1	the region.			
	NTS: 82; 83								

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
720102 (3550)	Marine Science Atlas of the Beaufort Sea	Pelletier, BR	TS	QE	-	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,I	D							
720103* (3543)	Hydrocarbon inventory of the sedimentary basins of eastern Canada	Bell, JS	AGC	EPG	SGBM	Atlantic Offshore			
	Obj: To provide, in a timely manner, geologic of eastern Canada when requested secretariat.  To assist in the integration and interpretable of the control o	to do so by the Execu	utive Dir	ector, Peti	roleum Re	sedimentary basins esources Appraisal			
720104 (3543)	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 subsurface geological interpretation of the Atlantic continental margin of Canada as a basis for: 1. the Departmental Hydrocarbon Inventory; 2. to establish a framework for other specific studies such as lithostratigraphy, biostratigraphy, geochemistry, plate tectonics, etc.								
	NTS: 21 A,H								
730013 (3552)	Quaternary geology inventory — Southern Keewatin	Shilts, WW	TS	-	SR	Kee			
	<ol> <li>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'.</li> <li>To produce maps for open filing at scales of 1:125,000 based on 1:250,000 NTS sheets,</li> <li>To collect regional samples of till to describe its sedimentology, geotechnical properties, and geochemistry.</li> <li>To elucidate the history of the south and central portions of the Keewatin Ice Divide.</li> </ol>								
	NTS: 65 A-C,F-K,N-P; 55 D,E,F,L,K,N,O;	66 A-C,F-K,N-P; 56 D							
730019* (3551)	Light drilling and sampling research and support	Nixon, FM	TS	QG	-	Mack			
	Obj: To support Section and Division red Geotechnique with emphasis on light sampling technique and equipment in co-ordinating systems and procedure	equipment and remote wo order to evaluate proposa	ork by (a) als and su	maintainin ggest possil	g an exper pilities, and	rtise in drilling and d (b) developing and			
	NTS: <u>107 C</u>								
730027 (3551)	Late Cenozoic fossil insects and Late Cenozoic paleoecology	Matthews, JV Jr	TS	QE	PEc	Ont Que Yk			
	Obj: To provide biostratigraphic and pale interpretation of their age and environments.		late Cer	nozoic terre	estrial sedi	iments as an aid to			
	NTS: 21 E,L; 31 G,H,I; 115 L; 116 J,K								
730035	Operation St. Elias	Campbell, RB	С	-	CMG	Yk BC			
(3511)	Obj: To determine the stratigraphy, structure assess the mineral potential of the ar		relationsl	nip of intrus	sive and vo	lcanic rocks, and to			
	NTS: 114 P,O; 115 A-C,F,G								
730037 (3511)	Stratigraphy, structure, and metallogeny of Pelly Mountains, and Yukon Plateau, Yukon Territory	Tempelman-Kluit, DJ	С	-	CMG	Yk			
	Obj: To provide information on the rela deposits in Pelly Mountains and adjace		aphy, str	ucture, sed	imentary :	facies, and mineral			
	NTS: 105 A,F,G,H								

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.	
730040* (3531)	Archean volcanic studies in the Bear-Slave Province	Lambert, MB	LCS	-	BS	Mack	
	Obj: To determine 1) stratigraphic and s volcanic eruptions and their envi stratigraphy and volcanic processes.	ronment of deposition;	tion of v 4) relation	olcanic cent onship of n	tres; 3) sec nineral de	quence and types of posits to volcanic	
	NTS: 76 B,C,F,G						
730043 (3531)	Volcanic rocks of the Appalachian region	Bostock, HH	LCS	-	BS	NB NS Nfld	
	Obj: To determine the physical volcano volcanic rocks of the Appalachian formation of associated mineral dep	Orogen in order to relate	, environ them to	ment, age the evoluti	and tector on of the	nic relations of the orogen and to the	
	NTS: Pts 2 E/12, 5; 12 H						
730044* (3531)	Granite studies in the Appalachians	Currie, KL	LCS	-	PET	NS <u>Nfld</u> <u>NB</u>	
	<ol> <li>To establish a set of criteria based on field, petrographic and chemical observations, by which granitoid rocks in the Appalachian region can be assigned to a limited number of well defined classes;</li> <li>to establish the physical conditions of emplacement, fractionation trends, solidification history, and subsequent deformation of each of these classes;</li> <li>to relate these classes to the tectonic development of the Appalachian region;</li> <li>to evaluate the economic possibilities of each class, and possible factors enhancing these possibilities.</li> </ol>						
	NTS: 2 E; <u>12 A</u> ,H; <u>21 G</u> ,H						
730051 (3521)	Completion of reconnaissance geology, northern Ellesmere Island	Trettin, HP	ISPG	RG	AI	Frank	
	Obj: To prepare terminal reports accommodite the Eureka sound sheet (NT	S 340, 560, 120) of the 1:1 r	on at the	scale of 1: cological atl	250,000 or as program	more detailed. To	
	NTS: 340 A-F,H; 120 B,C,F,G; 49 H; 560	D,E,F,G,H					
730057 (3521)	Helikian and Hadrynian stratigraphy Eastern Cordillera and Interior Platform	Aitken, JD	ISPG	RG	M	Mack Yk	
	Obj: Firstly, to establish a coherent pic and secondly, to emphasize study of deposits.	ture of Helikian and Hadry f those events that may ha	nian eve ve create	nts in weste d exploitabl	ern and no le mineral	rthwestern Canada, and/or hydrocarbon	
	NTS: 95 L,M; 106 A,B,C,F,G,H; 105 P						
730062 (3523)	Development of extraction, identification and correlation systems for organic compounds from sedimentary rocks and crude oils	Brooks, PW	ISPG	PG	GC	-	
	Obj: To develop, improve and adapt identification of petroleum source and/or apply statistical methods organizations in order to correlate storage systems.	rocks and to assist in sou	rce rock-	oil and oil- ted in the	oil correlation oil correlatio	ations. To develop and from outside	
730067* (3511)	Geothermal Energy Resources in Canada	Souther, JG	С	-	CMG	<u>BC</u>	
	Obj: To make an inventory of the dischemistry of their waters. To prov. NTS: 92 J	tribution, nature and geol ide a base of geological info	ogical se ormation	etting of ho and expertis	ot springs se for geot	in Canada and the hermal results.	
730072* (3541)	Bedrock and surficial geology- Grand Banks	Fader, GB	AGC	RR	SBG	Atlantic Offshore	
	Obj: To contribute to our knowledge an broad tectonic setting of the Grand	d understanding of the sur Banks; and to aid in the ec	face and onomic e	subsurface valuation of	geology, g the regior	eologic history, and	
	NTS: 1; 2; 11						

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
730081 (3541)	East coast potential fields	Macnab, RF	AGC	RR	GPS	Atlantic Offshore			
	Obj: To acquire and compile potential field data in the Canadian East Coast offshore and adjacent oceanic basins, support of investigations in various areas: deep composition of passive margins, boundary disputes; fronti energy; and LOS issues.								
740003 (3543)	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 and history of the sedimentary basins in the offshore regions of Eastern Canada.								
	NTS: 1-16; 27; 28; 38; 39								
740017 (3531)	Metamorphism in the Canadian Shield	Fraser, JA	LCS	-	NC	Que Ont Man Sask Nfld Mack Frank Kee			
	Obj: To provide suitable maps and studies on metamorphism of the Shield which will focus on this parameter in suc way as to make a unique contribution to the understanding of the development of the Shield; and to prov regional and local information on metamorphic grade and history which will be of use in evaluating mine resource potential of the Canadian Shield.								
740019 (3531)	Archean felsic volcanic complex near Regan Lake, District of Mackenzie, NWT	Lambert, MB	LCS	-	BS	Mack			
	Obj: 1. To map in detail the felsic volce 2. to establish criteria for the ide Province; 3. to establish a model for the hi	entification and interpretati		•					
	Slave Province to provide a basing NTS: Pts of 76 B,C,F,G					•			
740042 (3522)	GSC Workshop travel — Micropaleontology Section	McNeil, DH	ISPG	P	MiP	-			
	Obj: To exchange information on curr microfossils, during workshops of communication between the specia	GSC's specialists; to plan	s relating programs	to palyno in these	logy, fora fields and	minifers and other generally improve			
740062	Fraser Delta sedimentation	Luternauer, JL	С	-	PMG	ВС			
(3512)	Obj: To provide a geological/sedimento land and waterfront planning and e	logical knowledge base abounvironmental management.	ut the act	ive delta of	the Frase	r River for general			
	NTS: 92 G								
740065 (3551)	Surficial geology inventory, Banks Island	Vincent, J-S	TS	QG	-	Frank			
	Obj: To map, describe and explain the unconsolidated deposits, landforms, permafrost, ground ice and organic cand 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 (3551)	Surficial geology-terrain inventory, Bathurst-Cornwallis and eastern Melville Islands	Edlund, SA	TS	QE	PEc	Frank			
	Obj: Map, describe and explain the surring knowledge of geology, geomorphol and various aspects of engineering	ogy and terrain as backgrou	and inform	nation suita	ble for lar	nd use management			

al nt and various aspects of engineering construction and to determine the Quaternary history of the region.

NTS: 68 E-H; 69 A,B; 78 E-H; 79 A,B

Project Number		Title	Project Leader	Div.	Subdiv.	Sec.	Prov.	
740068* (3551)	Surficial Valley lo	geology, Ottawa wlands	Richard, SH	TS	QG	-	Ont Que	
	31 pla	map, describe and explain the un F (parts of) and 31 B (parts of) in nning, agriculture, urban and indus Quaternary history of the region.	n order to provide geology	and ter	rain inform	ation pert	inent to land use	
	NTS: Pts	31 B,C,F, <u>G</u>						
740072*	Surficial	geology of Newfoundland	Grant, DR	TS	QG	-	Nfld	
(3551)	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 N	1; 2; Pts <u>11 0; 12</u> A, <u>B,G,H,I</u>						
740081*	Environm	nental Geochemistry	Jonasson, IR	MR	EGC	ER	BC	
(3574)	<ol> <li>Understand the nature of physical and chemical processes which influence the dispersion of elements in the surficial environment.</li> <li>Coordinate subdivision activities relating to environmental matters.</li> <li>Provide appropriate surficial chemical and lithochemical support to Cordilleran sedimentary basin analysis studies.</li> <li>Develop research program in geochemistry of geothermal fluids, both continental and submarine; and hence determine modes of genesis of epithermal mineralization on land and under sea.</li> </ol>							
	NTS: 74	H,I; 64 E,L; 92 E,F; 94 F,G; 95 E,F;		idilu dilu (	Ilider sea.			
740084* EURR	Silurian-C	Ordovician macro- NFORMATION LOGICABLE the Silurian and Contain data.	Bolton, TE	DGO	_	SP	Que NB NS Kee Ont	
	reg 1. 2. 3.	gions to provide: precise descriptions for all approchange, faunal content; descriptions of significant fauna follocal and regional correlations con	opriate stratigraphic units or each stratigraphic unit; assistent with the data.	of their				
	NTS: 22	A,B, <u>D</u> ,H; 12 E,F,L; 18; 11 F; 45; 46	s; 31 G,H; <u>32 A</u>					
	Obj: NO eff	Geophysics (Electrical  Ticlipper MATION  TAVAILABLE  Contribute to the development  icinical and effectiveness of miner	Dyck, AV of borehole mining geophral exploration practices, g	MR  nysics tec	EGP chnology as al technique	BG a means es applied t	BC Ont Que NB Man Sask Nfld of improving the to engineering and	
	0	blogical mapping. <u>1,</u> 1; 52 <u>B</u> ; 31 F,K; 74 H,I; <u>64</u> C, <u>H</u> ,L;	62 I: 32 D.E. 12 A					
740098* (3571)	Metallog	geny of the northern	Dawson, KM	MR	MD	RMS	<u>BC Yk</u>	
	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; and  3. assess the area with regard to its mineral potential.							
	NTS: 92	H,J,O; 82 K,M; 103 G; 104 N,O,P;	105 A,B,F,G; <u>95</u> D,E,L; <u>114</u>	P				
740107* (3574)	Trace ele	ements in sulphides	Jonasson, IR	MR	EGC	MDG	Ont BC Yk Mack Que	
	2.	To determine the typical contents metalloids and non-metals in ores, To assess the value of such data metals, definition of geochemical To provide a systematic geochem of Canada's economic zone, west	ore minerals and accessor a with regard to classific and metallogenic province ical inventory for regional	y mineral ation of s, establis	s. ores, estim shment of e	ates of or	e reserves of rare t baseline levels.	

NTS: 42 A; 32 D; 31 A,B,C,F,M,P; 94 F,G; 104 N; 101 A,B

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Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.				
750006 (3531)	Stratigraphy and petrology of the Natkusiak Basalts, Victoria Island	Baragar, WRA	LCS	-	SP	Frank				
	Obj: To determine the variation in chemical composition and petrography of the lavas with stratigraphic level, to obtain representative bulk compositions of the flows, to determine relationships between the composition of the flows and associated copper prospects and between the flows and accompanying sills, and to obtain contributory information towards an understanding of late Precambrian tectonic history in the northwestern Canadian Shield.									
	NTS: Pts of 77 G; 78 B; 87 E,F,G,H; 88 A,B									
750010* (3571)	Geology of Uranium and Thorium Resources in Canada	Ruzicka, V	MR	MD	RMRA	Ont Kee         Sask Mack           Que         NS           Nfld         NB				
	Obj: To carry out comprehensive research on the geology of uranium and thorium deposits in order to: 1. support or provide geologically based estimates of Canada's uranium and thorium resources; 2. provide guidelines for their discovery; and 3. provide advice to government for nuclear energy policy and related matters.									
	NTS: 41 I,J; 52 A,H; 64 E,L; 74 G,H,I; 65; 7	<u>5; 21</u> ; 22 M; 23 D; <u>12</u> ; <u>20 P</u>								
750011 (3531)	Geology, petrology and economic potential of the anorthosite suite in southern Labrador	Emslie, RF	LCS	-	PET	Nfld				
	<ol> <li>Obj: 1. Comparison of rock types, rock and mineral chemistry, and structures with similar features north of the Grenville Front.</li> <li>Estimation of the grade of regional metamorphism in this part of Grenville Province.</li> <li>Determination of age of the anorthosite suite of rocks.</li> <li>Investigation of the economic mineral potential of the anorthositic rocks.</li> </ol>									
	NTS: 13 B,C,E,F,G; <u>23 A</u>									
750023 (3526)	Methodology of petroleum resource evaluation	Lee, PJ	ISPG	PRAS	-	-				
	Obj: To provide a reliable, effective and s	tatistically valid methodolo	ogy for es	timation of	resource a	bundance.				
750035* (3511)	Biostratigraphic study of Mesozoic rocks in the Inter- montane and Insular Belts of the Canadian Cordillera	Tipper, HW	С	-	CMG	<u>BC</u> Yk				
	Obj: To determine the biostratigraphic s geological history and paleogeography				ly Jurassic	, and to define a				
	NTS: 92 H,L; 93 E; 94 D; 103 C,F,G; 104 H	-K, M,N; 105; 115								
750036 (3522)	Silurian and Devonian spores of Canada	McGregor, DC	ISPG	P	OP	-				
	Obj: To refine palynological methods of da 1. identifying and describing Silurian 2. determining their value in terms of 3. establishing stratigraphic referent basins in Canada.	n and Devonian spores; of regional and world wide	biostratig	raphy; and						
750039 (3574)	Automated Geochemical Cartographic Development	Ellwood, DJ	MR	EGC	RGS	-				
	Obj: To develop new methods and improve computer systems which use these n scales.	e established methods of m nethods, and to produce go	napping ge eochemica	eochemical al maps in	data by con various for	mputer, to develop ms and at various				
750043* (3542)	Consulting advice on physical environmental problems in the coastal zone	Taylor, RB	AGC	EMG	SG	Nfld <u>NS NB</u>				
	Obj: To provide consultation and expertise advice is to be provided in response to		ems in th	ne coastal z	one of the	e Maritimes. This				
	NTS: 10 N; 11 D,K; 21 H,P									

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
750051*	National geochemical	Hornbrook, EHW	MR	EGC	_	_		
(3574)	<ol> <li>To provide for governments and industry nationally consistent, systematic, multi-element, reconnaissance data to indicate areas of mineral commodity potential for exploration and resource appraisal purposes and to provide information on the natural abundance of elements in the environment.</li> <li>To investigate geochemical variability in lake surveys in various terrains.</li> </ol>							
750061* (3531)	Lower Paleozoic geology of Eastern Canada	Sanford, BV	LCS	-	SP	Ont Que		
	<ol> <li>To continue detailed and regional studies of Lower Paleozoic terrain of eastern Canada,         <ul> <li>in northern and eastern offshore regions, reconnaissance mapping on an opportunity basis and</li> <li>in the southern regions, detailed mapping when required for terrain studies.</li> </ul> </li> <li>To study all data that become available from petroleum exploration for purposes of hydrocarbon evaluation of the frontier basins.</li> </ol>							
	NTS: Pts 30; 31; 40; 41; 52; 21							
750063* (3551)	Quaternary geochronology, Arctic Islands	Blake, W Jr	TS	-	Α	<u>Frank</u>		
	Obj: 1. To establish a chronostratigraphic 2. To investigate the suitability of of <sup>14</sup> C.	other methods of age de						
	<ol> <li>To determine rates of crustal mov</li> <li>To reconstruct environments and</li> </ol>		ernary tir	ne as possil	ble.			
	NTS: 25-28; 29 F,G; 35-37; 38 F,G; 39 B,0 340; 560	C,E-H; 47; <u>48 E,H; 49 A,B</u>	<u>,D,E,H</u> ; 5	7-59; 67-6	9; 77-79; 8	37-89; 97-99; 120;		
750068 (359)	Interdepartmental & Intergovernmental Technical Services	Manistre, BE	DGO	-	-	-		
	Obj: To provide technical assistance to o Geoscience Aid projects as require intergovernmental agreements, and a	ed by the EMR/CIDA M	iemorandu	ım of Und	lers tanding	in connection with To coordinate		
750069* (3571)	Geology of uranium resources of Canada 3	Bell, RT	MR	MD	RMRA	BC Yk Mack Alta Sask Man Que Nfld		
	Obj: To carry out comprehensive research the Canadian Shield in order to: 1. provide or support geologically ba 2. provide guidelines for discovery o 3. provide advice to government for	sed estimates of Canada's f deposits; and	uranium r	esources;	tary basins	in Canada west of		
	NTS: 23; 24; 105; 115; <u>82 E</u>							
750072 (3551)	Quaternary geology, terrain inventory, northeastern Manitoba	Dredge, LA	TS	QG	-	Man		
	Obj: To map, describe and explain the und order to provide areal knowledge of and engineering construction, to p Quaternary history of the region.	geology and terrain as bac	kground i	nformation	relative to	land use planning		
	NTS: 54 D,E,F,K,L,M; 64 I,J,K,L,M,N,O,P							
750074 (3552)	Uranium drift prospecting techniques, Lower Kazan River area	Klassen, RA	TS	QG	-	Kee		
	Obj: To study glacial and postglacial proc and to investigate the use of till in m					nd other sediments		
	NTS: 55 M,N,L; 56 C,D; 65 P,I,O; 66 A							
750076* (3551)	Quaternary geology of the Canadian Cordillera	Fulton, RJ	TS	QG	-	BC Yk Alta Mack		
	Obj: To gather and synthesize information of the Canadian Cordillera.	n regarding Quaternary dep	osits, stra	itigraphy, g	eomorpholo	ogy and chronology		
	NTS: 82; 92; <u>93 B,G</u> ; 103; 105 M; 115 P							

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.	
750083 (3521)	Mesozoic stratigraphy and Basin analysis of Sverdrup Basin, Arctic Archipelago	Embry, AF	ISPG	RG	AI	Frank	
	Obj: 1. To determine regional stratigrap 2. To determine environments of de 3. To determine the geologic histor 4. To assess the economic potential	eposition of the strata. y of the Sverdrup Basin duri					
	NTS: 29; 39; 49 E-H; 59 H; 69; 79; 87; 99;	120; 340 B,C; 560 A					
750088 (3524)	Investigations concerning the optical properties of coals and dispersed organic materials	Kalkreuth, WD	ISPG	CG	СТ	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.						
	NTS: <u>83 F</u>						
750094 (3571)	Development of computer-based statistical techniques applicable to regional geological and mineral deposit data	Chung, CF	MR	EG	MAG	-	
	Obj: Develop and apply statistical technological data and mineral deposit data.	niques as an input to metho	ods for re	egional reso	urce evalu	ation of geological	
750098* (3571)	Metallogeny of the south- western part of the Canadian Shield	Franklin, JM	MR	MD	MDG	Man Sask Que Ont Frank Kee Mack	
	Obj: To provide a regional synthesis of t of Long. 25°, in order to determ prospecting and to the economic de	ine the origin, setting and	of the Ca d distribu	nadian Shie ution of mi	ld south of neral depo	Lat. 60° and west osits as an aid to	
	NTS: 31; 32; 41; 42; 43; 52; 53; 54; 62; 63	; 64; 73; 74					
750102 (3531)	Regional syntheses, southern Keewatin, Project I	Eade, KE	LCS	-	NC	Kee	
	Obj: To provide a single comprehensive presentation broad regional and te familiar with the geological data ar	ctonic synthesis; and to ha	ve a desi	ignated "ex	repare and pert" who	have available for will be thoroughly	
	NTS: 65 C						
750108* (3512)	Marine surficial geology and sedimentation, British Columbia	Bornhold, BD	С	-	PMG	<u>BC</u>	
	Obj: In order to provide the sedimentological framework and geological perspective for environmental concerns and landmass description:  1. map, describe and explain in a systematic manner the physiography, surficial deposits, processes and history of the Pacific continental shelf, slope, deep sea, straits, and fiords of British Columbia;  2. determine the composition, distribution, transport mechanisms and flux of suspended particulate matter in the marine waters off the British Columbia coast.						
	NTS: <u>92 K</u> ; <u>103</u> A,B,F,G, <u>J,K</u>						

Findlay, DC MR EG 750110 Federal-Provincial and Federal (3571)Territorial mineral evaluation liaison and co-ordination

> Obj: To provide technical advice and liaison on the Geological Survey's involvement in the design and monitoring of joint federal-provincial actions in mineral resource evaluation and development; to participate, as required in the co-ordination, implementation, and management of such projects; same for mineral evaluation projects in northern Territories (Yukon, NWT) conducted by GSC in cooperation with other agencies (eg. DINA).

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.				
760010* (3551)	Surficial geology, geomorphology and terrain inventory of the Ringnes and adjacent islands	Hodgson, DA	TS	QE	-	Frank				
	Obj: To map, describe and explain surf base data necessary for land manaregion.	icial materials, landforms agement, for engineering st	, vegetation a tudies and to	and active determine	processes, the Quate	in order to provide rnary history of the				
	NTS: 59 B,C,F; 69 A,C,D,E,F; <u>79 D</u> ,E; 6	8 G,H; 78 H; 88 G,H; 89 A	В							
760014 (3571) <b>C</b> l	Geology of uranium URRENT! THEORIMATION	Dunsmore, HE	MR	EG	MDG	NS NB Nfld Que				
	Obj <b>NOT</b> pr <b>AVAH</b> r <b>AB</b> r <b>b</b> on the ge 1. support or provide geologically 2. provide guidelines for their dis 3. provide advice to government	v based estimates of Canad scovery;	la's uranium r							
	NTS: 11; 12; 21									
760015 (3541)	Eastern Baffin Island shelf bedrock and surficial geology mapping program	MacLean, B	AGC	RR	EAOG	Arctic Offshore				
	Obj: To investigate and map the geol unconformity on the eastern Baff and surficial data in a regional of sample data. To investigate the eastern Baffin Island shelf and adj	in Island shelf and adjoinir context and to check the v e distribution and geologi	ng areas. To validity of ge	obtain ge ophysical	ophysical o interpretat	lata to put bedrock ion against bedrock				
	NTS: Pts 15; 16; 17; 25; 26; 27; 28; 38									
760023 (3531)	Precambrian geology of south- east Ellesmere, Devon and Cobourg Islands	Frisch, T	LCS	-	NC	Frank				
	Obj: To complete the reconnaissance geological mapping of the northern Churchill Province.									
	NTS: Pts 38 B; 39 B-H; 48 E-H; 49 A,B	,D,E,H								
760024 (3531)	Keskarrah Bay map-area, District of Mackenzie, NWT	Henderson, JB	LCS	-	BS	Mack				
	Obj: To determine the extent and significance of Archean basement rocks in the area; to identify stratigraphic control of base metal mineralization to improve understanding of iron formations and their significance in the region; and to obtain a better understanding of the evolution of an Archean basin in the Slave Province.									
	NTS: 86 H/2,3,6,7									
760026 (3531)	Geology of Penrhyn Fold Belt, Melville Peninsula, NWT	Henderson, JR	LCS	-	NC	Frank				
	Obj: To determine the structural, metamorphic, stratigraphic and age relations between basement gneisses and migmatites, and the covering Penrhyn Group metasedimentary gneisses and schists. To elucidate the structural development of polyphase folds in an area of high-grade metamorphic rocks. To provide structural-stratigraphic and isotopic age bases for regional correlation.									
	NTS: 46 O,P; 47 A									
760027*	Redbed sequences in Canada	Chandler, FW	LCS	-	PET	Ont Que				
(3531)	Obj: To determine the origin and sed the influences of climate, topogra the processes which contribute to	aphy, weathering, sediment	ation and dia	genesis on	their origi	n; and to determine				
	NTS: Pts 31; 41									
760042* (3522)	Jurassic biostratigraphy and paleontology of selected areas of western and Arctic Canada	Poulton, TP	ISPG	P	MaP	BC Alta Yk Frank Mack				
	Obj: To provide detailed biostratigra Columbia, Alberta, Yukon Territa describe tayonomically the most	ory and Northwest Territor	ries, by field	rassic rock work and	ks of select study of su	ted parts of British bmitted fossils. To				

ish describe taxonomically the most important faunal elements.

NTS: <u>82</u> G,J,N,O; <u>83</u> C,E; 92 H,L,N,O; 93 O; 94 B; 103; 104 I,J; 105 D; 106 D,M; 107 M; 115; 116 A,B,C,N,O,P; 49; 59; 69; 79; 89 A; 340 D; 560

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
760047 <sup>-</sup> (3574)	Regional geochemistry-Northern Canadian Shield	Maurice, Y	MR	EGC	GMR	Mack Kee Frank Sask		
	Obj: To determine the nature and factors stream and lake waters and sediment. evaluate the effectiveness of the specifications; 2. provide methodology for interprecular assess the mineral potential of values.	ts, etc. in order to: ne NGR program (project eting and following up NGI arious regions and rock un	750051) ai	nd improve	the opera	ting techniques and		
	NTS: 76 H,I; 75 E,F-K; 74 H; 46 N,O,P; 47	A,B,E,F						
760053 (3523)	Hydrocarbon geochemistry of Arctic Archipelago	Snowdon, LR	ISPG	PG	GC	Frank		
	Obj: To determine presence or absence reasonable gas/oil ratios may be of maturation isopleths can be plotted hydrocarbons dispersed in fine grain regions or plays.	determined; to calculate d and used to map proba ined rocks in order to es	probable able petrol	or maximu eum regior	m matura	tion levels so that ntitatively evaluate		
	NTS: 98; 88; 78; 68; 58; 99; 89; 79; 69; 59;	49; 560; 340						
760054 (3523)	Hydrocarbon geochemistry of Canadian East Coast offshore	Snowdon, LR	ISPG	PG	GC	Atlantic Offshore		
	Obj: To determine presence or absence and quality of petroleum source rocks and petroleum product type so that reasonable gas/oil ratios may be determined; to calculate probable or maximum maturation levels so that maturation isopleths can be plotted and used to map probable petroleum regions; to quantitatively evaluate hydrocarbons dispersed in fine grained rocks in order to estimate relative amounts of petroleum in various regions or plays.							
	NTS: 14; 3; 10; 11; 20							
760056 (3524)	Resource evaluation and geology of coal deposits of western Canada	Dawson, FM	ISPG	CG	RE	Alta		
	Obj: To conduct resource evaluation programs required for the National Coal Inventory and to recommend the office and/or-field studies to be undertaken to meet the requirements of the inventory program. To acquire industry and provincial government data on Canada's coal deposits. To study the geological framework within which these coals occur. To provide authoritative advice to senior Departmental officials and to scientists in government and industry on the resource potential of Canada's coal deposits. To maintain an up-to-date knowledge of coalfields in Canada.							
	NTS: 83 A,H							
760058* (3551)	Vegetation distribution and relationships to surficial materials and climatic patterns — Arctic region	Edlund, SA	TS	QE	PEc	<u>Frank</u> Mack Kee Yk Que Nfld		
	Obj: 1. To map and describe vegetation Arctic. 2. To relate modern vegetation dist 3. To derive data on Holocene vegetation analogue.	tribution with surficial ma	iterials and	l climatic p	arameters	•		
	NTS: <u>78 A,B,D; 77 G,H</u>							
760061* (3531)	Regional synthesis of the Grenville Province in Ontario and western Quebec	Davidson, A	LCS	-	SG	Ont Que		
	Obj: To effect a regional synthesis of t interpret the synthesis in terms of of the Grenville Province as a whole	the geological evolution of	ille Provinc of the area	ce in Ontar , and in coo	io and wes	stern Quebec and to with project 750062,		
	NTS: Pts 31; 41; 32							
760062* (3521)	Geology of bedded phosphates deposits in Canada	Christie, RL	ISPG	RG	AI	BC Alta		

Obj: To identify Canadian phosphate resources and to develop an understanding of the regional geology relationships: patterns and occurrences, associations, facies, paleogeography, etc.

NTS: 82

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
760063 (3523)	Hydrocarbon geochemistry of northern interior plains and Beaufort Sea	Snowdon, LR	ISPG	PG	GC	Yk Mack
	Obj: To determine presence or absence reasonable gas/oil ratios may be maturation isopleths can be plott hydrocarbons dispersed in fine granegions or plays.	determined; to calculate ped and used to map probab	probable o ble petrole	or maximum eum regions	n maturation; to quant	on levels so that itatively evaluate
	NTS: 106; 107; 117					
760064 (3571)	Geology of Mineral Resources in the Oceans	Gross, GA	MR	-	SP	
	Obj: 1. To provide a base of geologic possible extent of ocean minera 2. To provide a direct and independent implications of their developm Canadian mineral products.	I resources, and for evaluation and competence	ng their si for evalu	gnificance t ating these	resources	and for appraising
760065 (3567)	Digital Compilation of Queenair Aeromagnetic Data	Anderson, KW	G	Α	GDP	-
	Obj: 1. Compilation and publication of survey operations. 2. Improve modes of operations and 3. Maintain up-to-date bank of data	nd presentations of the above	data as n	ew compute	r facilities	develop.
770001* (3511)	Study of the Cenozoic Evolution of the Western Cordillera	Souther, JG	С	-	CMG	BC Yk
	Obj: 1. To compile and publish a review 2. To obtain data from selecter relationships. 3. To publish a series of topical pevolution of the Cordillera.	ed areas where additional	data are	e required	or which	
	NTS: Pts of 82; 92; 93; 103; 94; 104; 95;	105; 115 A-C; 106; 116; 117;	114 O,P			
770004* (3543)	Reconnaissance field study of the Mesozoic sequences out- cropping on the Iberian Peninsula	Jansa, L	AGC	EPG	SGBM	-
	Obj: To provide evidence that the sedin beneath the Grand Banks.	mentary sequences of the Ibe	erian Peni	nsula are co	-eval with	similar sequences
770006* (3512)	The Canadian Pacific Continental Margin	Yorath, CJ	С	-	PMG	<u>BC</u>
	Obj: To describe the geological archincluding the Insular Belt and adjathe region.	itecture and tectonic histo cent offshore. To contribut	ory of the	e Canadian realization (	Pacific C of the eco	ontinental Margin nomic potential of
	NTS: 92 C,D,E,L; 102 H,I,O,P; 103 B,C,F	<u>-,</u> K				
770013	Operation Borden	Jackson, GD	LCS	-	NC	Frank
(3531)	Obj: A study of the stratigraphy, sedin and ULUKSAN GROUPS) of norther the underlying basement gneisses. strata of west Greenland and Arcti	ern Baffin and Bylot Islands, A basin analysis will supply	and of th	e relationsh	ips betwee	n these strata and
	NTS: Pts of 37 A; 38 B,C; 48 A-D					
77001 <i>5</i> (3567)	High Resolution Aeromagnetics (Instrumentation Development)	Sawatzky, P	G	A	-	-
	Obj: To improve the performance of t sensitivity, precision, reliability, e		resolution	/gradiomete	r survey sy	ystem, in terms of

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
770016*	Operation Dease	Gabrielse, H	С	_	CMG	BC		
(3511)	Obj: 1. To complete and update the 1:25 Spatzizi. 2. To publish reports of field activitie 3. To complete and publish a final m Lake map-area.	es and papers on specific as	spects of	the geology	of the reg	ion.		
	NTS: <u>104</u> G, <u>H,I,J,O</u>							
770017 (3511)	Stratigraphy, structure and metallogeny of the northern part of the Intermontane Belt (Whitehorse trough) in the Canadian Cordillera	Tempelman-Kluit, DJ	С	-	CMG	Yk		
	Obj: To provide data on, and extend or sedimentary facies and mineral deposi					graphy, structure,		
	NTS: 105 C,E,L; 115 I							
770019 <sup>-</sup> (3531)	Hepburn Batholith, Hepburn Lake map-area, District of Mackenzie	Hoffman, PF	LCS	-	BS	Mack		
	Obj: To provide an analysis of the deposit metamorphic character of the bath significance of the batholithic-eugeos	olith, in order to recons	truct the	e tectonic	history an			
	NTS: 86 J,O							
770020 (3511)	Kemano Project	Woodsworth, GJ	C	-	CMG	BC		
(,	Obj: To produce a report and geological map of Whitesail Lake (W½) map-area, on a scale of 1:250,000, with one or more 1:50,000 maps of the most critical areas.  NTS: 93 E							
770024*	Geology of uranium	Gandhi, SS	MR	MD	RMRA	BC Mack		
(3571)	resources of Canada-V	4h 1 6 1	4			NS <u>Nfld</u>		
	Obj: To carry out comprehensive research 1. support or provide geologically bas 2. provide guidelines for their discove 3. provide advice to government for the contract of th	sed estimates of Canada's uery;	estimates of Canada's uranium resources;					
	NTS: <u>75</u> E,F,J,K,L,N, <u>O,P</u> ; 76; 85; <u>86 K</u> ; 21 F	H; <u>13</u> H, <u>J,K,L,O</u>						
770025*	Regional Geochemistry – Yukon	Goodfellow, WD	MR	MD	MDG	<u>Yk</u>		
(3571)	<ol> <li>To determine through regional geochemical surveys the mineral potential of the Yukon.</li> <li>To assess through regional detailed studies the use of various geochemical sample media as a fundamental step towards the development of geochemical methodology appropriate to the project area.</li> <li>To provide a data base for the compilation of a National Geochemical Reconnaissance Map as a contribution to the mineral potential inventory of the nation.</li> </ol>							
	NTS: 105 B,C,D,E; 115 A,H,I,J,K,N,O							
770028 <sup>-</sup> (3531)	Regional Synthesis — Baffin Island: Project I	Jackson, GD	LCS	-	NC	Frank		
	Obj: Regional synthesis of all aspects of Ellesmere Islands in the District of Fr		ogy of B	affin, easte	ern Devon	and southeastern		
	NTS: 56-59; 45-49; 34-38; 24-27; 14-16							
770030* (3551)	Géologie du Quaternaire, région de l'Outaouais supérieur Québec	Veillette, JJ	TS	QE	-	Que Ont		
	Obj: Cartographier, décrire et expliquer le 1. Fournir des données relatives à l résérves d'eaux souterraines, à la p 2. Determiner les propriétés physique	'utilisation du sol, à la pro prospection géochimique.	ospection	et localisa				
	NTS: 31 M,L; <u>32 C,D,E,F</u>							

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
770031 (3551)	Surficial geology and terrain evaluation, southern Yukon	Klassen, RW	TS	QG		Yk BC
	Obj: To map, describe and explain the data and knowledge of the strati for land-use planning and engineer	graphy, age and history of s				
	NTS: 94 M; 95 D; 104 P; 105 A-D,E,J,F	<,L; 115 A,H,I; 114 P				
770032 <sup>-</sup> (3552)	Geological characterization of Arctic lakes: sediment properties and sedimentary processes	Adshead, JD	TS	QG	-	Kee
	Obj: To characterize Arctic lakes sediments and watersheds, and 1) potential construction activities	to evaluate postglacial s	sedimentatio	on and dia	agenetic	processes to assist
	NTS: 66 A,H; 65 <u>A,H,I,P</u> ; 55 E,F,M; <u>56</u>	D,E,N,K				
770037 <sup>-</sup> (3552)	Slope processes and cryogenic movements, Arctic Islands	Heginbottom, JA	TS	TD	-	Frank
	Obj: To document the nature, exterpermafrost environment, and to distribution, soil thermal and mo	determine the importance	of surficia	al material		
	NTS: 58 F,G; 68 G,H; 79 B					
770047* (3524)	Studies of coal deposits of western and northern Canada	Ricketts, BD	ISPG	CG	CG	Yk Mack <u>Frank</u>
CANCELLED	Obj: To provide geologic data for the and northern Canada; to prepare for the National Coal Inventory.					
	NTS: 116 B,C,F,G; 106 E,F; 59 E,F,G,F	H; 96 C,F; 39 H; <u>49 E,G,H;</u> 58	G,H; 68 H;	340 B; 78 G	<u> </u>	
770048* (3522)	Brachiopods of the lower Upper Devonian Waterways Formation of northeastern Alberta	Norris, AW	ISPG	P	Мар	Alta
	Obj: To describe and illustrate the ri the Firebag, Calumet, Christina, the Clearwater and Athabasca brachiopod faunas of comparable	, Moberly and Mildred Memb Rivers of northeastern Albe	pers of the erta (see GS	Waterways	Formatio	n outcropping along
	NTS: 74 D,E; <u>83 B,F</u> ; 84 P					
770051 (3524)	The relationship between kerogen (type and rank) and chemical extract data, for the purpose of source rock evaluation	Kalkreuth, WD	ISPG	CG	СТ	Alta
	Obj: To assess kerogen type and degree geochemical data.	ee of maturation by microsco	pical metho	ods and cor	relate the	results with organic
	NTS: <u>82 J,O</u>					
770053 (3526)	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 determine the recoverable portion changes on the recovery of these	on of these resources; to eva				
770054 (3572)	Sample preparation and mineral separating	Delabio, RN	MR	MC	Min	-
	Obj: To provide sample preparation as	nd mineral-separating service	es in suppor	t of Branch	projects.	
770055* (3571)	Metallogeny of the north- western part of the Canadian Shield	Roscoe, SM	MR	MD	RMS	Ont Que Mack Kee Man Sask
	Obj: To provide a metallogenic basic Canadian Shield.	s for the evaluation of the	mineral res	sources of	the north	western part of the
	NTS: 46; 55; 56; 64; 65; 66; 74; <u>75</u> ; <u>76</u> ;	<u>85; 86</u>				

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
770063* (3571)	Geology of Lead and Zinc resources of Canada – II	Lydon, JW	MR	MD	MDG	Yk Mack Que Man Frank Nfld
	Obj: 1. Support or provide geologically b. 2. Provide guidelines for their disco 3. Provide advice to government for	very.			ommoditie	S.
770067 (3526)	Canada Oil and Gas Pool data base-file	Skibo, DN	ISPG	PRAS	-	AND
	Obj: To incorporate and maintain a data oil and gas pools in western, frontie calculation, resources estimation, application of and research on st resources potential in all petrolifero	r and offshore regions of C input to economic (cos atistical methodologies f	Canada. 1 ting and	o provide a project de	a data base evelopment	suited to reserves c) studies and for
770071* (3571)	Geology of copper and molybdenum resources of Canada	Sinclair, WD	MR	MD	RMS	NS <u>NB</u> Frank Que Ont Kee <u>Yk BC</u> Mack
	Obj: The project is one of comprehensive 1. support or provide geologically be 2. provide guidelines for their disco 3. provide advice to government for	ased estimates of Canada's very; and	resource	s of these co		
	NTS: 104 O; 105 A,B,C,D,F,M,O; 20 P; 21	G,J; 41 I; 42 C; 85 H,I,J; <u>1</u>	15 N,O			
770072 (3543)	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 opera				ists to the	e KPCRP Steering
770077* (3522)	Paleozoic conodonts of eastern Canada	Nowlan, GS	ISPG	p	OP	<u>Que</u> Ont Man Kee <u>NB</u> <u>NS</u> Nfld
	Obj: To describe and assess biochronolog dating the rocks in which they ar significance of the faunas.					
	NTS: 12 A,E,L; 11 E,F,K; <u>22 A,B</u> ,C,G,H; <u>2</u>	<u>1</u> A,G,H,I,L, <u>O,P</u> ; 41 G,H; 3	1 C,F,G			
780001	Coal Resource Data Management	Mottershead, K	ISPG	CG	RE	-
	Obj: To plan and conduct investigations of the methodologies for coal resource assessment in undisturb disturbed coal measures. To establish and maintain coal resource data computer files of various coal dep Canada and apply, adapt or develop computer programs for the analysis and display of geological data a compilation of coal resource estimates.					
780002* (3552)	Glacial erosion of the Canadian Shield	Kaszycki, CA	TS	QG	-	Kee <u>Ont</u> Que
	Obj: 1. To define and summarize ways of 2. Define parameters that are most 3. To measure glacial erosion in sel 4. To evaluate recently developed of	influential in controlling geted test areas.	glacial ero	sion on the	Shield.	Shield.
	NTS: 55 E,L,K; 41 I; 21 E,L; <u>31 D,E</u>					
780003 (3523)	Petroleum Resource Evaluation of Western Canada	Osadetz, KG	ISPG	PG	PR	Alta BC Sask Man
	Obj: To provide the geological-geochen Western Canada. This includes the leading to the estimate of the proba	development of a regional i	framewor	k and the st		
	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; 8	3; 84; 93 ]	i,p; 94 A,B,	G-K,N,O,P	

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
780006* (3524)	Mineral Matter and Trace Element Content of Canadian Coals	Goodarzi, F	ISPG	CG	CT	Alta BC
	Obj: 1. To determine if coal basins and element content. 2. To enlarge the data base for the image. 3. To relate mineral matter and trace. 4. To provide a data bank on environ	nterpretation of the deposite element content to other	itional re	gimes within itional para	n coal basi	
	NTS: 82 G,O,N; 83 A; 93 H,L					
780008 (3531)	Macquoid Lake (W½), Thirty Mile and Tebesjuak Lake map–areas	LeCheminant, AN	LCS	-	NC	Kee
	Obj: To interpret the geology of the area base to improve regional tectonic sy Archean gneisses and their relation to	ntheses. To investigate t	the struct	ure and me		
	NTS: 65 P (W 1/2); 65 O (E 1/2); 55 M (W 1/2)					
780009* (3531)	Healey Lake map-area, District of Mackenzie	Henderson, JB	LCS	-	BS	Mack
	Obj: To determine the general structural order to better understand the nature economic potential of the area and to	e of the boundary between	n Slave a			
	NTS: <u>76 B</u>					
780012 (3531)	Stratigraphy and geochemistry of the volcanic rocks of the Circum-Ungava Belt	Baragar, WRA	LCS	-	SP	Kee Que
	Obj: 1. To determine the petrochemical rocks of the Circum-Ungava Belt 2. To examine the relationships of Troodos ophiolite, Cyprus, with a its possible bearing on Precambria	and to clarify the nature of sheeted dykes to associ- view to understanding the	of their te ated volc	ctonic setti anic rocks	ing. and pluto	nic complex in the
	NTS: 44 I,P; 34 E; 35 C,F,K,L					
780015* (3574)	Disequilibrium in the uranium series	Dyck, W	MR	EGC	GMR	Sask <u>Ont</u> BC
	Obj: To determine the usefulness of disequ	uilibrium in the U series in	predictir	g the existe	ence of U r	mineralization.
	NTS: <u>31 F,G</u> ; 64 L; 74 I; <u>92</u> ; <u>102</u>					
780016* (3552)	Drift prospecting methods and models	DiLabio, RNW	TS	QG	-	Ont Que Nfld Man
	Obj: 1. To model glacial dispersal from ki 2. To develop drift prospecting meth	nods for use in clay belts.				
	NTS: 14 D; 24 A; 23 J; 32 C,D; 42 C; 64 B,	C,F,G; <u>42 A</u> ; 31 L; 63 A,H;	53 F,K,L	.,N		
780017 (3551)	Correlation of Quaternary geology; Great Lakes — St. Lawrence Valley region	Gadd, NR	TS	QG	-	Ont Que
	Obj: To resolve apparent age discrepand St. Lawrence valleys and adjacent La of Quaternary geology in southern Or	ake Ontario basin. To pro	vide a bas			
	NTS: 31 B,C,F,G,H,L; 21 E,L,M					
780018* (3552)	Surficial geology and Quaternary stratigraphy of north Baffin-Bylot Islands	Klassen, RA	TS	QG	-	<u>Frank</u>
	Obj: To provide information on the histo sediments in the northern part of Bo groups that may require knowledge o	affin Island and of Bylot I	sland, for	use by en	vironmenta	al and development

NTS: 38 B,C; 48 A,D

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.	
780021 (3542)	Landsat Calibration for Suspended Sediment Concen- tration in Marine Coastal Environments	Amos, CL	AGC	EMG	SG	-	
	Obj: 1. To initiate cooperative resear extending a calibration of Lar Minas Basin. 2. To extend the Minas Basin call 3. To relate the available Seasat	ndsat radiance vs. suspended ibration.	sediment				
780022 (3542)	Sediment Dynamics at the Head of the Bay of Fundy	Amos, CL	AGC	EMG	SG	NS NB	
	<ol> <li>Obj: 1. To determine the mass input, transfer and removal of sediments to Chignecto Bay, inclusive of Shepody Bay and Cumberland Basin.</li> <li>To develop a numerical model to assess the affects of a Fundy Tidal Power Development on the distribution and accretion of sediments.</li> <li>To formulate a methodology of assessing the implications of marine constructions on sediments in macrotidal regions.</li> </ol> NTS: 21; 11						
780024* (3574)	Analytical control and standardization	Lynch, JJ	MR	EGC	RGS	Ont Que NB	
	<ol> <li>To obtain sample preparation and a variety of analytical services from commercial sources under contract for subdivision and RGR.</li> <li>To provide analytical methodology, the use of which will permit the acquisition of accurate, precise and regionally compatible analytical data for the subdivision and RGR surveys under Federal, Provincial, and MDA jurisdiction.</li> <li>To provide various types of international geochemical reference samples and to provide certified values for a large number of elements for these samples.</li> </ol>						
780025 (3531)	Archean Rocks of the Nain Province in Hopedale (13 N), Snegamook Lake (13 K), and Makkovik (13 O) map-areas, Labrador	Ermanovics, I	LCS	-	SG	Nfld	
	Obj: 1. To produce maps (suitable f economic mineral potential of 2. To monitor, compile and synt) Canada – Newfoundland Miner NTS: 13 N,K,O	the Archean rocks in these hesize results of the geologi	areas. .cal mappin	g of Labrac			
780026 (3550)	Quaternary paleo-sealevel map of Canada	Pelletier, BR	TS	QE	-	-	
	Obj: To produce a synthesis of sealeve	l phenomena for the Quaterr	nary period	•			
780028 (3511)	Detailed Geological study of selected areas within the Foothills and Rocky Mountain Belts of the Monkman Pass map area – with emphasis on the structure	Thompson, RI	С	-	CMG	BC Alta	
	Obj: To map at 1:50,000 scale: map st as a data base for the preparation				areas 93	H/16 and 83 E/13W½	
	NTS: 93 H,I; 83 E						
780029 <sup>-</sup> (3522)	Mesozoic and Cenozoic Foraminifera of the Arctic Western mainland of Canada	McNeil, DH	ISPG	Р	MiP	Yk Mack	
	Obj: To establish the biostratigraphic Arctic western mainland of Cana	da, with particular emphasis					
	NTC- 05- 07- 105- 107- 107- 115- 116	C. 117					

NTS: 95; 96; 97; 105; 106; 107; 115; 116; 117

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
780032 (3571)	Lead isotopic studies on genesis of ore deposits	Thorpe, RI	MR	MD	MDG	-
	<ol> <li>Obj: 1. To do lead isotopic studies of these deposits.</li> <li>To derive a lead isotope model</li> <li>To coordinate the obtaining of and the assignment of prioritie</li> <li>To aid members of the section</li> </ol>	that will be useful in refinin lead isotope analyses for the s for such analyses.	g genetic e members	models for of the Min	many types eral Depos	s of ore deposits. its Geology Section
780033* (3551)	Quaternary paleoecology, Great Lakes	Anderson, TW	TS	QE	PEc	Ont Que
	Obj: To describe, analyze and explain order to:  1. determine Quaternary stratigra 2. identify processes operative in 3. to provide background geologic NTS: 21 E; 31 B,C-F,G-L; 41 H-K	aphy, history and paleoecolog the lakes during the Quaterr	gy; nary and ti	he factors o	controlling	them;
780035 (3552)	Remote sensing applied to Quaternary geology and mineral tracing	Belanger, JR	TS	QG	-	Yk Kee Que Frank Mack Ont
	Obj: To evaluate the potential use of Quaternary geology and mineral to Quaternary geology and related to	acing. To apply appropriate	processin	g technique		
	NTS: 66 M; 67 A-C; 87 A-F; 88 A-B; 21	E; 31 G				
780039* (3521)	Jurassic and Cretaceous Minnes Group, Alberta and British Columbia	Stott, DF	ISPG	RG	M	Alta BC
	Obj: To describe the stratigraphic succorrelation of these strata, their suitability as reservoirs for those:	lateral variation, their po	document otentialitie	fossil flora es as sourc	and fauna; ces of oil	to provide data on and gas, and their
	NTS: 83 E,L; <u>93</u> I, <u>O</u> ,P; <u>94 B</u> ,G,J					
780042 (3541)	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 struct 2. To determine the transition fro 3. To discuss the subsidence historic structures.	om the continental to oceani	c crust ac	ross the ma	rgins. I to relate	it to the subsurface
780047 (3573)	Computer Methods and Calibration CURRENTevINFORMATION NOTELLA VALUE pages preairborne 3. To standardize and coordinate	Carson, JM  for compilation of radiometre, ground, laboratory and bord the calibration of radiometr	MR ric data. ehole gam ic systems	EGP ma ray spec	RG ctrometric	Sask Ont NB Alta data.
	NTS: 21 G; 31 G; 73 B; 82 O,P		20 0,000			
780049 (3541)	Arctic Ocean: Seismic Refraction and Related Geophysical Measurements	Jackson, HR	AGC	RR	ОВМ	-
	Obj: To collect seismic refraction, ref both a regional and global scale to 1. a tectonic history of the Arcti 2. a model for development of sl Baffin Bay and the Labrador S. 3. a crustal cross-section of the l	o provide: C; ow spreading ridges and rela ea; and	ationship t	o other spr	eading cent	tres such as those in

**Project** Project Title Leader Div. Subdiv. Prov. Number Sec. 790002 Geochemical data processing Lund, NG MR **EGC SDS** (3574) CURRENTO INFO prove data management support for the subdivision. NOTTOANALLABITE e material for Federal RGR and provincial open file releases of geochemical data. 4. To provide for the public information concerning all RGR surveys since 1975. 5. To provide special data processing requirements for division staff. **EGC** BC Yk 790003\* Applied Geochemistry Ballantyne, SB **GMR** (3574)for the Cordillera Obj: 1. To develop and test geochemical exploration methods for the discovery of concealed ore deposits in a variety of geological and surficial environments in the southern Cordillera. 2. To assess the effectiveness of geochemical reconnaissance surveys in the planning of exploration programs and in appraising the resource potential of areas. NTS: 104 B,M,N,O,P,I; 94 F,K,L; 105 B,C,D-F,I,M; 92 O,P; 106 D; 115 P 790004 **EGC GMR** MR Geochemical Resource Garrett, RG (3574)**Evaluation Studies** Obj: To develop, test and publish methodologies for evaluating data and integrating them with other geoscience data for the purpose of resource evaluation and interpretation. To assist other members of the subdivision in selecting appropriate methods of data analysis. 790005 Quaternary geology, Mayo-McQuesten Hughes, OL QG (3551)Obj: To map, describe and explain the surficial materials and landforms and to provide areal geologic-geomorphic data and knowledge of stratigraphy, age and history of surficial deposits to provide background information for land use planning, engineering and mineral development. NTS: 105 M; 115 P; 116 B,C Marine Delta Sedimentation, 790006\* Luternauer, JL C **PMG** BC (3512)British Columbia Obj: To provide geological/sedimentological data base for delta systems in coastal British Columbia for general land and waterfront planning and environmental management. NTS: 92 B,C,G; 103 G,H,I,J 790007 C **CMG** Yk Mack Gordey, SP Geology of Nahanni map-area, (3511)Yukon and Northwest Territories Obj: To update geological mapping in Nahanni map-area with emphasis on the distribution of stratigraphic units of the economically important Road River Formation and Earn Group. NTS: 105 I LCS NC 790009 Kamilukuak Lake Map-area, Tella, S Kee (3531)District of Keewatin, N.W.T. Obj: To map the bedrock geology of the area at a standard of modern 1:250 000 scale mapping. Emphasis will be placed on the Dubawnt Group rocks, their extent, lithology, and relationship to the basement rocks. NTS: 65 K,L; 66 H **ISPG** CG CT Sask Alta 790013 Cameron, AR Relationship of reflectance to BC (3524)chemical rank parameters of western Canadian coals Obj: 1. To establish reference curves relating rank as determined by reflectance to rank as determined by chemical To determine the relationship of varying maceral compositions on rank as determined chemically. NTS: 62 F; 72 H,G,M; 82 G,H,J,O,P; 83 A,C,E,F,G,M; 93 J,O,P SG Atlantic 790018 Ice Scouring of Continental Lewis, CFM AGC **EMG** Offshore (3542)Shelves Obj: To investigate the geomorphology and sedimentology of ice scour tracks and their relationship to bathymetry, geology, oceanography and drift ice with a view to interpreting the dynamics and history of ice impacts on the

seabed in order to provide advice for resource management.

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
790019 (3542)	Environmental Geology of Deep Ocean	Buckley, DE	AGC	EMG	G	Atlantic Offshore
	Obj: 1. To investigate the capacity of quality under conditions of str					
	exploitation.  2. To participate in the Seabed Wo studies for the disposal of high le  3. To participate in studies of the e	vel nuclear waste in the se	eabed.		ness of pro	ogress in feasibility
790022 (3524)	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 collect fossil flora and fauna; to pro the region; to attempt to determin deltaic sediments were deposited, an in determining the potential coal res	vide data on the origin, di e criteria useful in deter nd to eventually provide a	stribution mining the regional ge	and contine sub-envir	uity of coa onments in	l seams throughout which the fluvial-
	NTS: 83 L; 93 I,J,O; 94 B,G					
790024 (3531)	Geology of the Foxe Fold belt (EAST HALF), Baffin Island	Henderson, JR	LCS	-	NC	Frank
	Obj: To establish the stratigraphy, struct rocks in the Piling Group and their of Archean "gneiss domes" in the ar region evaluated.	relationship to the rocks o	f the Mar	y River Gro	oup. The s	tructural evolution
	NTS: A,B,C,D					
790025 (3531)	Petrology, mineralogy, geochemistry and mineral potential of a Helikian non-orogenic granitic suite in central Labrador and adjacent Quebec	Emslie, RF	LCS	-	PET	Nfld Que
	Obj: To improve understanding of the connon-orogenic granitic suites.	nditions and processes tha	t control o	concentratio	ons of U, S	n, Be, W and Mo in
	NTS: 32; 22; 12					
790027 (3551)	Quaternary stratigraphy Yarmouth region, Nova Scotia	Grant, DR	TS	QG	-	NS
	Obj: To document the Quaternary stratig	raphy of the southeast coa	st of Nova	Scotia in t	he vicinity	of Yarmouth.
	NTS: 11 E,F; 21 H					
790029* (3531)	Gneissic basement to the Fury and Hecla Formation and the Autridge Formation	Ciesielski, A	LCS	-	SG	Frank
	Obj: To map the basement gneisses adja Island at a scale suitable for public relationships and the relationship of	ation at 1:100 000 or 1:25	0 000. Er	mphasis to		
	NTS: <u>47 A,B</u> ,D,E,F					
790030	Geology of Nelson Map-area E/2	Reesor, JE	С	-	CMG	ВС
(3511)	Obj: 1. To update the geology of Nels studies done since the original words. To provide a 1:250,000 synthesis	ork in the late 1930's.		_		
	NTS: 82 F, E½					

Project		Project				_			
Number	Title	Leader	Div.	Subdiv.	Sec.	Prov.			
790031 (3521)	Geology of the Beaufort Mackenzie Basin	Dixon, J	ISPG	RG	M	Mack Frank Yk			
	<ol> <li>Obj: 1. To integrate all available geological, biostratigraphic, geophysical, and geochemical data for the Tertiary in the Beaufort-Mackenzie Basin, in order to develop a stratigraphic-sedimentological framework and an appreciation of the petroleum potential.</li> <li>Undertake detailed stratigraphic, sedimentological and petrographic analysis of selected zones within the Cretaceous and Tertiary in order to understand reservoir character and distribution.</li> <li>To do detailed correlations of Lower Cretaceous-Upper Jurassic rocks in the subsurface, set up a stratigraphic framework and do sedimentological interpretations.</li> </ol>								
	NTS: 97 F,H; 107 B,H; 117;								
790033* (3574)	Geochemistry of Mineral Occurrences and their Host Rocks in the Northern Cordillera	Goodfellow, WD	MR	EGC	MDG	Yk Mack			
	Obj: Through geochemical studies, to assi 1. the origin of selected mineral occ 2. criteria which can be used in the 3. geochemical methodology for the stratigraphic correlations; and 4. the evolution of marine environm	currences; exploration for new and pose e identification and differer	ntiation of						
	NTS: 105 F,I,N,O; 115 H								
790034*	Shallow Seismic	Gagne, RM	MR	EGP	TG	Ont Que			
(33/3) C	CURRENT INFORMATION Obj. Long the velocity structure of surficial deposits by engineering seismic methods for geological mapping and								
	NTS: <u>31</u> F, <u>G</u> ,H, <u>I</u> ,K; 82 E; <u>84 A; 93 G; 42 A</u>	; 91 G; 92 G							
790036* (3544)	Sediment Dynamics Monitor (Ralph)	Heffler, DE	AGC	PS	-	Atlantic Offshore Arctic Offshore			
	Obj: To design, build and test an instrum few metres to 200 M for bottom dur	ent to investigate the dynamications of up to 45 days.	mics of se	ediments in	water dep	ths ranging from a			
790038* (3521)	Devonian Rocks in east-Central B.C. and west-central Alberta	Geldsetzer, HHJ	ISPG	RG	М	BC Alta			
	Obj: To establish and apply conceptual models of deposition of the original sediments in terms of environment and paleogeography, their subsequent diagenesis and correlation.								
	NTS: <u>83 C</u> ; <u>84 E</u> ,L; 93 H,I;								
790041*	Lardeau map-area, B.C.	Wheeler, JO	С	-	CMG	<u>BC</u>			
(3511)	Obj: To complete terminal report and related geological, structural and mineral deposits maps and structure sections for publication at 1:250,000 scale.								
	NTS: <u>82 K,M,N</u>								
790042 (359)	Stratigraphy, structure and Tectonics; Innuitian Fold Belt, Ellesmere Island, N.W.T.	Okulitch, AV	DGO	-	SP	Frank			
	Obj: To map and describe structures of t of that part of the belt on Ellesmere		fold belt	, their evol	ution and tl	he tectonic history			
	NTS: 49 A,B,C								
800001* (3552)	Quaternary geology and terrain inventory, Nahanni-Sheldon Lake-Finlayson Lake	Jackson, LE	TS	QG	-	Yk Mack			
Obj: To map, describe and explain the surficial deposits, terrain conditions, active geomorphic p Quaternary history with specific reference to the significance of Quaternary geology for mineral ex									
	NTS: 105 I,J(S½),G, <u>K,F</u>								

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
800005 (3531)	Metamorphism and structure in northeast Superior Province	Ciesielski, A	LCS	-	SG	Que		
	Obj: 1. To understand the geological e Province, and in particular, the 2. To contribute, through field study.	relationship between green	nstone and	granulite te	rrains.			
	NTS: 33							
800006 (3531)	Geology of Beechey-Duggan Lakes area	Frith, RA	LCS	-	BS	Mack		
	Obj: 1. Map for 1:250,000 published sca 2. Understand the nature of the Ti 3. Produce final maps and a report	helon Front.						
	NTS: Pts 76 F,G,H; 86 B							
800007* (3531)	Metamorphism in the Kisseynew Subprovince	Froese, E	LCS	-	PET	Man Sask		
	Obj: To study the metamorphic zonation in the Kisseynew Subprovince, from the low grade margin to the granulite facies in the centre, and to determine its relationship to the development of alternating volcanic and sedimentary subprovinces.							
	NTS: Pts 76 F,G,H; 86 B; 63 J,K,N,O							
800008 (3531)	Geology of the Baker Lake map-area	Schau, M	LCS	-	NC	Kee		
	Obj: To refine and upgrade the 16-mile reconnaissance, with emphasis on the structure and stratigraphy of Archean metavolcanics and Aphebian(?) metasediments, and relationship to gneissic and granitic rocks. The economic potential will be evaluated.							
	NTS: 56 D							
800009 (3531)	Geology of Fort Smith, District of Mackenzie	Bostock, HH	LCS	-	BS	Mack		
	Obj: To complete mapping of Precamb Buffalo River (85 A).	orian rocks at 1:250,000 s	scale in Fo	rt Smith (7	75 D) and	east part of Little		
	NTS: 75 D, E½, 85 A(E½)							
800010 (3512)	Marine magnetic surveys	Currie, RG	С	-	MG	Pacific Offshore		
	Obj: To measure and interpret the ear facilitate a reconstruction of the t							
800012 (3531)	Geology of Woodburn Lake map area, District of Keewatin	Fraser, JA	LCS	-	NC	Kee		
	Obj: To upgrade the 16-mile geological the stratigraphy and structure of t granitic basement. To assess the e	he Proterozoic(?) supracrus	stal rocks,					
	NTS: 56 E							
800013 (3532)	Vertical Movements of the Precambrian Shield	Buchan, KL	LCS	-	PMag	Ont Que		
	Obj: To determine vertical movements The method is quantitative and wo Archean.							
	NTS: 23; 24; 34 C							
800014 (3531)	Metamorphism of volcanic rocks, Crowduck Bay, Manitoba	Gordon, TM	LCS	-	PET	Man		
	Obj: Conduct a detailed field and petro provide correlation criteria for ma chemical processes which limit the	apping amphibolites and gn	eisses equi	valent to vo				

NTS: 63 J,K,N,O,P; 64 A,B,C

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Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
800015 (3542)	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 shoreline fe 2. To examine two well develope availability in order to dete characteristics and to documen mental conditions.	ed barrier beaches with d rmine seasonal changes	lifferent in beac	aspect, geo h-nearshore	ological se morphol	ogy and sediment		
	NTS: 11 F,G,K							
	High Resolution Seismic  RENTENTINFORMATION  NOT AVAILABLE  OBJ. 1. To develop new techniques for us	Pullan, SE	MR	EGP	TG	Ont Que Man Alta BC Sask Yk NS		
	<ol><li>To improve the reflection seismic resolution of shallow seismographs and test these improvements at various sites in Canada.</li></ol>							
	NTS: 40 I,P; 30 M; 84 A; 93 G; 73 B; 83 G;	; <u>31 G</u> ; 11 E; 82 L						
800019 (3551)	Surficial geology, Cobden area (Quebec part)	Fulton, RJ	TS	QG	-	Que		
	Obj: To map, describe and explain the unconsolidated deposits and landforms of the Quebec part of the Cobden area (31 G 10) in order to provide geology and terrain information pertinent to agriculture, urban and industrial development and engineering construction and to determine the Quaternary history of the region.							
	NTS: 31 G 10 (Quebec part)							
800020* (3542)	The Recent Paleoclimatic and Paleoecologic Records in Fjord Sediments	Schafer, CT	AGC	EMG	p	Que BC		
	Obj: To relate documented climatic exc record in unbioturbated fjord sedim view to the development of predicti	nents recovered from distin	nctive cli	matic regin	nes throug	es to the geological hout Canada with a		
	NTS: <u>22</u> ; 2; 3; 11; 12							
800022* (3511)	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 analysi Cordillera.	maps of Dawson, Larsen is of the region and its be	Creek a earing on	nd Nash C the geologi	reek as a cal evolut	framework for the tion of the northern		
	NTS: <u>116</u> A, <u>B,C</u> ; 106 D							
800023 (3571)	Special assignments on eastern and northern Canada	Poole, WH	MR	EG	SP	Que NB NS Nfld		
	Obj: To contribute to the mineral resour	ce data base and the evalua	ation of re	gional reso	urces.			
800024 (3551)	Quaternary geology-terrain inventory, northwestern Manitoba	Dredge, LA	TS	QG	-	Man		
	Obj: Map, describe and explain the sur provide knowledge of stratigraphy, to engineering construction and min	age and Quaternary history	orms, the y and area	rmal condi al geologic	tions and data with	active processes to particular reference		
	NTS: 64 J,K,N,O							
800027 (3552)	Sensitivity of surficial sediments to effects of acid precipitation	Kettles, IM	TS	QG	-	Ont Que NB		
	Obi: 1. To establish baseline data on na	tural variations of buffering	ng capacit	ies of surfi	cial sedim	ents, with respect to		

Obj: 1. To establish baseline data on natural variations of buffering capacities of surficial sediments, with respect to

possible loading by acid precipitation in an area of predominantly non-carbonate bedrock.

2. To establish magnitude of natural areal variation of chemical (trace and minor element) components that might be mobilized by loading by acid precipitation.

3. To determine the extent that glacial dispersal has modified the physical and chemical properties of surficial sediments from those that would be expected based on bedrock lithologies alone.

NTS: 31 B,C,D,E,F,G,K,L; 21 J,N,O; 41 A,H

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
800028* (3511)	Eastern Margin of the Coast Plutonic Complex	Woodsworth, GJ	С	-	CMG	<u>BC</u>			
	<ol> <li>To examine the stratigraphy, structure, and plutonism of the eastern Coast Plutonic Complex and to correlate metamorphic rocks with unmetamorphosed rocks to the east.</li> <li>To produce reports and geologic maps of Bella Coola (93 D), Terrace (103 I), Pemberton (92 J) and Nass River (103 O) map-areas.</li> </ol>								
	NTS: <u>92</u> J, <u>N</u> ; 93 D; <u>103 H</u> ,I,J,P								
800029* (3511)	Geology of the Ashcroft and Hope map-areas	Monger, JWH	С	-	CMG	<u>BC</u>			
	Obj: To produce Geological maps of Ashcroft (92 I) and Hope (92 H) map-areas.  NTS: 92 I,H								
800030* (3574)	Isotopic Geochemistry, Precambrian Mineralized Basins	Cameron, EM	MR	EGC	-	Mack <u>Ont</u> Que			
	<ol> <li>Provide data on the distributions of certain isotopic ratios within mineralized Precambrian basins.</li> <li>Utilize these data to interpret the mineralizing processes.</li> <li>Develop methods of geochemical exploration for mineral deposits in these basins based on the findings of (a) and (b).</li> </ol>								
	NTS: <u>42 C</u> ; 52 A; <u>41</u> I,J,K, <u>P</u> ; 86								
800031 (3521)	Geological reconnaissance, southeastern margin of Franklinian Geosyncline	Christie, RL	ISPG	RG	ΑI	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 (359)	Geology and Economic Minerals of Canada 6th Edition	Wheeler, JO	DGO	-	-	-			
	Obj: To coordinate the preparation of a and thematic maps for publication b		d Econom	ic Minerals	of Canada	and related charts			
800034 (3541)	Rift Processes and the Development of Passive Continental Margins	Keen, CE	AGC	RR	-	Atlantic Offshore Arctic Offshore			
	Obj: To investigate consequences (i.e. s anomalies) of various processes pe intrusion, erosion and phase change observations which can be compar- observations and hopefully will lead	erhaps responsible for ini- s in the lower crust. Mod- ed to real data. This all	tial riftin els of the ows elimi	g. These processes a ination of r	processes Illow predi nodels wh	include extension, ctions of the above			
800035* (3541)	Seismic studies of continental margins and ocean basins of the North Atlantic	Reid, I	AGC	RR	OBM	Atlantic Offshore			
	Obj: To study the deep crustal structure and geophysical data to infer the variety of margins, to relate the geo	detailed geology across th	ne ocean/	continent b	oundary. E	By application to a			
800036* (3542)	Stability and Transport of Sediments on Continental Shelves	Amos, CL	AGC	EMG	SG	Atlantic Offshore			
	Obj: The scientific objectives of this properties of the sediment stables above predictively the above predictively	ility under waves and cur highly-disputed field;			,				

2. to apply the above predictively to problems related to ice scouring of seabeds, offshore oil production activities, the differentiation of modern and relict features and the dispersal of materials across the

3. to develop a generalized, programmed strategy for application by other users to solve similar problems of

continental shelf;

sediment stability at other shelf sites.

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**Project Project** Div. Subdiv. Prov. Title Leader Sec. Number NS Nfld Que MR **EGP** TG 810003\* Evaluation of Two Deep Sinha, AK (3573)Sounding E.M. Systems Ont Sask Man Mack CURBENT IN EVALUATION trate the effectiveness of two deep sounding electromagnetic (E.M.) systems, Maxi-A to A 11d Grantes 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; 71 I,N,O; 30 M; 21 A; 42 A; 32 F; 11 F Dyke, AS OG Yk 810004 Ouaternary geology - terrain (3551)inventory, Frances Lake 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 TD **GPEG** Ont Mack 810005 Egginton, PA TS Relationship of flood (3552)frequency and heavy metal uptake in growth rings of trees Obj: To develop and evaluate a proxy method of determining flood frequency of rivers. NTS: 31 F,K,L; 42 H,P 810006\* Quaternary Geology, upper Clague, JJ TS QG BC (3551)Fraser River Basin Obj: To describe, map and establish the stratigraphy of unconsolidated deposits in order to: 1. reconstruct the upper Fraser River drainage development as an aid to explaining the distribution of placer 2. provide information pertinent to forestry, land-use planning, urban and industrial development, and 3. to determine the Quaternary history of the region. NTS: 93 A,B,G,H TS 810007 Vincent, JS QG Frank Quaternary geology-terrain (3551)inventory, western Victoria Island 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; Pts of 77 B,C,F,G; 78 B IRD 810008 Nuclear and Analytical Bristow, O MR **EGP** Ont (3573)Instrumentation CURRENTapl NEORMATO Minology, and development of new technology (both in-house and under contract) for No impraved acquisition of conventional geophysical and geochemical data and for the measurement of other new parameters which are not at present generally measured. Publication of results and/or licencing of products for the rapid and effective transfer of technology to industry. NTS: 31 C,F,K; 40 P MR **EGP** 810009 Slaney, VR Remote Sensing Applications (3573)To maintain up-to-date a Landsat imagery file for the use of the GSC staff and to be in a position to advise currently potentials and limitations of Landsat imagery in the solution of specific No develop LABLE monstrate new methods or to adapt existing methods in relation with the task of

integrating imagery (satellite and airborne) with geochemical, geophysical and geological data for the purpose

3. To evaluate geological applications of Synthetic Aperture Radar and to provide the Interdepartmental

of geological mapping and/or mineral exploration.

Committee on Space with requirements for RADARSAT project.

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
810010 (3521)	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			
	<ul> <li>Obj: To map at 1:50,000 scale:</li> <li>1. Northern area-map sheets 93 0/11, 12E, 14, and the parts of 93 0/13 E and 13 W east of Williston Lake.</li> <li>2. Southern area-map sheets 83 L (S.W. corner), 83 E (N.W. corner) and in conjunction with R.I. Thompson parts of 93 I (SE corner) and 93 H (N.E. corner). As a data base for the preparation of structural interpretations across both areas, and the delineation of coal bearing sequences in the southern area.</li> </ul>								
	NTS: 93 H(NE), I(SE), O/11-14; 83 E(NW), L(SW)								
810011* (3521)	Carboniferous stratigraphy and sedimentology of east central British Columbia and west central Alberta	Richards, BC	ISPG	RG	M	BC Alta			
	<ol> <li>Obj: 1. Revision of the stratigraphic nomenclature of subsurface and surface Carboniferous stratigraphic units.</li> <li>To solve subsurface and surface stratigraphic problems.</li> <li>To determine the characteristics, distributions, and depositional environments of lithofacies in the surface and outcrop belt.</li> <li>To summarize region's Carboniferous depositional and tectonic histories.</li> <li>Evaluation of hydrocarbon potential.</li> </ol>								
	NTS: 83 E,F,G,L,K,J,M,N,O; <u>93 I</u> ,J, <u>O,P</u> ; 94	A,B,G,H,I,J,K,N,O,P; <u>82</u> O	<u>,J</u>						
810012 (3521)	Structural and stratigraphic studies of Northeast British Columbia	Taylor, GC	ISPG	PRAS	-	ВС			
	Obj: To provide a synthesis of the geology of the northern Rocky Mountains in terms of the tectonic response of the stratigraphic record.								
	NTS: 93 I,O,P; 94 F,G,J,N,O								
810013 (3521)	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, includ Mesozoic clastic sequences in Wester		concernin	g sediment	ary sequen	ces, particularly of			
810014* (3524)	Resource evaluation and geology of Canada's coal deposits	Hughes, JD	ISPG	CG	RE	BC Alta Sask			
	Obj: To conduct resource evaluation progrand/or field studies to be undertaken and provincial government data on C coals occur. To provide authoritation and industry on the resource potentifields in Canada.	n to meet the requirement anada's coal deposits. To s ve advice to senior Depart	s of the tudy the mental o	inventory p geological f fficials and	rogram. T ramework to scient	o acquire industry within which these ists in government			
	NTS: 83 A,G,H,I,J; <u>93 O,P</u> ; 72 F,G,H; 62 E;	82 G							
810017 (3521)	Middle and Upper Devonian rocks in the subsurface of west-central Alberta	Meijer-Drees, NC	ISPG	RG	M	Alta			
	Obj: To establish the depositional enviro diagenesis for the purpose of correla Middle and Upper Devonian sediment	ting the depositional frame	ework (se	dimentolog	ical history	y) with that of the			
	NTS: 83 B,C,E-G,J-N								
810018 (3524)	Regional Coal Rank Variations in the Kootenay Formation and their relationship to the structural history of the Southern Canadian Rocky Mo	Cameron, AR	ISPG	CG	СТ	BC Alta			
	Obj: 1. To delineate vertical and lateral the southern Rocky Mountains and 2. To utilize this and stratigraphic	foothills.							

2. To utilize this and stratigraphic/structural data to interpret the relative timing of deformation and the relative contribution to total loading of structural and sedimentological components.

NTS: 82 G,J

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
810019* (3524)	Regional coalification studies in the Minnes, Bullhead and Fort St. John Groups, N.E. British Columbia	Kalkreuth, W	ISPG	CG	СТ	BC Alta			
	<ol> <li>To determine the regional coalification pattern of the lower Cretaceous Bullhead, Fort St. John and Minnes Groups in the foothills belt of northeastern British Columbia and west central Alberta.</li> <li>To determine the petrographic composition of coal seams in the region to provide further data on coal quality and utilization and on depositional environments of seam formation.</li> <li>Coal rank data and petrographic profiles of seams will contribute to stratigraphic correlations.</li> </ol>								
	NTS: <u>83 E; 93 I,P</u>								
810020 (3531)	Thrust-Fold Belt of Wopmay Orogen — Internal Zone	St-Onge, MR	LCS	-	BS	Mack			
	Obj: To extend the study of metamorphism, plutonism and structure resulting from collisional orogeny affecting an early Proterozoic continental margin.								
	NTS: 86 E,F,G								
810021* (3531)	Externides of Wopmay Orogen	Hoffman, PF	LCS	-	BS	Mack			
(2221)	destruction by collisional orogeny.								
	NTS: <u>86 H</u> ,I,J,M,O,P; <u>76 J,K</u> ,M								
810022 (3552)	Permafrost and ground ice map of Canada	Heginbottom, JA	TS	TD	-	Yk Mack			
	Obj: To compile a revised permafrost and ground ice map of Canada at a scale of 1:5M. NTS: 106; 107; 116								
810023 (3551)	Quaternary geologic compilation (EG-1 revision)	Fulton, RJ	TS	QG	-	-			
	Obj: 1. Prepare a volume describing the C 2. Prepare a map depicting the surfice			of 1:5 000 (	000.				
810024* (3571)	Metallogeny of the Baker Lake-Thelon region, N.W.T.	Miller, AR	MR	MD	RMS	Kee			
	Obj: To determine the relationship of ura metamorphism and sedimentary proce the Baker Lake-Thelon region.								
	NTS: <u>66 A</u> ; <u>56 D,E,J</u> ; <u>65 I,J</u> ; 55 M								
810025 (3571)	Organization and preparation of mineral resources component of Economic Geology Series Volume 1 – 6th Edition	Thorpe, RI	MR	MD	MDG	-			
	Obj: To produce descriptive-interpretative the regional geological accounts, and regional comparisons of the characte	I to produce summaries of	deposit	types, met					
810028* (3511)	Conodont biostratigraphy and biogeography in the Canadian Cordillera	Orchard, MJ	С	-	CMG	<u>BC</u> Yk			
	Obj: To collect and document conodon framework for the interpretation of O			provide a	and refine	a biostratigraphic			
810029 (3511)	Micropaleontological analysis of referred samples	Orchard, MJ	С	CMG	-	BC Yk			
	Obj: To provide microfossil-based relative problems.	re ages to Cordilleran geo	ologists fo	or their use	e in the so	lution of geological			
810031 (3541)	Evaluation of KSS-30 Sea Gravimeter	Loncarevic, BD	AGC	RR	ОВМ	Atlantic Offshore			
	Obj: To acquire, field test, and implement	operational use of the ne	w sea gra	vimeter (M	odel KSS-3	0).			

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.	
810032 (3543)	D.S.D.P. Dinoflagellates	Bujak, JP	AGC	EPG	-	Atlantic Offshore	
	Obj: Establish a dinoflagellate zonat taxonomy where relevant. Co zonations and Circum-Atlantic paleo-environmental/altitude signelated areas. Assess hydroca analysis techniques.	orrelate and date this schem onshore stratotypes. Determ gnificance of these distribution	e relativo ine strati ons relati	e to the s graphic-reg ive to the	tandard p. ional distr history o	lankton microfossil ibution of taxa and f the Atlantic and	
810033 (3543)	Biostratigraphy of the Atlantic Shelf and Relevant Areas	Fensome, RA	AGC	EPG	-	Atlantic Offshore	
	<ol> <li>Obj: 1. To analyze palynologically Canadian east coast offshore wells, to apply and refine the already developed palynozonation and to furnish a detailed chronostratigraphic framework for the Mesozoic-Cenozoic strata of offshore eastern Canada.</li> <li>To analyze palynologically Mesozoic-Cenozoic assemblages from other relevant areas as a control for Canadian east coast studies.</li> <li>To develop data bases, including BIOSTRAT, to facilitate refinement of zonations through quantitative biostratigraphic techniques.</li> </ol>						
810034* (3543)	Maturation Studies	Bell, JS	AGC	EPG	-	Atlantic Offshore	
	Obj: Determination of organic maturation of the stratigraphic sequences penetrated by selected east coast wells with the aim of establishing time/space relationships for hydrocarbon generation.						
810035 (3543)	Taxonomy, Phylogeny and Ecology of Palynomorphs	Fensome, RA	AGC	EPG	-	-	
	Obj: Taxonomy: To publish formal de relevant areas. Phylogeny: To knowledge of the biological classification. Ecology. To as understanding of the paleoenviron.	o resolve and describe phylog- groups concerned, their bio sess the paleoecology and plo	enies amo stratigrap t provinci	ongst palyn ohic resolu	omorphs in tion and	n order to improve their suprageneric	
810036* (3542)	Morphology, sedimentology, and dynamics of Newfoundland coast	Forbes, DL	AGC	EMG	SG	Nfld	
	2. To investigate the sedimenta	lems of coastal resource manage	gement an ses charac	d oil-spill o	contingency selected c	y planning. oastal types and, in	
	NTS: 1 K,L,M,N; 2 C,D,E,F,M; 11 O,P	; 12 A,B,G,H,I,M, <u>P</u>					
810037* (3541)	Surficial geology, geomorphology, and glaciology of the Labrador Shelf	Josenhans, HW	AGC	RR	EAOG	Atlantic Offshore	
	Obj: To gain an understanding of the across the Labrador Shelf; to de wide glacial events; to determin region between Hamilton and Sa and up-to-date synthesis; to determine the synthesis and up-to-date synthesis.	efine the style of glaciation a te the paleoceanography of the glek Banks; to assist the offsh	cross the Labrador ore indust	shelf; to r Sea; to ma try by prov	elate thes ap the surfiding region	e findings to world icial geology of the	
	NTS: 3; 13; 14; 15; 25						
810038 (3522)	Palynology of Carboniferous, Permian and Triassic Rocks of northern and western Canada	Utting, J	ISPG	p	MiP	Frank Que NS PEI Nfld NB Mack Yk BC Alta Sask	

- 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; 49 E,F,G,H; 78 G; 79 B; 88 H; 89 A

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.	
810039* (3524)	Sedimentological studies of coal-bearing Upper Cretaceous and Paleocene formations, Alberta Foothills and Plains	Jerzykiewicz, T	ISPG	CG	CG	Alta	
	Obj: Establish the stratigraphic and seding the Foothills of Alberta as a basis for the stratigraphic correlation between	r evaluation of their coal	resource	potential.	Provide a g	geological base for	
	NTS: Pts 83 A,C; 82 G,H,J,O,P						
810041 (3542)	The physical behaviour of suspended particulate matter (spm) in natural aqueous environments	Syvitski, JPM	AGC	EMG	SG	Atlantic Offshore Arctic Offshore Pacific Offshore	
	Obj: To discover the physical forms and d for a variety of environments.	lynamic behaviour of spm s	o that th	e vertical	flux of spm	can be understood	
	NTS: 21; 11						
810042*	Sedimentology of Fjords	Syvitski, JPM	AGC	EMG	SG	Que Frank	
(3542)	Obj: To complete a comprehensive study sedimentological history, and animal project) and Arctic fjords.						
	NTS: 22						
	Pore structure in crystalline URRENT INFORMATION	Katsube, TJ	MR	EGP	-	Man Ont	
Obj: No Teval And the le 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: 52 B,L; 41 J; 31 K						
810044* (3551)	Quaternary geology-terrain inventory, Prince of Wales Island, King William Island and adjacent mainland Keewatin	Dyke, AS	TS	QG	-	Frank Kee	
	Obj: To map, describe and explain the evolution of the area and to provide						
	NTS: 66 O,P; 57 B,C; 67 A,D,H; <u>68 A-D</u>						
810045 (3541)	An Earth Science Atlas of the Continental Margin of Eastern Canada	Srivastava, SP	AGC	RR	EAOG	-	
	Obj: To provide a means of releasing inferegional studies.	ormation generated or com	npiled by	AGC in a s	tandardize	d form suitable for	
810047* (3542)	Quaternary geologic processes on Continental slopes	Piper, DJW	AGC	EMG	-	Atlantic Offshore	
	Obj: To determine why different areas morphology and surficial geology; paleo-environmental configurations; and slope stability and the flux of sec	to relate this variability and to thus develop predic	to conte	mporary an subsurface	nd Pleistoc surficial se	ene processes and	
810048 (359)	Canada-Nova Scotia Cooperative Mineral Program 1981-84	Poole, WH	DGO	-	-	NS	
	Obj. To ensure that the Cooperative Min designed and that the GSC componer				Mines and	Energy is properly	
820001 (3 <i>5</i> 24)	Completion of outstanding Foothills mapping projects	Gibson, DW	ISPG	CG	CG	Alta	
	Obj: Supervise contract to prepare for fix River (82G/8), Livingstone River (8 Alberta.	nal publication geological r 23/1) and Beehive Mounta	naps and in (82J/2	reports on ) areas in	Blairmore ( the Foothil	82G/9), Carbondale ls of southwestern	
	NTS: 82 G,J						

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
820003 (3541)	Geology of the Atlantic Margin: Canada	Williams, GL	AGC	RR	-	Atlantic Offshore		
	Obj: Preparation of a volume with the above title as a contribution to a 25 volume series on the geology of North America celebrating the decade of North American geology.							
820004* (3531)	Geology of Aberdeen Lake and parts of adjoining map areas, District of Keewatin	LeCheminant, AN	LCS	-	NC	Kee		
	Obj: To interpret the geology of the area to produce a 1:250,000 geological map that will contribute to a regional geological synthesis. Emphasis is to be placed on study of Proterozoic volcanic-plutonic complexes and the stratigraphic and sedimentologic history of the Thelon Formation.							
	NTS: <u>66 A</u> ,B,C,F,G; Pts 65 O,N							
820005* (3532)	Paleomagnetism of Nipissing diabase and Abitibi dykes.	Buchan, KL	LCS	-	PMag	Ont Que		
	Obj: To study the magnetic characteristic in order to establish the relative ages	s of the Nipissing diabase a s of observed paleomagneti	and Abiti c compor	bi dykes and nents.	d the rocks	which they intrude		
	NTS: 31; 32; 41; 42							
820006 (3531)	Regional Geological Synthesis, Western Superior Province	Percival, JA	LCS	-	SG	Ont Man		
	<ul> <li>Obj: To compile and synthesize, in the form of maps and reports, all geological work to date in NTS 52. To outline areas requiring more coverage or update and to evaluate potential problem-oriental studies in order to:</li> <li>1. improve regional correlation;</li> <li>2. improve understanding of Superior Province tectonics; and</li> <li>3. to produce geological maps for publication at 1:1,000,000.</li> </ul>							
	NTS: <u>52</u> ; 41							
820007 (3531)	Deep Rose Lake and parts of adjoining map areas, District of Keewatin	Tella, S	LCS	-	NC	Kee		
	Obj: To map the bedrock geology at a sca of the basement complex and that of Emphases will be placed on the s distribution and tectonic significance	f the supracrustal rocks, and tudy of cataclastic to m	nd to ass	ess the ecor	nomic pote	ntial of the region.		
	NTS: 66 B,F,G,H							
820008 (3531)	Geology of Montresor River and Lower Hayes River map areas, District of Keewatin	Frisch, T	LCS	-	NC	Kee		
	Obj: The mapping of the supracrustal Cha NTS: 66 I; Pts 66 P; 56 L,M,N	ntrey Belt, its extensions a	and its en	virons at a	scale of 1:2	250,000.		
820009	Hottah Terrane	Hildebrand, RS	LCS	_	BS	Mack		
(3531)	Obj: To identify and characterize rocks of Zone, and interpret their role in the	of the Hottah Terrane, est			to the Gr	eat Bear Magmatic		
	NTS: 86 D,E							
820010* (3531)	Precambrian Shield Volume "Decade of North American Geology"	Hoffman, PF	LCS	-	BS	Alta Sask Man Ont Que Nfld		
	Obj: To produce an up-to-date volume (ap the Canadian Precambrian Shield, centennial project).	oprox. 300 printed pages), a (as part of a 20 volume	and geolo work o	gical and te n the geolo	ectonic map ogy of Nor	os on the geology of th America – GSA		
	NTS: Pts 24; 52; 62; 63; 13; 31; 32; 41; 42							

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
820014* (3511)	Stratigraphy and tectonics of the western margin of the southern Omineca Belt	Struik, LC	С	-	CMG	<u>BC</u>			
	Obj: To determine the stratigraphy, age and correlation of the rocks in the area underlain by the Snowshoe Formation and therefrom determine the stratigraphic and structural history of the western margin of the southern Omineca Belt. To determine the relationship of the contact of Quesnel Terrane with eastern rocks where they are mainly Snowshoe Formation and the correlation of the mafic meta-igneous(?) rocks at that contact.								
	NTS: <u>93 A,H</u> ,G;								
820015* (3511)	Geology of Sheldon Lake (105 J) and Tay River (105 K) map area, east central Yukon	Gordey, SP	С	-	-	Yk			
	Obj: To update geological mapping and understanding of stratigraphy and structure in Sheldon Lake (105 J) and Tay River (105 K) map areas. Available preliminary edition geologic maps lack details useful in mineral exploration. An attempt will be made to extend the stratigraphy defined to the east in Nahanni map area (105 I) into these areas.								
	NTS: <u>105 J,K,L</u> ,P								
820016* (3511)	Geology of Skagway (104 M) map-area, British Columbia	Dodds, CJ	С	-	CMG	<u>BC</u>			
	Obj: To update geological mapping in Skag NTS: 104 M	way (formerly Bennett) ma	ap-area.						
820017* (3512)	The Geology of the Strait of Georgia	Hamilton, TS	С	-	PMG	<u>BC</u>			
	Obj: To examine and describe the geology of the Georgia Depression including: structures, stratigraphy and sedimentology. To determine the relative importance of glaciomarine and tectonic processes in shaping the constituent basins particularly with respect to the late Cenozoic. To determine the tectonic sequence of events in the Strait of Georgia as they relate to the evolution of the western Canadian Continental margin.								
	NTS: 92 B,F,G,K								
820018 (3512)	Volcanic Rocks of the Insular Belt and Adjacent Deep Ocean	Hamilton, TS	С	-	PMG	BC			
	Obj: To examine the volcanic sequences of physical forms and depositional/ext mineralogy, geochemistry, petrology of each of the various volcanic units	trusive modes, age relati and genesis. To interpret and their roles in the tector	ionships the geol	with adjace ogic signifi	ent format cance and	tions, petrography, economic potential			
	NTS: 103 B,C,F,G,I,K; 92 B,C,E,F,K,L; 102								
820020 (3 <i>5</i> 9)	Federal Mineral Program in Newfoundland 1982-84	Poole, WH	DGO	-	-	Nfld			
	Obj: To ensure that the Federal Mineral P properly managed and productive.	rogram in Newfoundland is	s properly	y designed a	nd that the	e GSC component is			
		Mwenifumbo, CJ	MR of coal.	EGP	BG	Ont NS Alta Nfld Man			
	NTS: 12 A; 11 D,F,R; 65 REI,O; 31 F-G	_							
820023 (3573)	Operation CESAR  CURRENT INFORMATION  Ohi: The conficient realing as multiplication and the conficient realing as multiplication as a multiplication of the conficient realing as multiplication as a multiplication of the conficient realing as	Overton, A	MR ence exp	EGP endition to	TG investigat	Arctic Offshore tion the nature and			
	Obj: To participate in a pultidisciplinar origin of the Alpha Ridge, a major su	ibsea mountain range in the	e Polar B	asin.	0				
820024 (3567)	Magnetic Anomaly Maps of Canada	Dods, SD	G	A	GDP	-			
	Obj: 1. To produce a series of composite the Geological Survey of Canada. 2. To produce a 5th edition of a 1:5, 3. To compile a composite magnetic 4. To provide a bank of digital aeror	, ,000,000 composite magnet c anomaly map of North Ar	ic anoma	ly map of C	Canada (125	55A).			

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
820027 (3567)	Development of Regional Geophysical Data Processing and Interpretation Methods	Teskey, DJ	G	A	GDP	-		
	Obj: To adapt or develop, as required, t data in order to advance the utility			nd interpre	tation of a	airborne geophysical		
820031 (3526)	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.							
820033 (3521)	Stratigraphy and Sedimentology of the Mannville Group, Southern Alberta	Banerjee, I	ISPG	PG	PR	Alta Sask BC		
	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 sedimentological data. 3. Environmental reconstruction of the Mannville Group and delineation of the regional paleogeography of the period.							
	NTS: Pts 72; 73; 82; 83; 93							
820035 <b>*</b> (3522)	Upper Mesozoic and Cenozoic Palynology of western and northern Canada	McIntyre, DJ	ISPG	Р	MiP	Yk Mack Frank Alta		
	Obj: To establish the biostratigraphic succession, areal distribution, ecologic significance and taxonomy of Upper Mesozoic and Cenozoic palynomorphs of western and northern Canada, with particular emphasis on Mackenzie Delta-Beaufort Sea area.							
	NTS: 82 O,J; 97 C; 107 B,D; 117 A; 106 M	1; 116 F,H,I,P; 95; 96; 105;	115; 49; 5	9; 69; 79; 89	9; 98; 99; 3	340; 560		
820038* (3552)	Comparison of geotechnical and geophysical properties of arctic seabed sediments	Kurfurst, PJ	TS	TD	GPEG	<u>Mack</u> Frank Yk		
	Obj: Development of analytical technic sediments to be made from available hydrocarbon resources of the Beauf	able geophysical data, for						
	NTS: Pts 107 C; 117 D; 77 D							
820039* (3552)	Drift prospecting, east-central Labrador	Klassen, RA	TS	QG	-	Nfld		
	Obj: To develop methods for determin glacial deposits.	ing the source of uranifer	ous bould	lers contair	ned within	or associated with		
	NTS: 13 E,F,K,L,N; 14 D,L,M							
820041 (3543)	Information Data Base, Offshore East Coast Wells	Williams, GL	AGC	EPG	-	Atlantic Offshore		
	Obj: To develop computer data base of a wells. To use the data base for han comparison of data and directing the	dling queries by manageme	nt on reso	urces. To f				
820043* (3544)	Coastal Environments and Processes in the Canadian Arctic Archipelago	Taylor, RB	AGC	EMG	SG	<u>Frank</u>		
	Obj: To map and analyze the coastal magnitude of processes affecting ophysical characteristics of shore	coastline stability across t	he Arctic	Islands. 1	o provide	information on the		

Obj: To map and analyze the coastal environments of the Arctic Archipelago. To determine the frequency and magnitude of processes affecting coastline stability across the Arctic Islands. To provide information on the physical characteristics of shore types and the processes affecting coastal stability which will serve as background information for the evaluation of man's activities in the coastal zone and in case of an environmental emergency, e.g. oil spill.

NTS: 59 B,C; 69 A-D; 79 A-D

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.	
820044* (3542)	Quantitative Quaternary Paleoecology, Eastern Canada	Mudie, PJ	AGC	EMG	P	Atlantic Offshore	
	Obj: 1. To quantify the relationship eastern Canadian margins.	between present microfossil	assemblag	es and the	climate/oc	eanography of the	
	2. To apply these quantitative d	ata to analysis of past clima	atic and oce	eanographic	c conditions	s, e.g. Quaternary	
	glacial-interglacial cycles.  3. To correlate the E. Canadian interaction during the Quaterr	paleoecological records and nary.	relate ther	n to model	s of global	ocean-atmosphere	
820046* (3542)	Sediment Dynamics and Depositional Processes in the Coastal Zone	Forbes, DL	AGC	EMG	SD	NS NB PEI Alta BC	
	Obj: To further our understanding of zone; of the sedimentology of sedimentary systems.	the dynamics of sediment en coastal deposits; and of	ntrainment, long-term	transport, trends in	and deposi the develo	tion in the coastal pment of coastal	
820048 (3524)	Maturity of dispersed organic materials in lower and middle Paleozoic rock, determined by optical and geochemical studies	Goodarzi, F	ISPG	CG	СТ	-	
	Obj: 1. To determine optical and middle Paleozoic rocks.	orphological character of c	dispersed or	ganic mat	erials (D.C	.M.) in lower and	
	2. To examine vertical variation		determine t	ne paleoten	nperature.		
	<ol> <li>To classify the D.O.M. of Low</li> <li>To study the influence of a) to D.O.M., d) petrological and se</li> </ol>	ime of burial (age), b) rate o		e (rate to l	heating), c)	genera of specific	
820050* (3542)	Near-Surface Geology of the Arctic Island Channels (NOGAP)	MacLean, B	AGC	EMG	-	Arctic Offshore	
	Obj: Through an integrated geological, geophysical and geotechnical research program to investigate and report on seabed geology of the Arctic island Channels, the nature and severity of geological constraints to development and contribute to development of technology related to these studies. Objectives include determination of:  1. Surficial sediment textures, distribution, thickness, geotechnical properties and other parameters in sufficiently many and varied areas as to have predictive capability elsewhere;  2. Litho-, bio- and chronostratigraphy of surficial sediments;  3. Principal contemporary sediment dispersal or modifying processes, e.g. ice scour, winnowing, slumping, faulting, permafrost;  4. Nature of near surface bedrock;  5. History of events and evolution of the channels;  6. Technology development for geoscience studies in ice covered waters.						
	NTS: 48 B-F; 58 A-G; 59 A-D; 68 A-H						
820051* (3571)	Metallogeny of marine environments, including active spreading ridges	Franklin, JM	MR	MD	RMS	Pacific Offshore	
	Obj: 1. In collaboration with other so occurrences in Canadian wa Wilson ridges and adjacent sea 2. To conduct research on hydrodesign, coordination and imple	ters, with particular empha afloors. cothermal systems and prod	ucts in sea	Juan de 1 floor envir	Fuca-Exploronments a	rer-Dellwood-Tuzo	
	NTS: 91; 100; 101; 102						
820052* (3571)	Metallogenic processes in sedimentary-diagenetic environments	Dunsmore, HE	MR	MD	MDG	Sask Man Alta BC	
	Obj: To understand how various con diagenetic processes, particular processes is necessary for develor evaluation.	ly those operating in evap	oritic envi	onments.	An under	standing of these	
	NTS: <u>53; 62</u> ; 72; 73; 82 <u>; 83</u>						
830001* (3542)	Permafrost Processes in Arctic Beaches	Taylor, RB	AGC	EMG	SG	Frank	
	Obj: To determine the thermal regin model can be designed to predict water characteristics. Other obj. 1. the effect of ice-bonded sedin 2. the formation, extent and dur	the depth of thaw using eas ectives are to determine: nent on wave run-up, swash-	sily obtainal backwash v	ole informa elocities ar	i <b>tion, i.e.</b> c nd wave wa	limatic data or sea shover; and	
	NITC. FO D C. CO A D						

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
830002 (3541)	Seismicity Studies of the Eastern Canadian Margin	Reid, I	AGC	RR	ОВМ	Atlantic Offshore Arctic Offshore		
	Obj: To investigate the detailed microseismicity of the passive margin: the level of activity, its spatial and temporal distribution, source mechanisms. This will allow better estimates of lithospheric stress distribution and strain rates, and may tell us something about margin evolution as well as the causative mechanism, be it deglaciation or something else. Knowledge of and understanding the seismicity on the continental margin is of course particularly important in view of possible seismic hazard to offshore hydrocarbon activity.							
830003 (3544)	Development and Implementation of Cable Handling and Maintenance Procedures	Manchester, KS	AGC	PS		-		
	Obj: 1. To investigate methods of cable handling and maintenance techniques known. 2. To develop a cable handling and maintenance program at AGC and implement it. 3. To acquire equipment necessary to efficiently carry out program. 4. To increase cable life by a factor of two or more, thereby saving money in the long run.							
83000 <i>5</i> (3523)	Geological Modelling of Thermal History and Basin Development	Stephenson, RA	ISPG	PG	PR	Alta BC Frank		
	Obj: To develop and refine techniques for the analysis of the subsidence histories, subsidence mechanisms and therma histories of sedimentary basins. This is to be done with the view that wherever possible there will be augmentation of other projects by melding expertise. Involve industry. Involve lithoprobe investigators.							
	NTS: 83; 84; 93; 94							
830006* (3532)	Isotopic age determinations and radiogenic trace element studies of rocks and minerals	van Breemen, O	LCS	-	G	Mack		
	Obj: To precisely establish the chronol the characterization of rock units of rocks. To aid in the search for	in order to further extend th	e criteria	for mappin	g and to	determine the origin		
	NTS: 75 E,O,P; 76 A,B							
830007*	Beaufort Sea Coast	Forbes, DL	AGC	EMG	SG	Yk Mack		
(3542)	<ol> <li>To determine and map the physical characteristics of the Beaufort Sea Coast.</li> <li>To assess processes, sedimentary styles and rates of change in this distinctive coastal environment.</li> <li>To assess the response of coastal systems in the Beaufort Sea to industrial activities such as aggregate extraction, and to provide a sound scientific foundation for regulatory practices and contingency planning in the Beaufort Sea coastal zone.</li> </ol>							
	NTS: 97 C,F; 107 B,C,D,E; 117 A,C,D							
830008* (3531)	Displacement History of Major Shear Zones in Western Churchill Province	Hanmer, S	LCS	-	SG	Mack <u>Sask</u>		
	Obj: To document displacement histo MacDonald-La Loche and Grease mapping in Mackenzie and Keer existing maps.	RBlack L. zones. To pro	ovide stru	ictural fran	nework fo	or on-going regional		
	NTS: 85 <u>H</u> ; 75 E,L; <u>74 P</u>							
830009* (3531)	Structural studies in the Grenville Province of Ontario and western Quebec	Hanmer, S	LCS	-	SG	Ont Que		
	Obj: To examine the strain characteriand western Quebec, in order to o	istics of major structural bo determine kinematic sense a	oundaries nd signific	within the cance of pos	Grenville ssible diff	Province of Ontario erential movements.		

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: 31 E,F; 41

830010 (3531)	Tinney Hills (76 J)-Overby Lake (76 I W½) map areas	Thompson, PH	LCS	-	BS	Mack		
	Obj: While mapping the geology of the and structure of gneissic and mign tectonic zone, the boundary between	natitic rocks and on the a	ge, location	and signi				
	NTS: 76 G,I,J; 66 L							
830011 (3523)	Thermal History and Basin Evolution – Canadian Frontier Regions	Skibo, DN	ISPG	PG	PR	-		
	Obj: Using computer methods and mea histories in order to better defin sedimentary basins.	sured organic maturation e the hydrocarbon genera	parameters ating poten	, to integ tial in un	grate geolo explored o	gical and thermal r partly explored		
830014* (3532)	Metamorphic Processes in the Kisseynew Sedimentary Gneiss Belt	Gordon, TM	LCS	-	PET	Man Sask		
	Obj: To determine the pressure-temperature history of selected areas in the belt for comparison with modern tectonic models.							
	NTS: <u>63</u> J,K, <u>N,O</u> ; <u>66</u> A, <u>B,C</u> ,D							
830015	Engineering geology of Canada	Evans, SG	TS	TD	GPEG	-		
Obj: To provide engineering geological advice and service as required to departments or agencies of the Government of Canada. To interpret the engineering geological significance and performance of various geological region Canada with respect to slope failures or other natural hazards. To assemble selected case histories of nat hazards and/or engineering projects to illustrate the engineering geology of Canada.					ological regions of			
830016* (3552)	Landslide hazard in the Canadian Cordillera	Evans, SG	TS	TD	GPEG	BC Alta Yk Mack		
	Obj: 1. To document the occurrence of 2. To develop landslide mechanism	landslides in selected geolo models for slope hazard as	gical enviro sessment in	nments of selected (	the Cordil geological	lera. environments.		
NTS: 82; 83; <u>92</u> ; 93; 94; <u>95</u> ; 96; 102; 103; <u>104</u> ; 105; 106; 114; 115; 116; 117								
830017 (3551)	Surficial geology, north- central District of Mackenzie	St-Onge, DA	TS	QG	-	Mack		
	Obj: To map, describe and explain the use and undertake geomorphic process knowledge of geology and terrain the legicidate the Quaternary history 2. aid in the implementation of the 3. be pertinent to engineering consultations of the provide data relative to terrain	s studies of the NE % and nat will: y of the region; e Territorial Land Use Regulation, hydrocarbon trans	part of N	₩¼ of 86°	°N in orde	r to provide areal		
020010*	NTS: 86 F,G,H,I,J,K,N,O,P	Sharra DD	TC	~		Frank		
830018* (3551)	Quaternary geology, south- western Victoria Island	Sharpe, DR	TS	QG	-	Ont Que		
	Obj: To complete a systematic study o composition, age, origin and history more detailed understanding of sec Island (eastwards). To compare lan methods. To demonstrate applicat exploration and environmental anal	y of the Quaternary sedime diment-landforms for evalu dform-sediment mapping to ion of these studies to land	ents and the lation and/o echniques w	eir respect r mapping ith reconn	tive landfor of adjacer laissance a	rms. To develop a nt areas of Victoria nd landsat mapping		
	NTS: 77 B,C,D,E,F; 67 B,C,F; Pts 87 A,B	,C,D,E,F; 31 C,D,G; 40 P; 40 P	41 A					
830019 (3551)	Quaternary stratigraphy of the Beaufort Coast, Yukon and District of Mackenzie	Vincent, JS	TS	QG	-	Mack Yk Frank		
	Obj: To confirm the lithostratigraphy of the extensive suite of Quaternary sediments exposed along the Beaufort Coast. To collect further samples for sedimentological and paleoecological studies in order to unders depositional environments. To collect samples for geochronological studies in order to ascertain the age of sediments. This will help elucidating the Quaternary history of the area, enable regional correlations to be n and provide essential information for the EG-1 compilation.							
		or the EG-1 compilation.						
		or the EG-1 compilation.						

Project Leader

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Title

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
830020*	Penticton map area 82 E	Tempelman-Kluit, DJ	С	-	CMG	BC			
(3511)	Obj: To study and map the geology of Penticton map-area and to produce a comprehensive report of the results, with progress reports and oral summaries as appropriate.								
	NTS: <u>82 E</u>								
830021 (3511)	The Cordilleran Orogen: Canadian Sector	Gabrielse, H	С	-	CMG	-			
	will be one of 10 volumes on	cal signature, mineral deposits ar the geology of Canada as part o logical Society of America. It	nd geolog f the Deo	y related e cade of No	energy resorth Americ	ources. The volume can Geology (DNAG)			
830022* (3552)	Periglacial processes, Canadian arctic	Egginton, PA	TS	TD	GPEG	Frank			
	<ol> <li>To evaluate the distribution and relative importance of periglacial processes.</li> <li>To assess, on the basis of long-term observation and measurement the characteristics, rates and effects on the terrain of periglacial processes.</li> <li>To provide a national basis for evaluating natural and man-made hazards in the arctic environments.</li> </ol>								
	NTS: 77 D								
830023 <sup>-</sup> (3551)	Quaternary history and surficial materials of north- western Baffin Island	Dyke, AS	TS	QG	-	Frank			
	Obj: To map, describe, and explain evolution of the area and to pro-	n the Quaternary deposits and ovide information relevant to lar							
	NTS: 47 F,G; 48 B,C; 57 E,H; 58 A,I	)							
830024* (3551)	Quaternary geology, southwestern Saskatchewan	Klassen, RW	TS	QG	-	Sask Alta			
	Obj: To establish the Quaternary lithostratigraphy and to describe and map the surface deposits in order to: establish criteria for recognizing units of different ages occurring at the surface; determine the probable location and extent of potential aquifers; and outline the distribution of materials derived from different sources and deposited at different times. The data obtained are critical to understanding the distribution and nature of soil parent material, to resolving long-standing controversies about the extent of glaciation at different times and to further defining the Quaternary framework as an aid to future studies and mapping in southern Saskatchewan.								
	NTS: 72 F,G,J,K,E,L; 82 H								
830025* (3552)	Quaternary stratigraphy, northern Ontario Lowlands	Shilts, WW	TS	-	SR	Ont			
	Obj: 1. To provide a basis for interpretation of the Quaternary history of the northern Ontario lowlands and adjacent								
	<ul><li>regions.</li><li>To provide a means for assessment of the geology and economic potential of bedrock beneath an extensive drift-covered area.</li></ul>								
	NTS: <u>53</u> G, <u>H,I</u> ,J, <u>P</u> ; 43 B,F,L,K,N; 54	∔ A							
830026* (3533)	Geophysical Interpretation Abitibi Belt	Schwarz, EJ	LCS	-	LG	Ont Que			
	<ol> <li>To deduce the general (deep) crustal structure of the Abitibi Belt using geophysical and geological data.</li> <li>To interpret these data in terms of intra-belt structures with particular attention to the continuation an extent of known zones or contacts favourable to metal concentration.</li> </ol>								
	NTS: <u>32; 42; 52</u>								
830027* (3524)	Petrographic Analyses of coals in the Saunders Group, Outer Foothills Belt, Alberta	Cameron, AR	ISPG	CG	СТ	Alta			
	Obj: 1. Determine petrographic cl 2. Determination of rank. 3. Investigate possible corre Jerzykiewicz.	naracter of these coals and estable							

NTS: 82 P; 83 A,F,G

Project Number	Title	Project Lead <del>e</del> r	Div.	Subdiv.	Sec.	Prov.			
830028* (3552)	Properties and distribution of permafrost and ground ice	Heginbottom, JA	TS	TD	-	Mack Frank Yk BC Alta			
	Obj: To provide information on the distribution, classification and properties of frozen soil and ground ice and their dynamic performance when disturbed.  NTS: 107 C; 96; 95; 85; 84; 94 J,K								
830029 (3531)	1:1 000 000 Map — western area of south Baffin Island Obj: To compile a 1:1 000 000 scale map of NTS: 36	Taylor, FC of NTS 36 — to form part o	LCS	- 000 000 seri	SP es of maps	Frank			
830038 (3571)	Geomathematical applications the integration of geoscience in map data  Obj: To integrate diverse types of map it								
	maps (aeromag., gravity, radiometric surveys), geochemical surveys (stream and lake surveys), satellite imagery (Landsat MSS digital data), mineral occurrences (from CANMINDEX and elsewhere). To develop and refine methods for quantitatively comparing and integrating map data from diverse sources. NTS: 105 I								
830041* (3572)	Research and Development on the Analytical Methodology of Geological Materials	Gregoire, DC	MR	MC	С	Pacific Offshore			
	Obj: To provide for the analytical chemi GSC.	stry research and develop	ment requ	irements co	onsistent w	ith the aims of the			
830042 (3522)	Carboniferous and Permian biostratigraphy and conodont faunas, western and northern Canada	Bamber, EW	ISPG	P	MiP	Alta Sask Frank			
	Obj: To establish the biostratigraphic su upper Paleozoic conodonts, scolecod particular emphasis on the Western indicators of hydrocarbon maturation	lonts, and other selected r Canada Sedimentary Basir	nicrofossi	ls of wester	n and nor	thern Canada, with			
	NTS: <u>82 G</u> ,H,J, <u>O</u> ; 78 G; 79 B; 62 K,L								
830043 (3524)	Resource Evaluation and Geology of Coal Deposits of western and northern Canada	Smith, GG	ISPG	CG	-	Alta Sask			
	Obj: To conduct resource evaluation programs required for the National Coal Inventory and to recommend the office and/or field studies to be undertaken to meet the requirements of the inventory program. To acquire industry and provincial government data on Canada's coal deposits. To study the geological framework within which these coals occur. To provide authoritative advice to senior Departmental officials and to scientists in government and industry on the resource potential of Canada's coal deposits. To maintain an up-to-date knowledge of coal fields in Canada.								
	NTS: 72 M,G,H; 62 E								
830045 (3542)	Quaternary Biostratigraphic Methods for Marine Sediments	Vilks, G	AGC	EMG	p	Arctic Offshore Atlantic Offshore			
	Obj: 1. Develop foraminiferal biostratig off eastern and Arctic Canada. 2. Integrate biostratigraphy with paleomagnetic profiles of sedime 3. Provide paleontologic sediment of	independent dating thr	ough C1	, O <sup>18</sup> and	d amino	acid analyses and			
830050 <sup>-</sup> (3574)	Geochemical exploration technology in ultrabasic complexes	Maurice, YT	MR	EGC	GMR	Ont Que			
	Obj: 1. To determine the favourability sulphides, platinum-group elemer 2. To develop and refine geochemic 3. To improve on the existing data and ultrabasic rocks.	nts, chromite, and gold and al exploration methods for	i silver de these me	posits. etals in diffe	rent envir	onments.			

and ultrabasic rocks.

NTS: 21 L; 52 H

Number	Title	Leader	Div.	Subdiv.	Sec.	Prov.			
830051	Geological Atlas of Canada	Okulitch, AV	DGO	-	SP	BC Alta			
(359)	Obj: To plan and organize the preparation of the Geological Atlas of Canada, which consists of a factual synthesis of the bedrock geology of Canada displayed in a series of 1:1 million scale maps accompanied by correlation charts, cross sections, interpretive maps or diagrams, etc., as appropriate.								
	NTS: Pts 82 H,L								
830052* (3552)	Norman Wells pipeline — performance monitoring	Harry, DG	TS	TD	GPEG	Mack Alta			
	Obj: To examine the actual impact of the construction and initial operation of the proposed Norman Wells Pipeline upon the geological environment of the upper Mackenzie Valley; to assess the accuracy of predictions of impacts made during the assessment review phase for the pipeline; and to assess the quality of the surficial geology and terrain sensitivity maps of the upper Mackenzie Valley.								
	NTS: Pts of <u>84</u> ; 85; <u>94</u> ; <u>95</u> ; <u>96</u>								
830053*	Data Inventory	Hardy, I	AGC	PS	-	-			
(3544)	Obj: 1. To provide an inventory of all da 2. To analyze existing forms of dat 3. To compile information on the reports annually.	a release and suggest new o				ada and to prepare			
830054 (359)	Gaspé-Lower St. Lawrence Geoscience Program	Maurice, YT	DGO	-	-	Que			
	<ul> <li>Obj: 1. To coordinate the program of geoscientific studies under the Gaspé-Lower St. Lawrence initiative and to assist GSC Divisions in planning and delivery of the work, and to monitor progress.</li> <li>2. To develop and maintain appropriate contacts outside of GSC; to advise GSC management about factors affecting the program; to prepare such reports and other information as may be required by the Department and Central Agencies.</li> <li>NTS: 21 M,N,O; 22 A,B,C,G,H</li> </ul>								
830055* (3542)	Facies Models of Modern Turbidites	Piper, DJW	AGC	EMG	-	Atlantic Offshore			
	Obj: To contribute information on mode water sediments, in particular est modern deep sea fans.								
830056* (3542)	Engineering Geology of the Atlantic Shelf	Parrott, R	AGC	EMG	SG	Atlantic Offshore			
	Obj: To assess the nature of seabed in especially Hibernia and Sable Island		onstraints	to develo	pment on	the Atlantic Shelf,			
	NTS: 1; 2; 3; 11; 14; 15								
830057* (3542)	Temporal and Spatial Variation of Deep Ocean Currents in the Western Labrador Sea	Schafer, CT	AGC	EMG	P	Atlantic Offshore			
	Obj: To trace the axis of the Labrador S inferred from high resolution acous Tertiary sediments using reflection Protolabrador Sea Basin.	stic methods. To map the	paleoposit	tion of deep	ocean cu	rrents pathways in			
830058* (3574)	Groundwater Geochemistry in Mineral and Hydrocarbon Exploration	Boyle, DR	MR	EGC	GMR	NS Ont Man			
	<ol> <li>Obj: 1. Development of methods of exploration for concealed mineral and hydrocarbon deposits using groundwaters.</li> <li>To set up a quality controlled data base on groundwater chemistry to meet the necessary requirements of effective interpretation in mineral exploration and environmental studies.</li> <li>Studies of geochemical parameters affecting groundwater chemistry.</li> <li>Investigate the role of groundwater geochemistry in the formation of infiltration type mineral deposits and determine guidelines for exploration.</li> <li>Provide input into environmental studies.</li> <li>Provide input into the geothermal energy program.</li> </ol>								

**Project** 

**Project** 

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
840001 (3551)	Surficial geology inventory — area of Anderson River map area	Vincent, JS	TS	QG	-	Mack			
	Obj: To map, describe and explain the unconsolidated deposits, landforms, permafrost, 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;     3. provide data relative to terrain sensitivity rating; and     4. elucidate the Quaternary history of the region.								
	NTS: 97								
840002* (3551)	Surficial geology inventory — area south of Dolphin and Union Strait	St-Onge, DA	TS	QG	••	Mack			
	Obj: To map, describe and explain the unconsolidated deposits, landforms, permafrost, 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;  3. provide data relative to terrain sensitivity rating; and  4. elucidate the Quaternary history of the region.								
	NTS: 96 B, Pts 96 A,C; <u>87 A,B,C</u>								
840003* (3571)	Regional mineral resource assessment, northern Canada – II	Jefferson, CW	MR	MD	RMRA	Yk Mack Kee Frank BC Alta Que			
	Obj: To conduct non-renewable resource assessment studies based on regional metallogeny, for land use planning activities including proposed national parks and other conservation areas. To contribute to descriptive and genetic models of mineral occurrences and their application to exploration and resource evaluation.								
	NTS: <u>23; 24</u> ; 46; <u>56</u> ; 77; 78; <u>82</u> ; 87; 88; <u>94</u> ;	<u>95;</u> 96; 97; 98; 105; 106							
840004 (3531)	Volcanic rocks of Kaminak Lake region, N.W.T.	Taylor, FC	LCS	-	SP	Kee			
	Obj: To collate data gathered and partial	ly processed by Dr. R. Rid	ler and cor	mpile it into	o a useful r	eport.			
	NTS: Pts 55 E,K,L								
840005* (3531)	Artillery Lake map area, District of Mackenzie	Henderson, JB	LCS	-	BS	Mack			
	Obj: To analyse and interpret geological and development of geological mocontinuing program of activity in Provinces.	dels to be portrayed in a	geologica	d map and	written r	eport as part of a			
	NTS: Pts 75 O,P; 76 A,B								
840012* (3571)	Regional mineral resource assessment – northern Canada – I	Scoates, RFJ	MR	MD	RMRA	Frank Mack Kee			
	Obj: To conduct non-renewable resource activities including proposed national				llogeny for	· land use planning			
	NTS: 46 (W½) 77; 78; 87; 88; 95; 96; 97; 98								
840013* (3531)	Granulites of Northern Churchill Province	Schau, M	LCS	-	NC	Frank			
	Obj: To study 2 new granulite terranes to their country rock, as well as deter- geophysical and geochemical constra	mine easily measured vari	ables from	n samples o	n hand to	provide geological,			
	NTS: <u>47 A,B,C,D</u>								
840014* (3552)	Characterization of ground ice occurrence in northern Canada	Harry, DG	TS	TD	GPEG	Mack Frank Yk			
	Obj: To develop an understanding of the geomorphic and geological settings terrain performance in the permafron	and to develop models for							

NTS: 107; 117 pts

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
840015 (3541)	Seabed II	Manchester, KS	AGC	PS	-	Atlantic Offshore		
	Obj: To develop with Huntec '70 Limited deep-towed high resolution seismic continental shelf and deep ocean de	and sidescan, geological and	e design, n I bathyme	nanufacture tric integra	and test of ted mappin	of 500m and 2000m ag systems, for the		
840016 <b>*</b> (3531)	Etudes des roches Archéennes et Protérozoiques dans la région du Front de Grenville entre Chibougamau et Val d'Or, Québec	Ciesielski, A	LCS	-	SG	Que		
	<ol> <li>Obj: 1. Reconnaissance des séries Archéennes au sub-est de la ZTFG (du zone tectonique du Front de Grenville);</li> <li>2. Etudes des styles structuraux de part et d'autre de la ZTFG;</li> <li>3. Comparaison des contextes géologiques de part et d'autre de la ZTFG;</li> <li>4. Chronologie absolue et relative des gneiss gris et des granitoides adjaçents a la ZTFG.</li> </ol>							
	NTS: <u>32 B,G</u> ,H,I,J							
840017 (3541)	A.O.D.P. Site Survey, Labrador Sea	Srivastava, SP	AGC	RR	EAOG	Atlantic Offshore		
	Obj: To carry out detailed surveys over proposed drill sites in the Labrador Sea involving magnetic, seismic reflection and refraction, coring and heatflow measurements. The purpose of this survey would be to map in as much detail as possible the bathymetry, basement topography, sediment properties and geophysical signatures at each of these proposed sites.							
840018*	Comparative Regional Metallogeny	Poulsen, KH	MR	MD	RMS	Ont Man Sask NS		
(3571)	Obj: To determine the relationships between mineralization and the tectonic history of the host rocks in various tectonostratigraphic domains; to contribute to descriptive and genetic models of mineralization and their application to exploration and resource evaluation with particular emphasis o the central Canadian Shield.							
	NTS: 11; 42; 52; 62; 63; 64; 73; 74							
840020 (3531)	Paleomagnetism of Proterozoic igneous and sedimentary rocks of the Precambrian Shield	Fahrig, WF	LCS	-	PMag	Nfld NB NS Que Ont Man Sask Frank Mack Kee		
	Obj: To measure the paleomagnetism of determining the correlation of the movements of cratonic plates since apparent polar wandering curve for	ese units, their paleolatitu ce the formation of these u	de at the inits and	time of	their forma	ation, the relative		
	NTS: Pts 12-14; 21-27; 30-39; 40-49; 52	-58; 62-66; 73-78; 84-88; 97	7					
840021	Study of Gaspé Granites	Whalen, JB	LCS	-	PET	Que		
(3531)	Obj: To improve existing maps of detail 1. the various granite phases and t 2. the mineralogy and modal abund 3. the bulk rock major and trace e 4. the mineral phase compositions 5. isotope and rare earth geochem	their field relationships; dances in various phases; dement compositions of unit for magma modelling, and		ling to esta	blish:			
	NTS: Pts 22 A,B							
840023* (3531)	Stratigraphy and sedimentology of Silurian rocks of Gaspé	Currie, KL	LCS	-	PET	Que		
	Obj: To determine the tectonic-stratign from the provenance, environment							
	NTS: Pts 22 B							
840024* (3531)	Geology of the Northern Long Range Mountains, Newfoundland and adjacent areas	Currie, KL	LCS	-	PET	Nfld		
	Obj: To map and describe the metamo areas at 1:100,000 or more detailed mineral potential.	rphic and plutonic rocks of d scale; to determine the ge	the North eological e	nern Long R evolution of	this terrar	ntains and adjacent ne, and evaluate its		
	NTS: Pts 12 H,J; 2 E							

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
	Regional Interpretation of	Charbonneau, BW	MR	EGP	RG	Kee Mack		
	To repare compilations of airbo	1	0	scales of lic data set	l:1,000,00 s, and inte	0 and 1:5,000,000. erpret the results in		
	NTS: <u>65 B,C; 75 D,E</u>							
840027	Technology Transfer	Collett, LS	DGO	-	-	-		
SCOK	NO proxite adjice par developments at communicate these developments at	or the benefit of the Can ience technology relevant nd other aspects of geoscie	adian miner to industry ence techno	al and ene and other logy in wri	rgy resour governme ting.	ce industry; also to ent agencies; and to		
840028	Applications of Gamma Ray	Ford, KL	MR	EGP	RGG	Ont NB NS		
S)/CU	RENT INFORMATION Object maximize the prefulness of airbornal analytic sectorical mapping; an 2. a multi-element exploration tectors.		tric surveys	as:				
	NTS: <u>31</u> C, <u>L</u> ; 21 G,J; <u>11 D</u>							
840029*		Hunter, JA	MR	EGP	TG	Mack		
(33/EUI	NOTE AND AND THE AND OF SHORE A GEOD NOTE AND ALLABORE AND OFFSHORE AND STREET AND STREE	hysical capability for eval areas.	uation of th	e nature ar	nd extent o	of permafrost in the		
8400 <b>30*</b> (3573)	Interpretation of Standard Geophysical Logs	Katsube, TJ	MR	EGP	-	Ont Man		
CANC	1. To develop and apply methods of Fuel Waste Management Program 2. To determine the physical prope 3. To determine rates of fluid and	m. erty distribution in rock ma	sses over di	stances of	kilometre			
	NTS: 31 K; 41 J; 52 B,L; 62 I							
840031* (3573)	Borehole Geophysics/Applications	Killeen, PG	MR	EGP	BG	Ont Que Man NB NS		
C	Obj. To develop and demonstrate the application of integrated borehole geophysical measurements in mineral							
	To determine methods to quar development.	ntify these measurements	, and to pr	oceed wit	h the req	uisite experimental		
	NTS: 41 J; 42 A; 52 L; 63 F; 20 O; 21 O, 1	11 E						
840032* (3574)	Lithogeochemical Studies, Gaspé Peninsula	Maurice, YT	MR	EGC	GMR	<u>Que</u>		
	Obj: To provide systematic data on a re the Gaspé Peninsula. This will pern degree of weathering which has aff geochemical data. All this inform concentration of economic minerals	nit reconstitution of the ex- fected these rocks, and hel nation will ultimately lead	volution of t p in the inte	he sedimer erpretation	ntary succ of surfici	ession, evaluate the al (stream, soil, till)		
	NTS: 22 A,B,G,H							
840033*	Potential geologic hazards to	Luternauer, JL	С	-	PMG	Pacific		

(3512) development - seafloor and shallow Offshore subbottom of Queen Charlotte Sound, B.C.

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.

NTS: 102 I,O,P

Number	Title	Leader	Div.	Subdiv.	Sec.	Prov.		
840035* (2551)	Géologie du Quaternaire et géochimie des tills de la région Mont-Joli/La Rédemption, Québe	Veillette, JJ	TS	QG	~	Que		
	Obj: 1. Cartographier les formations e 2. Déterminer la répartition, la transport des matériaux.				coulemen	ts glaciaires sur le		
	<ol> <li>A l'aide des résultats de la minéralisation.</li> </ol>	boratoire et des travaux	de terrain	délimiter	, s'il y a	lieu, les zones de		
	NTS: Pts <u>22 A,B</u> ,C, <u>G,H</u>							
840036 (3541)	Seismic Systems Development	Nichols, B	AGC	RR	ОВМ	Atlantic Offshore		
	Obj: To coordinate the procurement, design, construction, and implementation of systems for the acquisition and processing of seismic data.							
840037	Magnetic Interpretation Techniques	Broome, HJ	LCS	LG	AI	-		
(3533)	Obj: To develop new qualitative and q well as the refinement, compilation	uantitative methods for the on and documentation of exis	e geologica sting meth	d interpret	ation of a	eromagnetic data as		
840038 (3540)	Ocean Drilling Program: planning	Ross, DI	AGC	-	-	Atlantic Offshore		
	<ol> <li>To contribute effectively to the national and international planning processes of the Program.</li> <li>To complete planning for drilling in the Labrador Sea and possibly Baffin Bay in 1985, under the auspices of the Canadian Planning Committee.</li> </ol>							
840039* (3543)	Evolution of east coast Paleozoic Basins	Bell, JS	AGC	EPG	PBG	NS NB PEI		
	Obj: 1. To obtain an understanding of offshore continental margins o 2. To incorporate new data as the 3. To use the data compilations a	f eastern Canada. ey become available.						
	NTS: 11; 20; 21							
840040 (3567)	Aeromagnetic Survey Contract: Northwestern Baffin Island	Ready, EE	G	Α	CS	Frank		
	Obj: To provide adequate aeromagne stimulation to mineral exploration. The contract entails the acquisit medium sensitivity aeromagnetic.	in the area. tion and compilation of ap	proximatel	y 64,000 li	ine kms. c			
	NTS: 48 A,B,C,D; 58 A,D							
840041 (359)	Canada-Saskatchewan Mineral Development Agreement (ERDA)	Galley, AC	DGO	-	-	Sask		
	Obj: To coordinate ERDA supported, integration and completion.	GSC geoscience investiga	tions in S	askatchewa	in to ensu	re their timeliness,		
840042 (359)	Canada-Manitoba Mineral Development Agreement (ERDA)	Galley, AC	DGO	-	-	Man		
	Obj: To coordinate ERDA supported integration and completion.	l, GSC geoscience investi	igations in	Manitoba	to ensur	re their timeliness,		
840045*	Stellarton Basin Analysis	Yeo, G	LCS	-	PET	<u>NS</u>		
(3531)	Obj: During the period 1984-1989 to re of the Stellarton Graben and adja and metal (especially Cu, Pb and U	cent areas, to provide a ba						
	NTS: Pts 11 E							
840046* (3511)	Geology of the Iskut River – Telegraph Creek, British Columbia	Anderson, RG	С	-	CMG	<u>BC</u>		
	Obj: To update geological mapping a plutonism and structure and to pro stratigraphy defined to the east a	ovide details useful in miner	ral explora	tion. An a				
	NTS: <u>104 A,B</u> ,C,F, <u>G</u>							

Project

Project

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
840047 (3521)	Compilation of the geology of the Innuitian Region	Trettin, HP	ISPG	RG	AI	Frank		
	Obj: To produce a comprehensive r American Geology) series.	eport on the geology of the	Innuitian re	gion as par	t of DNA	G (Decade of North		
	NTS: 89 A; 120 C; 340 C,D							
840049* (3524)	Stratigraphy and sedimentology of the Lower Cretaceous Hulcross and Boulder Creek Formations, Rock Foothills, Alberta and British Columb	•	ISPG	CG	CG	BC Alta		
	Obj: To describe the Lower Cretar collect fossil flora and fauna; Boulder Creek Formation throu environments in which the man geological model that will be o	to provide data on the origin, Ighout the region; to attempt ine-fluvial-deltaic sediments	distribution to determir were deposi	and conting ne criteria ted, and to	uity of couseful in o eventuall	oal seams within the determining the sub- ly provide a regional		
	NTS: 83 L,M; 93 I,O,P; 94 A,B							
840050* (3571)	Metallogeny of Ultramafic and Mafic Rocks	Eckstrand, OR	MR	MD	MDG	Ont Que <u>Man</u> Sask Mack <u>NB</u>		
	Obj: 1. To increase the understand	ing of the occurrence and orig	gin of minera	ıl deposits a	associated	with ultramafic and		
	2. To provide geological know	such rocks including nickel,	loration, de copper, plati	velopment, inum group	exploitat elements	ion and appraisal of , cobalt, chromium,		
	NTS: 42 A; 52 E,L,H; 23 J; 63 K,O; 6	4 C; 74 A; 75; 76; 21 B,G						
840051* (3571)	Geological Evaluation and Remote Sensing (GEARS)	Rencz, AN	MR	EG	MAG	Ont Yk Que NS NB		
	Obj: 1. To initiate and develop rem 2. To develop programs/project 3. To assist in cooperative pre and planned projects.	cts in image analysis; and						
	NTS: <u>31 C</u> ,F,J,K; 105 I; <u>11 D,E,F</u> ; 21	J,L						
8400 <i>5</i> 2* (3574)	Heavy Mineral Studies, Eastern Townships	Maurice, YT	MR	EGC	GMR	Que		
	Obj: To evaluate the favourability elements on the basis of the di	for the occurrence of econom spersion of heavy minerals in	nic deposits streams.	of Au, Sn,	W, Ba, Cr	, and platinum group		
040052*	NTS: Pts 21 E,L; 31 H	Marrian VT	un	ECC	CMD	Oue		
840053* (3574)	Heavy Mineral Studies, Gaspé  Obj: To evaluate the favourability	Maurice, YT for the occurrence of ecor	MR nomic deposi	EGC	GMR Sn, W, Ba	Que a, Ta, Nb and other		
	elements on the basis of the di NTS: Pts 22 A,B,G,H			ŕ				
840054 (359)	Asbestos Initiatives Program – Geoscience Surveys Eastern Townshi Quebec	Anderson, FD	DGO	-	-	Que		
	Obj: To coordinate GSC geoscience investigations in Quebec that are supported by the Asbestos Initiatives Program to ensure their timeliness, integration and completion.							
	NTS: Pts 21 E,L; 31 H							
8400 <i>55</i> (3 <b>573) C</b>	Rock Properties Laboratory  NOTo AVAILABLE rock pr  2. To investigate physical roc	operty measurements in supp	MR ort of other lationships.	EGP projects (e.	BG g. Boreho	- le Logging).		
840056 (3541)	Potential Fields Data Base Operations	Shih, KH	AGC	RR	GPS	-		
,	Obj: 1. Prepare data for national r 2. Develop and maintain softs 3. Prepare data for publication	ware for access, manipulation	and retrieve and display	the data from	om it. AGC.			

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.	
840057* (3533)	Selected contract geophysical surveys in E. Townships, Quebec	Schwarz, EJ	LCS	LG	AI	Que	
,,,,,,	Obj: To stimulate mining exploration by placers (Au) and river channels by ma NTS: 21; 31	geophysical surveys. To gnetic survey with particu	o investig lar refere	gate the po ence to Cha	ossibility o udiere Rive	f detecting buried er Valley Deposits.	
840058*	Follow-up Geochemistry	(Rogers, PJ)	MR	EGC	-	NS	
(3574 <b>CU</b>	OD: Assess, investigate and determine to det	the geochemical nature of evelop new mineral explora	f regiona tion meth	ally defined nodologies.	anomalies	in the secondary	
940050*	NTS: Pts 11 D,E,F,K,N	Distance TO	un	ш	DHC	NELLNIC	
840059* (3571)	Metallogeny of Eastern Canada II	Birkett, TC	MR	MD	RMS	Nfld NS NB Que	
	Obj: 1. To determine the relationships be Appalachian, eastern Grenville and 2. To contribute to descriptive and exploration and resource evaluation	d Superior and southeaster genetic models of mineral	n Churchi	II Province	•		
840060 (359)	Canada-Newfoundland Mineral Development Agreement (ERDA)	Poole, WH	DGO	-	-	Nfld	
	Obj: To coordinate ERDA-supported GSG integration and completion.	C geoscience investigatio	ns in Ne	wfoundland	to ensure	e their timeliness,	
840061 (3540)	Boundary disputes: St. Pierre and Miquelon; Beaufort Sea	Ross, DI	AGC	-	-	Atlantic Offshore Arctic Offshore	
	Obj: To manage investigations by AGC a effectively to advice from EMR to E involving the earth sciences, and hydrometric expensions.	xternal concerning these of	disputes in	n the period	d 84/85 and	d 85/86 in matters	
840062* (3573)	Geophysical Studies – Nova Scotia Mineral Development Agreement	Richardson, KA	MR	EGP	TG	<u>NS</u>	
CURRENTE REPORTION  NO Praction Report Hood and Springhill  NO Praction Report Hood and Springhill Report Hood And I have the Advanced Hood And I have the Advanced Hood Report Hood and Springhill Report Hood And I have the Advanced Hood Hood Hood Hood Hood Hood Hood Ho							
840063* (3573)	Ice Island Seismic Reflection Studies	Overton, A	MR	EGP	TG	Arctic Offshore	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	CURRENTUINFORMATION XPER NO THE AVAIL PARTY TO THE TELECTION	riments on the Ice Island, s, with occasional tests for	, to estal Moho re	olish optimi	um parame	eters for recording	
840064 (359)	Canada-Nova Scotia Mineral Development Agreement (ERDA)	Poole, WH	DGO	-	-	NS	
,,	Obj: To coordinate ERDA supported GS integration and completion.	SC geoscience investigati	ons in N	ova Scotia	to ensure	e their timeliness,	
840065 <b>*</b> (3567)	Aeromagnetic Gradiometer/VLF EM Contracted Survey — Manitoba (MDA 1984-	Ready, EE 89)	G	Α	CS	Man	
	Obj: To carry out aeromagnetic gradiom exploration especially in drift-cove Agreement 1984-1989.						
	NTS: Pts <u>63 J,K,N; 64 B,C; 52 E,L,M</u>						
840066 (359)	Canada-New Brunswick Mineral Development Agreement (ERDA)	Anderson, FD	DGO	-	-	NB	
	Obj: To coordinate ERDA supported GS integration and completion.	C geoscience investigation	ns in Nev	w Brunswic	k to ensur	e their timeliness,	

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.			
840067 (3567)	Aeromagnetic Surveys, Digitization and Compilation of Existing Aeromagnetic Data Contract: Juan de Fuca Strait to Dixon Entrance	Knappers, WA	G	A	CS	ВС			
	Obj: To provide a comprehensive aeromagnetic data base of the above area as an aid to exploration of the Pacific Margin Basin. The contract entails the acquisition and compilation of approximately 27,000 line kms. of digitally-recorded medium sensitivity aeromagnetic data extending over approximately 60 1:50,000 map sheets as well as the digitization and adjustment of existing industrial aeromagnetic data amounting to 30,000 line kilometres approximately.								
	NTS: 92 C,D,E,F,L; 102 I,O,P; 103 A,B,C,	F,G,J,K,L							
840068 (3567)	Aeromagnetic Gradiometer/VLF EM Contracted Survey — Saskatchewan (MDA 1984-89)	Ready, EE	G	Α	CS	Sask			
	Obj: To carry out aeromagnetic gradion exploration especially in drift-cove Agreement 1984-1989.	neter/VLF EM surveys as red areas and in support o	an aid to of the Can	detailed ge ada-Saskat	eological r chewan N	napping and mineral Mineral Development			
	NTS: Pts 63 K,L; 64 D, 74 A								
840069 (3567 <b>CL</b>	REPORT AVAILABLE	Ready, EE	G	A	CS	Que			
	Obj: To carry out aeromagnetic gradion exploration especially in drift-cover	red areas and in support of	the Feder						
	NTS: Parts of 21E/4; 21E/11; Part of 21E	/14; Part of 31H/1; Pts 21	E; 31 H						
840070 (3567)	Aeromagnetic Gradiometer/VLF EM Contracted Survey – Gaspé Peninsula – Quebec	Ready, EE	G	A	CS	Que			
	Obj: To carry out aeromagnetic gradior exploration especially in drift-cove Development Plan.								
	NTS: Pts 22 A,B,H								
840071* (3567)	Aeromagnetic Gradiometer/VLF EM Contracted Survey – New Brunswick (MDA 1984-89)	Ready, EE	G	Α	CS	<u>NB</u>			
	Obj: To carry out aeromagnetic gradion exploration especially in drift-cove Agreement 1984-1989.								
	NTS: Pts 21 J,O,P								
840072* (3567)	Aeromagnetic Gradiometer/VLF EM Contracted Survey — Nova Scotia (MDA 1984-89)	Ready, EE	G	A	CS	<u>NS</u>			
	Obj: To carry out aeromagnetic gradion exploration especially in drift-con Agreement 1984-1989.	meter/VLF EM surveys as vered areas and in suppo	an aid to rt of Car	detailed go nada-Nova	eological i Scotia M	mapping and mineral Mineral Development			
	NTS: Pts 20 P; 21 A,H; 11 D,E								
840073* (3567)	Aeromagnetic Gradiometer/VLF EM Contracted Survey - Newfoundland (MDA 1984-89)	Ready, EE	G	A	CS	Nfld			
	Obj: To carry out aeromagnetic gradion exploration especially in drift-cover Agreement 1984-89.	meter/VLF EM surveys as ered areas and in support of	an aid to of the Car	detailed g nada-Newfo	eological oundland M	mapping and mineral Mineral Development			
	NTS: Pts 12 A,H; 2 E								
840074 (3567)	Aeromagnetic Surveys: Beaufort Sea Northern Yukon Territory	Knappers, WA	G	Α	CS	Yk Frank			
	Obj: To carry out an aeromagnetic su aeromagnetically surveyed in the B	eaufort Sea to provide data	kenzie De a for the B	elta adjace oundary Di	nt to an spute Pro	offshore area to be gram.			
	NTS: Pts 107 B,C,D,E,F,G,H; 97 F,G; 117	<sup>,</sup> м,в,С,D,E,F,G,H							
124									

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
84007 <i>5</i> (3522)	Thermal Maturity Studies of the Paleozoic Sedimentary Rocks, Arctic Islands	Norford, BS	ISPG	P	MiP	Mack Frank
	Obj: Determination of the thermal histo Arctic Islands, using microfossil colo these studies will indicate hydrocarbo	ur changes and vitrinite re	flectance	of the sed		
	NTS: 48; 49; 50; 58; 59; 60; 67-69; 77; 78;	79; 87-89				
840076* (3522)	Paleozoic biostratigraphy and biofacies studies	Norford, BS	ISPG	P	MiP	Frank <u>Yk</u>
	Obj: Establishment and refinement of bio rocks of Ordovician to Permian age i macrofaunas; in support of ongoing e	n the Arctic Islands, by con	nbined st	udies of mi		
	NTS: 48; 49 F; 50; 58; 59; 60; 67-69; 77-79;	87-89; <u>106</u> ; <u>116</u>				
840077 <b>¾</b> (3521)	Structural geology and tectonic and stratigraphic analyses, northern Mainland and adjacent continental shelf	Lane, LS	ISPG	RG	AI	Mack
	Obj: Our greatest deficiency in understan Delta lies in extremely limited struct 1. Determining the geometry, seque diapiric structures. 2. Establishing the basic structural	tural and tectonic synthese ential development, tempor geometry and seismostratig	s. This program and go	roject will a enetic relat the lower p	address that tionships of eart of the	at deficiency by: f normal faults and supracrustal wedge
	and subjacent lithosphere from the Canada Basin.	ne northern mainland acro	ss the co	intinental s	nell to the	e southern edge of
	NTS: 106; 116; 107; 117					
840078 (3521)	Structure and stratigraphy of the Paleozoic-Mesozoic basins of Melville and adjacent Islands	Christie, RL	ISPG	RG	AI	Frank
	Obj: 1. To obtain an improved understa Sverdrup sedimentary basins in migration mechanisms, and entra 2. To derive improved models of tectonics.	the Melville-Bathurst Islar oment, of hydrocarbons.	nds region	n, to bette	r understa	and the source and
	NTS: 78; 79; 88; 89; 98; 99					
840079* (3521)	Stratigraphy and structure of Arctic Continental Shelf	Embry, AF	ISPG	RG	AI	Frank
	Obj: - To determine the crustal structur - To determine the structural and s - To evaluate the petroleum potent	tratigraphic architecture o		nerozoic su	eccesion of	the Shelf.
	NTS: 79 G,H; 89 E,F,G,H; 99 E,F,G,H; 560	B,C,D,E,F,G,H; 340 G,H				
840080* (3523)	Petroleum Geology, Sverdrup Basin, Franklinian Geosyncline and Arctic Interior Platform	Podruski, J	ISPG	PG	PR	Frank
	Obj: To determine the distribution of sou Mesozoic rocks of the region and to a basin studies program for the Frankli	add thermal, hydrodynamic				
	NTS: 78 F,G,H; 79 B; 88 E,H,G; 89 A					
840081 (3521)	Upper Paleozoic stratigraphy, Melville Island	Nassichuk, WW	ISPG	-	-	Frank
	Obj: To compare upper Paleozoic subsurf elsewhere in the Sverdrup Basin, incl upper Paleozoic depositional, stratig and reef development critical to an a	uding northern Ellesmere Is graphic framework for the	sland and Sverdrup	Axel Heibe	erg Island,	and to establish an

NTS: 78 B,G; 88 H

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Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
840082*	Geology of the Arctic Islands	Okulitch, AV	ISPG	RG	AI	Frank
(3521)	Obj: Compilation of bedrock geology maps scale to provide regional and evaluati assessment. These compilations will for planning purposes and large scal volume.	ons of geologic knowledge also be used to produce re	of the Arc egional ma	ctic Islands ps at 1:2,0	in concise 00,000 and	form for resource 1:5,000,000 scales
	NTS: 59 A,B; 57 F; 67 E					
840083 (3543)	Regional geology of the sedimentary basins of the continental margin of Newfoundland, Labrador and Baffin Bay	McAlpine, KD	AGC	EPG	-	-
	Obj: To further our understanding of th Newfoundland, Labrador and Baffin I basin; to generate the necessary data	Bay; to develop maturation	n models	to explain	the therma	
840084 (3543)	Interpretation of geophysical data from the Scotian Margin and adjacent areas as an aid to basin synthesis and estimation of hydrocarbon potential	MacLean, BC	AGC	EPG	-	-
	Obj: To develop a structural and seismo- Margin, as a means to an updated assessment.					
840085* (3541)	Seismic Refraction along the Canadian Polar Margin	Jackson, RH	AGC	RR	OBM	Arctic Offshore
	Obj: To collect seismic refraction data on 1. Crustal cross-sections of the conti 2. Sedimentary thickness and basem region.	inental margin to understa	nd its deve	elopment.		n potential of the
840086* (3542)	Ice Island Sampling and Investigation of Sediments (ISIS)	Mudie, PJ	AGC	EMG	P	Arctic Offshore
	Obj: 1. To determine the spatial distriproperties of the sediment cover of the sediment	on the continental margin of ficial lithofacies on this matern Canada.	of Canada nargin whe	Basin. ere condition	ons are pro	bably analogous to
	<ol> <li>To conduct high resolution biostrareas of high sedimentation rates.</li> <li>To correlate paleoenvironmental Arctic Ocean.</li> </ol>	data from the Canadian	Basin Mar	gin with C		
	<ol><li>To construct a quantitative sedimental</li></ol>	ent budget for the Arctic (	O. margin.	•		
840087* (3533)	Geophysical Interpretation — Precambrian	McGrath, PH	LCS	-	LG	Ont Mack
	Obj: To use geophysical data to enhance keep on its third dimension.	knowledge of the regional a	aspects of	the Precan	nbrian crus	t with an emphasis
	NTS: 41; 42; <u>75 0</u>					
850001* (3531)	Tectonic Investigation of the Valhalla Gneiss Complex and Vicinity, Southeast BC	Parrish, RR	LCS	-	G	<u>BC</u>

Obj: To assess the structural kinematics of deformed gneisses in the complex, to perform detailed structural and stratigraphic mapping of the metasedimentary part of the complex, to determine the tectonic relationship between rock units of the dome to the Castlegar gneiss to the south, the Nelson Batholith to the east, the Slocan Sycline to the north, and to the Monashee Complex to the northwest, and to collect rocks for age determinations relevant to formulating a tectonic model for this area.

NTS: 82 F (W 1/2)

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
850002* (3531)	Chesterfield Inlet (55¢), and Parts of Tavani (55K/9,16) and Marble Island (55J/13,14) map areas, District of Keewatin, NWT	Tella, S	LCS-	NC	Kee			
	Obj: To map the bedrock geology at s distribution, structure, and metamore distinguish the effects of Kenoran a be placed on the study of shear zone	orphism of the basement and Hudsonian Orogenies, a	complex and to asse	and that o	of the sup	acrustal rocks, to		
	NTS: Pts 55 J,K,O							
850003* (3531)	Cape Smith Fold-Thrust Belt — East End	St-Onge, MR	LCS	-	BS	Que		
	Obj: 1. Analysis of strain patterns withi levels with brittle strain at highe 2. Resolution of horizontal and ver culminations. 3. Study of the metamorphic assem	er structural levels. tical contributions to the	net strain	in both the	fold-thrus1	belt and basement		
	NTS: <u>35</u> G, <u>H</u> ; <u>25 E</u>	J		-	•			
850004*	Geology of the Wager Bay "Shear Zone"	Henderson, JR	LCS	_	NC	Kee		
(3531)	Obj: To determine the cause of the inter Wager Bay (for reference see G.S.C. and south to the zone.							
	NTS: Pts 56 G,H,J; 46 E							
850005* (3531)	Geology, Taltston Lake and Fort Resolution Map-areas	Bostock, HH	LCS	-	BS	Mack		
	Obj; To complete reconnaissance scale Resolution (86H) map-areas.	mapping of Precambrian	n rocks w	ithin the 1	Talston La	ke (75E) and Fort		
	NTS: <u>75 E</u> ; 85 H							
850006* (3531)	Structural Studies in the Metamorphic Hinterland of Wopmay Orogen	King, JE	LCS	-	BS	Mack		
	Obj: Structural analysis, evaluation ar geometries at high and low structural							
	NTS: Pts <u>86 B,G,J,K,O</u>							
850007* (3532)	Paleomagnetism of the Appalachian orogen of Eastern Canada	Buchan, K	LCS	-	PMag	Nfld NB NS Que		
	Obj: To test models of the evolution of Appalachian terranes of Eastern North America during the Paleozoic.							
	NTS: Pts 1; <u>2</u> ; 11; <u>12</u> ; 21; 22							
850008* (3552)	Geological and geotechnical conditions, Beaufort Sea coastal zone	Dallimore, SR	TS	TD	GPEG	Mack Yk		
	Obj: To provide geological and geotechn including information on the surfar permafrost and ground ice condition development, sitting, design and con Beaufort Sea region.	ace deposits and landform ions; and active geomorph	ns; the su nological p	bsurface ge processes, s	eological notes to as	naterials, including sist in the orderly		
	NTS: Pts <u>107, 117</u>							
850009*	Metallogeny of Eastern Canada I	Robert, F	MR	MD	RMS	Que Ont		
(3571)	Obj: 1. To determine relationships between swith emphasis on southeastern S	ween mineral deposits and uperior Province and on so	their geo	ological env n Grenville	ironments Province.	in Eastern Canada,		

2. To contribute to descriptive and genetic models of mineral occurrences and to their application to exploration and resource evaluation in these regions.

NTS: 31, 32

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
850010* (3531)	Regional Correlation, gold-bearing volcanic belts, Flin Flon-Southend-La Rong	Froese, E ge	LCS	-	PET	Sask
	Obj: To gain a unified comprehension of and bordered by volcanic rocks of th subdivision of the Kisseynew gneisses	e Flin Flon and Lynn Lake	tures in belts.	an area und The work w	lerlain by it is a second to the second to t	Kisseynew gneisses size a stratigraphic
	NTS: Pts 63 L,M; 64 D					
850011* (3531)	Structural studies, Thompson Belt, Manitoba	Froese, E	LCS	-	PET	Man
	Obj: To study problems of structural geolinvestigation of the Pipe 2 mine prop 20 km in extent.					
	NTS: 63 O,P					
850012 (3571)	Supervision, Ottawa-Carleton U GSC Joint Stable Isotope Laboratory	Taylor, BE	MR	MD	MDG	-
	Obj: To provide appropriate expertise and the terms of reference provided Memorandum of Understanding and d	by the GSC-OCCGS (Ot	tawa-Ca	rleton Cent	tre for G	e Laboratory, under eoscience Studies)
850013 (3571)	Light Stable Isotope Geochemistry of Rock and Ore-Forming Processes	Taylor, BE	MR	MD	MDG	Ont
	Obj: 1. To provide a better understandi Canada.  2. To develop models of ore-for characteristics.					
	NTS: 52					
850014* (3531)	Geological and Geophysical Studies of the Kapuskasing Structure	Percival, JA	LCS	-	SG	Ont
	Obj: To carry out and support field and la as an integral part of the Kapuskasin	aboratory investigations on g Lithoprobe project.	the Kap	uskasing str	ucture and	d surrounding region
	NTS: 41 O,N; 42 B,C,G,I,J; 52 B,C					
850015 (3531)	Georesource Studies of the Nain and Churchill Structural Provinces in North River (14E) and Nutak (14F) map-areas, Labrador (Newfoundland and Quebec)	Ermanovics, IF	LCS	-	SG	Nfld Que
	Obj: Develop the georesource data base tectonic zone supported by detailed a	in the study area and co gravity studies and by mode	onstruct elled mag	a model of gnetic'total	the Nain- field data	-Churchill boundary
	NTS: 14 E,F					
850016* (3531)	Granites of the Eastern Meguma Terrane	Hill, J	LCS	-	PET	NS
(3331)	Obj: To raise to a common professional associated mineralization, that lie w the tectonic evolution of the region.	standard, geological kno rithin the Meguma terrane	wledge of east of B	of the grani Halifax (63°	tic rocks, 30'W); to p	their aureoles and place the granites in
	NTS: Pts 11 D,E,F					
850017*	Geology of the southern Long Range	van Berkel, JT	LCS	-	PET	Nfld
(3531)	Obj: To map the geology and structure o megascopic structure and petrolog Appalachians.					
	NTS: Pts 12 A,B					
850018* (3531)	Structural analysis of the northern part of the Miramichi Massif	van Staal, C	LCS	-	PET	NB
	Obj: To gain a better understanding of rocks in New Brunswick to develop a					g camp and related
	NTS: Pts 21					

Number	Title	Leader	Div.	Subdiv.	Sec.	Prov.
850019*	Study of the New Brunswick batholith belt	Whalen, JB	LCS	-	PET	NB
(3531)	Obj: 1. To improve existing maps for pet 2. To establish the mineralogy, m compositions of the various pluto 3. To interpret the implications of New Brunswick.	nodal compositions and whonic rock types recognized b	ole rock y earlier	workers (Fy	ffe et al.,	1981).
	NTS: Pts 21 G,J,O,P					
850020 <b>*</b> (3541)	CIGAL – Computer Integrated Geophysical Acquisition and Logging	Loncarevic, BD	AGC	RR	-	-
	Obj: To replace BIODAL with a state-of-	the-art Data logging device	•			
850021* (3542)	Marine Geotechnical studies of the Canadian Eastern and Arctic Continental Shelves and Slopes	Moran, K	AGC	EMG	SG	Atlantic Offshore
	Obj: To determine the geotechnical and Continental Shelves for the determine the regional assessment of foundation the Quaternary history studies of the continental margins.	nation of geologic constrain on conditions during the tim	nts to offs ne frame o	shore and h of hydrocarl	ydrocarbor bon develo	n development; for pment; for input to
850022 (3541)	Analysis of Marine and Satellite Gravity and Geoidal Data	Woodside, J	AGC	RR	-	-
	Obj: 1. Analysis of long wavelength comof structure and isostatic respons 2. Improve expertise and analytical	se of the lithosphere.				l margins in terms
850023* (3523)	Organic geochemical and maturation studies, Mainland N.W.T. and Yukon	Macqueen, RW	ISPG	PG	PR	Mack Frank Kee Yk
	<ul> <li>Obj: 1. To investigate maturation profil Highway, northern Yukon and N. history/tectonic setting.</li> <li>2. To continue studying aspects of settings.</li> <li>3. To undertake study of the organical Yukon.</li> </ul>	W.T., in order to better und the organic geochemistry	derstand t	heir petrol	eum poten	tial and subsidence
850024* (3531)	Diagenesis and structure of the Albert Formation	Currie, KL	LCS	-	PET	<u>NB</u>
	Obj: To determine whether there are larger respect to oil shale and metals poten		Albert For	mation, and	d to assess	its diagenesis with
	NTS: 21 G, H, I (parts of)					
850025* (3531)	Geological evolution of the southwest Churchill Province	Gordon, TM	LCS	-	PET	Man
	Obj: To elucidate the tectonic evolution geochronological studies and by relative studies.				e in Man	itoba by selected
	NTS: <u>63 N,O; 64 A,B,C</u>					
850026* (3522)	Mesozoic and Tertiary biostratigraphy and paleoecology	Wall, JH	ISPG	P	AI	Frank
	Obj: To assess the assemblage compositi microfaunas (chiefly foraminifera), a define subsurface and outcrop strati	microfloras, ammonites and	cance and bivalves	f paleoecolo of the Sver	ogy of Mes drup Basin	sozoic and Tertiary n in order to better
	NTS: 49; 59; 69; 79; 88; 89; 98; 340; 560					
850027* (3522)	Macropaleontology, micropaleontology and palynology of the Mesozoic and Lower Tertiary of the northern Yukon and western District of Mackenzie	McNeil, DH	ISPG	P	MiP	Yk Mack
	Obj: To apply and expand existing bios micropaleontology (Foraminifera) an and Interior Plains sequences as part	nd palynology; relationships	s of these	ontology (A zonations	mmonoids to onshore	and Bivalves) and e Mackenzie Delta
	NTS: 95; 96; 97; 105; 106; 107; 116; 117					

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Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
850028* (3522)	Micropaleontology, palynology and macropaleontology of the surface and subsurface Paleozoic of the northern Yukon and western District of Mackenzie	Bamber, EW	ISPG	P	MaP	Yk Mack
	Obj: To establish and extend biostratigra groups: palynomorphs (Carbo (Carboniferous/Permian), corals (I Paleozoic macrofauna. Interpretation	oniferous/Permian), co Devonian/Carboniferous),	onodonts brachiopo	(Upper ds (Devoni	Paleoz an to Po	oic), ammonoids ermian) and Lower
	NTS: 97; 106 B,E,F,L; 107; 116 C,H; 117; 8	85 D; 95 A				
850029 (3522)	Cretaceous-Tertiary biostratigraphy and paleoecology, palynomorphs and microfossils	McNeil, DH	ISPG	Р	MiP	Yk Mack
	Obj: Establishment, refinement, and app subsurface successions of Late Cret of J. Dixon project: Stratigraphy an	aceous and Tertiary age i	n the Mac	kenzie Delt	a and Bea	aufort Sea in support
	NTS: 106; 107; 116; 117					
850030* (3522)	Macropaleontology; micropaleontology and palynology of Devonian, Cretaceous and Tertiary rocks of the Interior Plains	Sweet, AR	ISPG	P	MiP	Yk <u>Mack</u>
	Obj: To establish and refine biostratigra ammonoids and bivalves, and De stratigraphic problems arising from	vonian brachiopods, cora	is and co	onodonts ai	nd apply	these to resolving
	NTS: <u>96</u> ; 85					
850031* (3521)	Lower Paleozoic stratigraphy and facies relationships in Wernecke, Ogilvie and Mackenzie Mountains	Morrow, DW	ISPG	RG	M	Yk
	Obj: To determine the spatial relationsh Wernecke and Ogilvie Mountains; to diagenetic changes that have affect basin transitions or transitions between that commonly influence diagenetic understand the evolution of the basin	o outline both their sedime ted them; to highlight regi veen shelf margin shoal c c patterns and the empla	entologic-toons that complexes occurred to the complexes of the complexes	tectonic set contain abru and interion hydrocarb	ting and a pt interfa platform ons and n	any post-depositional aces such as shelf-to- nal lagoonal deposits nineral deposits. To
	NTS: 106 D; 116 A,H; 95					
850032 (3521)	Stratigraphic and structural analysis of Late Paleozoic strata in the north- western District of Mackenzie and northern Yukon	Cecile, MP	ISPG	RG	M	Yk
	Obj: Late Paleozoic rocks in the norther basin, the north part of which was extension faults, this project combi in the western part of the basin to p	deformed during Ellesmer ines mapping, stratigraphi	ian oroge ic, paleon	nesis and ou cological an	ıt by num d organic	erous strike-slip and geochemical studies
	NTS: 105; 106; 107; 116; 117					
850034 (3523)	Mass Transfer to elements in clastic sequences	Foscolos, AE	ISPG	PG .	GC .	-
	Obj: To study mass transfer of eleme cementation in reservoir rocks and stability fields for common allogenia	d diagenesis of shales.	This data	will be us	understar ed to est	nd the processes of tablish mineralogical
850035 (3524)	Organic maturation and properties of kerogen and bitumen in clastic and carbonate sequences in the Sverdrup Basin and Franklinian Geosyncline	Goodarzi, F	ISPG	CG	СТ	Frank
	Obj: To determine the properties (optical and carbonte sediments. To classified areas to those occurring in the rest	y the bitumen, its origin a	and to mal	ke a compa	rison of bi	itumen from frontier
	NTS: 38; 39; 48; 49; 58; 59; 68; 69; 78; 79;	; 88; 89; 99				

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
850036 (3521)	Mesozoic Basin Analysis of Sverdrup Basin, Arctic Archipelago	Embry, AF	ISPG	RG	AI	Frank		
	Obj: - To determine regional stratigraphic relationships within the Mesozoic strata To determine environments of deposition of the strata To determine the Mesozoic geologic history of the Sverdrup Basin To evaluate the petroleum potential of the basin To provide a logistics base for related university and other EMR research on Sverdrup Basin.							
	NTS: 49 B,C,D,E,F,G; 59 B,C,D,E,F,G; 69;	79; 9 A,B,C,D; 340 B,C,D	; 560 A,B	,D				
850037* (3521)	Stratigraphy and sedimentology of Jurassic-Cretaceous strata northern Cordillera	Dixon, J	ISPG	RG	M	Yk		
	Obj: To evaluate the present stratigraphi strata. To establish an understanding offshore Beaufort Sea.							
	NTS: <u>116</u> ; 117							
850038 (3521)	Stratigraphy and structure of northern Franklin Mountains and adjacent plains	Cook, DG	ISPG	RG	M	Mack		
	Obj: To carry out stratigraphic and struct Coleville Hills in order to gain a bett basins, Phanerozoic depositional seque geometry and mechanism. To evaluate	ter understanding of the I uences and relationships t	Proterozo to tectoni	ic framewor c controls,	rk underlyi and subsec	ng the Phanerozoic quent deformational		
	NTS: 86; 96; 97; 106							
850039* (3521)	Investigation of stratigraphy and tectonic development of lower Paleozoic Platform-Miogeocline margin zone	Mayr, U	ISPG	RG	AI	Frank		
	<ul> <li>Obj: - To describe and understand signifing in the lower Paleozoic platform M</li> <li>- To describe and understand defor Peninsula.</li> <li>- To describe and understand Tert relationship, if any, to seafloor sp</li> </ul>	Miogeocline margin zone.  rmation related to interse  iary transverse faults in	ecting Silv	urian and D	evonian fo	old belts on Grinnell		
	NTS: <u>59 A,B</u> ; 69 A							
850040 (3521)	Structural, Tectonic and Stratigraphic analysis of the Arctic Islands	Stephenson, RA	ISPG	RG	AI	Frank		
	Obj: To determine intermediate and deep refraction seismic techniques.	p structure of the arctic	archipela	igo through	application	on of reflection and		
	NTS: 49; 59; 69; 79; 89; 340; 560							
850043* (3524)	Stratigraphic and coal resource analyses of coal bearing basins of Arctic Canada	Ricketts, BD	ISPG	CG	CG	<u>Mack</u> Yk		
	Obj: To study the coal bearing strata of t emphasis on the Late Cretaceous-Lo Coal Inventory.							
	NTS: 96 C,F; 78 G; <u>49</u> E,G, <u>H</u> ; 59 G,H							
850044 (3524)	Coal-Paleozoic, Mesozoic and Tertiary, western District of Mackenzie and northern Yukon Territory	Cameron, AR	ISPG	CG	СТ	Mack Yk		
	Obj: Examine the structural framework, Upper Devonian, Lower Carbonifero the northern Cordillera and contiguous	us, Lower Cretaceous, U	phy, quali pper Cret	ty, composi aceous and	ition and a lower Ter	areal distribution of tiary coal seams in		
	NTS: 96 C,D,E,F; 106 N; 107 B; 117 C,D; 1	160						
850045 (3523)	Oil/Source correlation for Northern Interior Plains crudes	Snowdon, LR	ISPG	PG	GC	Mack		
	Obj: Acquire and analyze oil, condensate the Northern Interior Plains. Map p to predict location of possible undisc	robable source distributio	samples to ns once s	o make hydr ource rocks	rocarbon/so have been	ource correlations in identified in order		

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
850046 (3522)	Thermal Maturity studies of the Paleozoic of the northern mainland and Tertiary of the Beaufort Sea/ Mackenzie Delta	Higgins, AC	ISPG	P	MiP	Yk Mack
	Obj: Determination of organic maturity of scolecodonts, graptolites and sedimen				use of con	odonts, palynology,
	NTS: 116; 106; 107; 117; 97; 96					
850047* (3574)	Mineral Development Agreements – Geochemistry	Friske, PWB	MR	EGC	RGC	Nfld NB Man Sask Yk Ont
	Obj: To contract and/or conduct orientation To publish high quality multi-ele environmental use.	on, regional and follow-up ment reconnaissance ex	geochemi ploration	ical surveys data for	explorati	on, appraisal and
850048* (3521)	Geological Mapping in the Southern Canadian Rocky Mountains	McMechan, M	ISPG	RG	M	BC Alta
	Obj: To publish 1:250,000 scale maps with	cross-sections for the Sou	thern Car	nadian Rock	y Mountair	ns.
	NTS: <u>82 J</u> ; <u>83 C</u>					
850049* (3551)	Quaternary geology and geomorphology, northern Melville Peninsula	Dredge, LA	TS	QG	-	Frank
	Obj: To map, describe and explain the processes in NTS 47 C in order to pro 1. elucidate the Quaternary history 2. provide information for mineral to meet the need for Quaternary :	ovide areal knowledge of go of the region, and; development and land use	eology an planning.	d terrain the This proje	at will: ect is part	of a long term plan
	NTS: <u>47 C</u>					
850050	Subpaleozoic Compilation/Core Drilling	Gordon, TM	LCS	-	PET	Man
(3531)	Obj: To investigate, map and interpret P the Shield south of the Flin Flon - Sn	recambrian geology benea low Lake Belt in Cormoran	th Paleo t Lake (N	zoic cover i ITS 63 K) m	rocks adjad ap area.	cent to the edge of
	NTS: 63 K					
850051* (3551)	région de l'Ungava, Québec	Veillette, JJ	TS	QG	-	<u>Qué</u>
	Obj: - Comptage de fragments rocheux de Déterminer le pouvoir tampon de Relevé des indicateurs d'écouleme Fournir des données de base pour du Canada.	s sédiments pour les pluies ent glaciaire.		ce secteur	par la Con	nmission géologique
	NTS: 24 K,L,M,N; 25 D,E; 34 I,J,K,L,M,N,	O,P; 35 A,B,C,D,E,F,G				
850052* (3571)	Metallogeny of gold in the continental crust	Poulsen, HK	MR	MD	RMS	NS Que Ont Man
	Obj: 1. To increase understanding of the 2. To work toward definition of the deposits; to develop criteria for ( 3. In the short term to provide desc DNAG volume on "Mineral Depos	e geological processes and a) exploration, and (b) asse riptions of major types of	environn ssment o	nents impor f gold poter	tant in the	e formation of gold
	NTS: 11 D,E,F; 42 A,E; 32 C,D,E; 63 J,K					
850053* (3573)	Geophysical Studies – New Brunswick  CURRENTOINFORMATION  Obj: Norduckyinder a geophysical manneral deposits.  2. Apply airborne geophysics to the	Richardson, KA  aps to aid in geological m investigation of the Miram	MR napping a	EGP  Ind identifications  Indicate area	- cation of f	NB avourable areas for
	NTS: 21 G,J			1		

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
850054* (3573)	Geophysical Studies – Newfoundland Mineral Development Agreement	Richardson, KA	MR	EGP	-	Nfld
-	Produce airborne gamma ray special Deferming Artanno by ehole g NOT Nawtoundland zinc, Rambler and I NTS: I M: 2 D; 110; 12 A,B,G,H,I; 14 D	trometric and VLF-EM map eophysical methods for Buchans.	os of sele detection	cted parts on of orebo	of Newfoundies of the	dland. ne types such as
850055* (3543)	Quantitative stratigraphy in paleoceanography and petroleum basin analysis	Gradstein, FM	AGC	EPG	-	-
	Obj: To develop new approaches to Quant eastern Canada and contiguous areas.		apply th	is to the se	dimentary	basins of offshore
850056 (3543)	Regional geophysics of Mesozoic- Cenozoic of Baffin Bay-Labrador Margin	Bell, JS	AGC	EPG	-	-
	Obj: To develop an understanding of the delineate oil and gas plays and prosped with related disciplines to develop see	cts for input into the resou	irce appr			
850057 (3543)	Sedimentology of east coast formations	Cant, DJ	AGC	EPG	-	Atlantic Offshore
	Obj: To study development and destruction and the role of source rocks and hydro					iagenetic changes,
850058 (3573)	Airborne Resistivity Mapping	Palacky, GJ	MR	EGP	SP	Man Ont Mack Kee
CURI	RENTES INFORMATION systematic NOT de a martia Bliffextent, thickness (not thicker than 200 m) and shallow-	airborne resistivity surve and resistivity of glacial water bathymetry.	eys in C overburd	anada for len, permai	mineral re frost and s	esource inventory, sedimentary cover
850059 (3531)	The tectonics of Archean and Proterozoic gneisses bordering the Ungava Trough	Baragar, WRA	LCS	-	SP	Qué
	Obj: 1. To map and interpret in tectonic t	erms the external structur	al and lit	hological se	etting of th	e Ungava Trough.
	NTS: Parts of 35 C,F,K,L			_		
850060 (3567)	Aeromagnetic Survey – Laurentian Channel	Knappers, WA	G	Α	CS	Nfld NS
	Obj: To carry out a medium sensitivit Laurentian Channel and part of Cab order to provide data for the boundar	ot Strait, overlapping sou	omprising thern Ne	g approxim wfoundland	ately 7740 and easte	00 1/km over the rn Nova Scotia in
850061 (3526)	NTS: 1 E,K,L,M; 11 F,G,H,I,J,K,O,P  Western Canada Basin Petroleum Resources Assessment	Barclay, JE	ISPG	PG	PR	Man Sask Alta BC
(3320)	Obj: To make an assessment of undiscover NTS: 62; 72; 73; 74; 82; 83; 84; 93; 94	ed oil and gas potential for	Western	Canada Sec	dimentary I	
850062 (3526)	Evaluation of Hydrocarbon Potential of Mackenzie Corridor, Northern Mainland	Hamblin, AP	ISPG	PG	-	Yk
	Obj: To assess the hydrocarbon resource sedimentary basins flanking the Mack				orthwest 1	Territories, in the
850063 (3522)	Service as Foreign Secretary, Canadian Geoscience Council and on other international bodies	Norford, BS	ISPG	P	MaP	-
	Obj: To facilitate and to coordinate coope and foreign non-governmental organi benefits and opportunities of such par	zations. To inform the C				

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.		
850064 (3526)	Evaluation of the Hydrocarbon Potential of the Arctic Islands	Podruski, JA	ISPG	PG	PR	Frank		
	Obj: To assess the hydrocarbon resource potential of the Arctic Islands.							
	NTS: 37-39; 47-49; 57-59; 67-69; 77-79; 87-89; 97-99; 120; 340; 560							
850065 (3567)	East Newfoundland Shelf - Orphan Knoll	Knappers, WA	G	A	CS	Atlantic Offshore		
	Obj: To conduct digitally-recorded high 116,000 1/km for inner area on a conduct. Ltd. and approximately 12,000 1/km	st sharing basis with 5 oi	l compan	ies headed l				
850066 (3526)	Habitat of oil – Basin classification hydrocarbon resources	McMillan, NJ	ISPG	PRAS	-	-		
	Obj: To increase our basic understanding developing broad basin analogues to basin tectonics and other regional pa	use as an inference net f	or unders	tanding res	te hydroca ource disp	arbon evaluation by ersal as related to		
850067*	Southern Cordillera Lithoprobe Transect	Price, RA	DGO	-	-	BC Alta		
(359)	Obj: To develop an improved understanding the southeastern Canadian Cordillera		igin, evol	ution and dy	namics of	the lithosphere, in		
	NTS: <u>82</u>							
850068* (3522)	Geochemical, sedimentological, biological and biostratigraphic changes across the Frasnian-Famennian boundary interval (Upper Devonian)	Norford, BS	ISPG	P	MaP	Alta Mack		
	Obj: To document and assess geochemi boundary interval in Canada and ele develop models to explain such ever explain geochemical anomalies and b	sewhere and to relate the ots and such changes and	ese chang to compa	es to regior re these mo	nal or wor dels with	Idwide events. To others suggested to		
850069* (3541)	Marine gravity investigation of an intrusion in the Gulf of St. Lawrence	Loncarevic, BD	AGC	RR	ОВМ	Que		
	Obj: To undertake marine gravity investiguassist in the interpretation of the data		gravity a	nomaly in t	he vicinity	of Sept-Iles and to		
	NTS: <u>22 J</u>							
850070 (3541)	Regional Geologic and Plate Tectonic History of the Canadian Appalachians	Stockmal, G	AGC	RR	-	-		
	Obj: To reconstruct and place bounds on a of new data (e.g., deep seismic refle							
860001* (3531)	Precambrian Shield of the central Boothia Uplift	Frisch, T	LCS	-	NC	Frank		
	Obj: Geological mapping to 1:250,000 so Somerset Island (between 71° and 72 Uplift and a possible extension of the	8°N). The area includes the	he best e	xposed crys	talline teri	rane of the Boothia		
	NTS: Pts 67 H,G; 57 G; 58 B							
860002*	Central Great Bear magmatic zone	Hildebrand, RS	LCS	-	BS	Mack		
(3531)	Obj: Complete traverse of central Wopm magmatic zone.	nay Orogen and character	ize rocks	and structs	ire of the	central Great Bear		
	NTS: <u>86 F</u>							
860003* (3531)	Geology of the Ashuanipi Granulite Complex in the Schefferville Area	Percival, JA	LCS	-	SG	Que Nfld		
	Obj: 1. Produce 1:250,000 geological mamap sheet. 2. Study metamorphism and structure conditions. 3. Determine ages of rock types, make the conditions of the conditions.	ture of granulites to de	etermine					

NTS: 23 J

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
860004 (3521)	Middle and Upper Devonian stratigraphy in the subsurface of west central Alberta and northeastern British Columbia	Meijer Drees, NC	ISPG	RG	М	Alta BC
	Obj: 1. Establish stratigraphic framework 2. Correlate subsurface and surface 3. Better understanding of deposition 4. Evaluate the potential for hydrogeneous	e geology. onal history, sedimentology		enesis of th	e carbona	tes.
	NTS: 83 M; 93 P; 94 A					
86000 <i>5</i> (3543)	Basin Atlases – Offshore Eastern Canada	Bell, JS	AGC	EPG	-	Atlantic Offshore
	Obj: To generate and compile the geology geology of the offshore provinces of knowledge and provide an access professionals.	of Eastern Canada. These	basin atl	ases are in	itended to	summarize present
860006 (3521)	Structure and tectonics of Prince Patrick and adjacent islands	Harrison, JC	ISPG	RG	AI	Frank
	Obj: 1. Production of 1:250,000 scale ge 2. Structural and Tectonic analysis 3. Assessment of hydrocarbon and s	•				
	NTS: 89; 99					
860007* (3521)	Stratigraphic – Structural analysis of Proterozoic to Devonian rocks, northern Ellesmere and Axel Heiberg Islan	Trettin, HP	ISPG	RG	AI	Frank
	Obj: To improve our knowledge of geolog	ical history and economic	mineral po	tential of t	the region	•
	NTS: 120 C,E,F,G; <u>340 B,C,D</u> ,E,F,G,H; <u>56</u>	<u>60 A,B</u> ,D				
860008*	Metallogeny of Nova Scotia	Sangster, AL	MR	MD	RMS	<u>NS</u>
(3571)	Obj: 1. To determine the relationship be adjacent shelf portions of the Ca 2. To contribute to the descriptive as pertains to mineral exploration	nadian Appalachian Provindata base and to develop	nce. genetic m	odels of mi		
	NTS: 11; 20 O,P; 21 A,B,H					
860009*	Metallogeny of New Brunswick	Watson, GP	MR	MD	RMS	NB Que
(3571)	Obj: 1. To determine the relationshi New Brunswick and adjacent she 2. To contribute to descriptive and exploration and resource evaluate	If portions of the Canadian I genetic models of minera	Appalach	ian Provinc	ces.	
	NTS: 11 E; 21					
860010* (3521)	Baumann Fiord (49C), Vendom Fiord (49D and Strathcona Fiord (49E)	) Thorsteinsson, R	ISPG	RG	AI	Frank
	Obj: To produce 1:250,000 geological mastratigraphic and sedimentological scarbonates to deep-water basinal cl	study of the Upper Ordovi				
	NTS: <u>49 C,D,E</u>					
860011* (3523)	Sedimentology of Cretaceous clastics in the western Canada basin	Leckie, DA	ISPG	PG	PR	Alta
	Obj: To determine the stratigraphy, end Cretaceous of western Canada, in sedimentology will be related to re- and gas pools.	ncluding hydrocarbon rese	ervoirs an	d source b	eds. Th	e resulting detailed
	NTS: 72 E; 82 O; 83 L,M; 93 I					
860012*	Glaciology Section, PCSP	Koerner, RM	TS	QE	G	Frank
(3552)	Obj: This project will record expenditure transferred from PCSP.	res on scientific activition	es carried	out by th	ne glaciolo	ogy section recently

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
860013 <b>*</b> (3567)	Vancouver Island and British Columbia Coast	Knappers, WA	G	Α	CS	ВС
	Obj: To carry out a medium sensitivity Vancouver Island, Queen Charlotty provide digital data and total field	e Strait-Johnstone Strait-S	Strait of Ge	orgia to th	e B.C. sho	
	NTS: 92 B,C,E,F,G,K,L,M					
860014* (3541)	Marine deep seismic reflection studies – offshore E. Canada	Keen, CE	AGC	RR	ОВМ	-
	Obj: To acquire and interpret deep mu Canada and within contiguous ma scientific benefit is to allow a mor extensional basins, margins, craton	rine regions such as the Co e complete understanding c	of the struct	Lawrence a ture at dept	nd Hudson h, and hend	Bay. The major ce the evolution of
860015*	Biogeochemical methodology	Dunn, CE	MR	EG	-	Ont Que BC Sask
(3571)	Obj: 1. Develop, test and publish bioged 2. Study biogeochemical processes 3. Create a biogeochemical data b	•	propriate to	exploration	•	
	NTS: 32 E; 92 H; 73 P; 74 A					
860016* (3551)	Quaternary geology-terrain inventory, northeast Victoria Island and Stefansson Island	Hodgson, DA	TS	QG	-	Frank
	Obj: Describe and explain surficial geol events. The source and age of the					bracketing marine
	NTS: 78 A,C; B(E½)					
860017* (3551)	Quaternary geology of Lake of the Woods area, Ontario	Sharpe, DR	TS	QG	-	Ont
	Obj: To supervise the systematic study map and report on the Quaternary a Federal/Provincial Mineral Devactivity in the mining industry.	geology and drift geochemi	stry of the	region over	a four year	r period as part of
	NTS: <u>52 E,F</u>					
860018* (3571)	Geological research on sediment-hosted base metal deposits	Sangster, DF	MR	MD	MDG	NS Que Ont Yk BC Frank Mack Kee
	Obj: To conduct research on base metal 1. increase the understanding of the distribution of the distributi	he geological distribution a lefinitive deposit-model cha	nd origin of aracteristic	these depos s of these d	sits; eposits;	
	NTS: 11 C; 21 E; 31 C,E; 94 B,F; 105 B;	85 B				
860019* (3571)	Borehole geophysics calibration and standardization	Killeen, PG	MR	EG	BG	Ont NS Alta
	Obj: To obtain quantitative data on the developing calibration facilities, in measurements.					
	NTS: 31 L; 11 D; 82 O					
860020	Quaternary geology, Abitibi area, Quebe	c Veillette, JJ	TS	QG	-	Que
(3551)	Obj: 1. To integrate existing surficial "A" series.	l maps into one coherent	surficial go	eology map	series at	1:1 000 000 scale,
	<ol> <li>To extend mapping initiated in</li> <li>To provide maps and knowledged this information is now serious</li> <li>To complement surficial mapping of buried valleys and others of</li> </ol>	ge of Quaternary geology in ly lacking. ing by geophysical, geoche	in one of th mical and d	ne most act	ive mining rams aimed	camps in Canada.  d at locating zones
	investigation programs done by					

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
860021* (3551)	Surficial mapping in Fort Coulonge area, Quebec	Kettles, I	TS	QG	-	Que
	Obj: To complete a systematic study of and history of the Quaternary sedim composition and provenance, and (b)	ents and their respective la	indforms t	hat will aic	l in (a) inte	osition, age, origin rpretation of drift
	NTS: Pts 31 F					
860022* (3511)	Geoarchitecture of the Fraser River Delta Area — Phase 1	Luthernauer, JL	С	MG	-	ВС
	Obj: Define the framework geology, stra damage of the Fraser River Delta at		, paleo-ge	ography and	d susceptibi	ility of earthquake
	NTS: 92 G					
860023* (3524)	Organic petrology of Canadian oil shale deposits	Kalkreuth, WD	ISPG	CG	СТ	NB NS Ont Man BC Frank Mack Kee Yk
	Obj: To characterize Canadian oil sha materials.	des petrographically to de	etermine 1	maturation	levels and	d type of organic
	NTS: 11 E; 21 H,I					
860024 (3524)	Conversion properties of selected Canadian coals and oil shales in relation to geological age, geological setting and rank and petrographic compos	Kalkreuth, WD	ISPG	CG	СТ	-
	Obj: To determine the susceptibility of conversion processes such as hydrog		ales from	various ge	eological a	ges and setting to
860025* (3567)	Aeromagnetic Gradiometer/VLF EM Contracted Survey – Western Ontario	Ready, EE	G	Α	CS	Ont
	Obj: To carry out aeromagnetic gradion exploration especially in drift-cov Agreement 1985-1990.					
	NTS: Pts 42 E; 52 C,E,F,H					
860026* (3542)	Sedflux: On the transfer of sediment from land to the continental shelf	Syvitski, JPM	AGC	EMG	SG	-
	Obj: 1. To determine the quantity and to during the late Quaternary by second including the formation, preserved including the formation, preserved including the effect (on 1&2) (c) fluctuations in discharge contact the effect of the contact of t	elected rivers in Canada. The and escape processes of the action or destruction of place of: (a) relative sea level fultions; and (d) increased gr	n the sub- er deposit fluctuation ound acce	aerial delta s. ns; (b) tidal lerations th	a and prode or wave co arough seisn	elta environments, ondition variations; nic events.
860027 (3541)	Ocean Drilling Program in the Labrador Sea and Baffin Bay	Srivastava, SP	AGC	RR	EAOG	-
	Obj: To understand the paleocirculation regions a set of holes is planned to as part of Leg 105 of the Ocean D team of scientists on board and after	be drilled in these regions rilling Program. The resul	during the lting cores	months of from thes	September e holes wil	r and October 1985 Il be analysed by a
860028* (3511)	Global Geoscience Transects Project of International Lithosphere Program	Monger, JWH	С	-	-	•
	Obj: To coordinate production of 50-2 different parts of world, scales 1:50	00 continent to ocean tra 00,000 or 1:10 <sup>6</sup> .	insects, or	cross-sec	tions draw	n to the Moho, in
860029 (3523)	Petroleum geology of Tertiary, Mesozoic and Paleozoic north of 68° on the N.W.T. and Yukon mainland and of	Dietrich, JR	ISPG	PG	PR	Mack Yk
	Obj: To provide a reliable and adequate area's hydrocarbon potential and proven and potential hydrocarbon o	to document, via publicat	by the Go ions inclu	eological P ding maps	otential Su and section	bcommittee of the ons as appropriate,
	NTS: 97; 107; 117					

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
860030 (3542)	Computer based geological map compilations – Offshore Eastern Canada	Fader, GB	AGC	EMG	SG	Atlantic Offshore
	Obj: To produce a computer-based series updating older published maps, releasormal maps, and consolidating interpretations.	sing compilation in a more	timely wa	ay, facilitat	ting the fut	ture production of
860031 (3523)	Stratigraphy and sedimentology of the Basal Colorado Sandstone (Cretaceous), Cessford Field, southern Alberta	Banerjee, I	ISPG	PG	PR	Alta
	Obj: i) Define the stratigraphic status of ii) Develop an understanding of the so understanding as a tool for predictin of the sandstones and evaluate the co	edimentary facies represent g continuity and geometry	ted by the	Basal Colo	orado Sand	stone; iii) Use this
	NTS: 82					
860032 (3523)	Petroleum geology and tectonic history of the sweetgrass arch	Podruski, JA	ISPG	PG	PR	Alta Sask
	Obj: To define the location, style, timing Arch region of the Western Canada S		bon accur	mulation of	tectonism	in the Sweetgrass
	NTS: 72 E,F,G,J,K,L,M,N,O; 82 G,H,I,J,O,	P				
860033* (3571)	Geochemical methodologies in glaciated terrains	Coker, WB	MR	EG	GMR	Man Ont
	Obj: 1. To conduct research and development to test and formulate geochemical exploration methodolgoies for utilization in glaciated terrain.  2. To investigate Quaternary stratigraphy, utilizing the geochemical characteristics of the overburden.					
860034*	Georgian Bay Geological Synthesis	Davidson, A	LCS	-	SG	Ont
(3531)	Obj: To establish the origins, relationship studied in the larger context of Gren		ong the s	hore of Ge	orgian Bay	that they may be
	NTS: 41 H, parts of 31 D,E					
860035* (3531)	Geology of the Chapleau and Groundhog River Blocks	Percival, JA	LCS	-	SG	Ont
	Obj: To improve the geological data base zone and region to the west. To dete with adjacent regions. To determine	ermine the history of metan	norphism	and tectoni		
	NTS: <u>42 B</u>					
860036 (3524)	Resource evaluation and geology of coal deposits of western Canada	Wrightson, CB	ISPG	CG	RE	Sask
	Obj: To conduct resource evaluation prog and/or field studies to be undertake and provincial government data on C coals occur. To provide authoritati and industry on the resource poter coalfields in Canada.	n to meet the requirement anada's coal deposits. To s ve advice to senior Depart	s of the i tudy the p mental of	nventory po geological f fficials and	rogram. T ramework to scienti	o acquire industry within which these sts in government
	NTS: 72 G,H					
6.1.1.01	Operation of standard and regional seismograph stations	Halliday, RJ	G	-	S	-
	Obj: To operate the Canadian Seismogration standards for the detection and located the control of the control o					s to international
6.1.1.02	Maintenance of standard and regional stations	Thomas, JT	G	-	S	-
	Obj: To maintain the facilities and instru Network: to ensure that all instrume establish new ones as program needs	entation is calibrated at lea				

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
6.1.1.04	Operation and maintenance of digital telemetry networks	Thomas, JT	G	-	S	-
	Obj: To operate and maintain the local and	d regional digital telemetry	y seismic	systems in	eastern Ca	anada.
6.1.1.05	Field instrumentation maintenance and development	Trigg, DF	G	-	S	-
	Obj: To ensure the availability of appropr and crustal structure experiments by new instrumentation as technology al	maintaining existing equ	entation iipment i	for tempora n fully wor	ary field su king order	urveys of seismicity and by developing
6.1.2.01	Management of standard and regional station data	Halliday, RJ	G	-	S	-
	Obj: To ensure the preservation and disse from these stations and to ensure that				data and i	nformation derived
6.1.2.02	Management of data laboratory and analysis of digital station data	Lyons, JA	G	-	S	-
	Obj: To ensure the preservation and dissensure that its quality is to internation		igital sei	smological	data and	information and to
6.1.2.03	Development of machine-based systems for seismic data analysis	Lyons, JA	G	-	S	-
	Obj: To develop and integrate into the retrieval of digital seismic data.	Data Lab new systems to	o facilita	te the dete	ection, and	alysis, storage, and
6.1.3.01	Determination of Canadian Seismicity	Wetmiller, RJ	G	-	S	-
	Obj: To determine the focal parameters using all available data; and to dissen	and macro-seismic effect ninate this information to	s of Can all users	adian earth in a timely	quakes to manner.	the degree possible
6.1.3.05	Studies of Earthquake Precursory Phenomena	Buchbinder, GGR	G	-	S	-
	Obj: To undertake the seismological expe geophysical phenomena in the Charle of earthquake prediction techniques	evoix zone of the St. Lawre	he Branc ence Vall	h program o ey, as an as	of investig ssessment	ation of precursory of the applicability
6.1.3.08	Seismotectonics and seismic hazard on the eastern and northern continental margin	Adams, JE	G	-	S	-
	Obj: To determine the spatial and tempore eastern Arctic, to relate these to the continental margin, and to assess the development areas.	he structural, geological	and geop	hysical fea	tures of t	he ocean floor and
6.1.3.14	Physics of earthquake sources in eastern and northern Canada	Hasegawa, HS	G	-	S	-
	Obj: To employ results of research on th understanding of the earthquake proc				d northern	Canada to improve
6.1.3.16	The Nahanni, Northwest Territories earthquake sequence	Wetmiller, RJ	G		S	-
	Obj: To analyze all data available for the the extent of the source volume, the the sequence; the macro-seismic estimplications to seismic risk. To disse as possible.	e focal parameters of the parameters of the parameters; the surficial geolo	principal gical eff	shocks; the ects; the se	state of c eismotecto	rustal stress during nic setting and the
6.1.3.17	Seismological studies for Nuclear Fuel Waste Management Program	Wetmiller, RJ	G	-	S	-
	Obj: As part of the EMR-AECL Nuclear northern Ontario to augment the se eventual validation of acceptable site.	eismicity data base and i	nt Progra mprove	am to carr the estimat	y out regi es of seis	onal monitoring of mic hazard for the

Project	<b>7</b> 1.1	Project	ъ.	6 1 5	6	P
Number	Title	Leader	Div.	Subdiv.	Sec.	Prov.
6.1.3.18	Propagation and attenuation of seismic waves; magnitude studies	North, RG	G	-	S	-
	Obj: To improve knowledge of the veloci earthquake locations and the estimati					e the accuracy of
6.1.5.01	Seismological data monitoring and exchange	Trigg, DF	G	-	S	-
	Obj: To develop an improved ability to o seismological consequences.	detect and to identify und	derground	nuclear e	xplosions a	nd to assess their
6.1.5.02	Arms Control Studies	Basham, PW	G	-	S	-
	Obj: To provide advice to the Department of a ban on underground nuclear explo		l matters	pertaining	to seismol	ogical verification
6.1.6.01	Provision of management and administrative support for the Seismology Section	Basham, PW	G	-	S	-
	Obj: To provide overall management and Chief of the Section.	administrative support to	the Seism	nology Sect	ion through	h the office of the
6.3.1.01	Operation of Geomagnetic Observatories	Jansen Van Beek, G	G	-	GMag	-
	Obj: To operate the Canadian Geomagnetic training of personnel and provision of	c Observatory Network, ir standards, calibration and	ncluding r quality co	negotiation ontrol.	and superv	ision of contracts,
6.3.1.02	Surveys for secular variation and special charts	Newitt, LR	G	-	GMag	-
	Obj: To conduct surveys of the geomagne secular variation information.	etic field over Canada in	order to	provide up-	to-date ma	agnetic charts and
6.3.1.03	Development and maintenance of instrumentation for observatories and surveys	Thomas, JT	G	-	GMag	-
	Obj: To develop new and improved instru variation stations, and to calibrate, se	ments for the Canadian G ervice and repair the existi	eomagnet ng equipn	tic Observa nent.	tory Netwo	ork and temporary
6.3.2.01	Geomagnetic observatory data	Jansen van Beek, G	G	-	GMag	-
	Obj: To maintain, update and disseminate accuracy and reliability.	e geomagnetic observatory	data and	d to monito	or quality o	of output including
6.3.2.02	Geomagnetic survey data	Newitt, LR	G	-	GMag	-
	Obj: To maintain, update and disseminate geomagnetic field over Canada.	e magnetic charts, refere	nce field	s, magnetic	c models, a	and reports on the
6.3.2.05	Development and maintenance of data laboratory hardware and software	Vishnubhatla, SS	G	-	GMag	-
	Obj: To design, develop, maintain, repair processing and editing digital geomag	r and update laboratory netic data.	facilities	, including	software	, for transcribing,
6.3.3.01	Prediction of geomagnetic disturbances	Coles, RL	G	-	GMag	-
	Obj: By analyzing time-varying magnetic interplanetary magnetic fields, to d substorms.	fields, solar activity, mag levelop improved methods	netospher for the	ric and iono prediction	ospheric ele of geoma	ectrodynamics, and gnetic storms and
6.3.3.02	Provision of geomagnetic activity forecasts and information	Hruska, Ĵ	G	-	GMag	-

Obj: To provide short- and long-term forecasts of geomagnetic activity throughout Canada, and to disseminate information on the variation of the earth's magnetic field.

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
6.3.3.03	Secular variation and main geomagnetic field studies	Haines, GV	G	-	GMag	-
	Obj: To study the behavior of the ma representations of the field; and to			variation;	to devel	op and test model
6.3.4.11	Development and maintenance of instrumentation for earth structure studies	Trigg, DF	G	-	GMag	-
	Obj: To design, develop, construct, test and laboratory facilities for geoma			ate, by cont	ract or in	-house instruments
6.4.1.02	Gravity mapping of Arctic Island Channels	Halliday, DW	G	-	Grav	-
	Obj: To complete the regional gravity Shelf Project (PCSP) and the Cana the Arctic Islands by 2005.	mapping of the Arctic inter- dian Hydrographic Service (C	island in CHS) and	cooperation to complete	with the regional	Polar Continental gravity mapping of
6.4.1.06	Systems development and instrument maintenance	Goodacre, AK	G	-	Grav	-
	Obj: To provide systems engineering, ir and upgrade all field instruments, caccuracy.					
6.4.1.13	Gravity mapping of Eastern Canada	Cooper, RV	G	-	Grav	-
	Obj: To complete the regional gravity m	apping of Eastern Canada an	d the adjo	oining offsho	re areas.	
6.4.1.15	Augmented Gravity Mapping Program (DND-DMA)	Boyd, B	G	-	Grav	-
	Obj: To observe additional gravity station	ons in selected areas of Cana	da where	present cov	erage is sp	parse or absent.
6.4.1.16	Localized gravity surveys	Halliday, DW	G	_	Grav	-
	Obj: To intensify regional gravity mapp geological targets.	• •	al covera	ge with pro	files, as r	equired, over local
6.4.1.17	Canadian absolute gravity service	Liard, JO	G	_	Grav	_
	Obj: a) to provide, with high Internation present and future requirements measurements for standards labeled studies and for measurements to maintain state-of-the-art eabsolute gravity measurements.	s for datum control of the Ca aboratories, as a contribution ent of temporal variations of expertise and capability in	nadian G n to inte the Earth	ravity Stand rnational e: 's gravity fi	ardizatior xperiment eld.	Net, as reference s in global gravity
6.4.2.01	Gravity and crustal motion data base	Hearty, DB	G	-	Grav	-
	Obj: To provide data storage, retrieve government research programs, the public.					
6.4.2.02	Gravity standards including the Canadian Gravity Standardization Net	McConnell, RK	G	-	Grav	-
	Obj: To develop gravity reference and maintain, update and extend the collaborate with agencies outside (	e Canadian Gravity Standar	dization	Net (CGSI	180); to	advise, assist and
6.4.2.03	Mathematical methods and systems	Buck, RJ	G	-	Grav	-
	Obj: To develop computer methods, tecand related data.	hniques and systems required	for the	reduction, e	diting and	analysis of gravity
6.4.3.06	Impact processes and evolution of the Earth's Crust	Grieve, R	G	-	Grav	-
	Obj: To investigate meteorite impact parameters of circular structures a	of impact melting, natural a	and exper	imental sho	tribution ock deform	to the evolution of nation, geophysical

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.
6.4.3.07	Rock properties contribution to Nuclear Fuel Waste Management Program	Robertson, PB	G	-	Grav	-
	Obj: To study the physical, rock-crack ar research areas as part of the concept	nd fabric properties of rock assessment phase of the N	and dril	l-core samp gram.	oles obtaine	ed from designated
6.4.3.14	Crustal genesis and evolution studies	Grieve, R	G	-	Grav	-
	Obj: To utilize large-scale and digital generated genesis and evolution.	ophysical, space-derived ar	nd other	databases to	o address g	general problems in
6.4.3.15	Gravitational field modelling, analysis and interpretation techniques	Nagy, D	G	-	Grav	-
	Obj: To develop mathematical technique gravitational field from surface and a		for mode	lling, analy	rsis and int	terpretation of the
6.4.4.01	Management and coordination of Geophysical Activity	Gibb, RA	G	-	Grav	-
	Obj: To manage and coordinate geophysiconcept assessment phase of the Nuc				ignated are	eas as part of the
6.4.4.02	Coordination of Geophysical Data Base	Gibb, RA	G	-	Grav	-
	Obj: To coordinate the development and part of the concept assessment and s	utilization of a data base ite selection phases of the	for geopl Nuclear I	nysical and Fuel Waste	related stu Manageme	udies carried out as nt Program.
6.4.5.02	Coordination of all CESAR scientific results	Weber, JR	G	-	Grav	-
	Obj: To coordinate CESAR scientific resu	lts and evaluate bathymetr	ic and gr	avity result	S.	
6.4.6.01	Provision of management and administrative support for the Gravity and Geodynamics Subdivision	Gibb, RA	G	-	Grav	-
	Obj: To provide overall management and the office of the Chief of the Subdiv.		the Grav	ity and Geo	odynamics	Subdivision through
6.5.1.01	Geodynamic observatories and data base	Popelar, J.	G	-	G	-
	Obj: To ensure availability, preservation stability of primary reference points			the earth's	s rotationa	d dynamics and the
6.5.1.02	Data analysis and development of new techniques	Popelar, J	G	-	G	-
	Obj: To assemble, evaluate and compare polar motion to improve data reductions for geophysics, pre-	ction models, reference st	andards a	and observa	tion techn	earth's rotation and iiques and to study
6.5.1.04	Mathematical methodology and applications for satellite global positioning and navigation	Kouba, J	G	-	G	-
	Obj: Develop mathematical methods and optimize their applications in geophy		orld wide	satellite p	ositioning	and navigation and
6.5.2.01	Relationship of tilt, strain and gravity variations to seismicity at Charlevoix, Quebec	Lambert, A	G	-	G	-
	Obj: To measure and interpret tilt, strail leading to earthquake rupture in the		part of a	multi-para	ameter stu	dy of the processes
6.5.2.05	Aquifer-tide studies for Nuclear Fuel Waste Management Program	Bower, DR	G	-	G	-
	Obj: In cooperation with AECL staff, measurements at selected sites in te	to interpret tidal and erms of hydrogeological, roo	baromet ck-mass,	ric variati fracture an	ons in bo d geophysi	rehole piezometric cal parameters.

Project Number	Title	Project Leader	Div.	Subdiv.	Sec.	Prov.	
6.5.2.07	Determination of regional and large scale deformations in Canada	Lambert, A	G	-	G	-	

Obj: To introduce new measurement techniques (VLBI, GPS, Absolute Gravity) as they become available in addition to traditional geodetic methods to monitor, analyze, and interpret contemporary crustal deformation over broad areas. Prepare for monitoring deformations of the North American Plate by long baseline and gravimetric techniques with the purpose of understanding the impact of crustal deformations on local phenomena of a hazardous nature.

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680093	850001*	850067*	810003*	810008	790025
690075*	850048*	850068*	810013	810043*	790034*
	850061	860004	810043*	820005*	800005
700047*					
700059*	850067*	860011*	820006	820006	800013
710022*	860004	860019*	820010*	820010*	800018*
710091*	860013*	860031	820021*	820021*	800019
720098	860015*	860032	820052*	830009*	800020*
730035	860018*		830014*	830018*	800023
730067*	860022*	Saskatchewan	830058	830025*	800027
	800022	Saska terie wari			
740062		4.000064	840018*	830026*	800030*
740081*	Alberta	400006*	840020	830058*	810003*
740091*		650027*	840030	840018*	810038
740098*	400006*	680093	840031	840020	810042*
740107*	500029	720071*	840042	840023*	820005*
750035*	610019*	740017	840050*	840028	820010*
	610269	740091*		840030	830009*
750069*			840065*		
750076 <b>*</b>	650023	750010*	850011*	840031	830018*
750088*	650027*	750069*	850025*	840050*	830026*
750108*	670576*	750098 <b>*</b>	850047*	840051*	830050
760042*	680093	760047 <sup>-</sup>	850050	840087*	830054
760062*	700034	770053	850052*	850009*	840003*
770001*	710022*	770055*	850058*	850013	840016*
770006*	710091*	780003	850061	850014*	840020
770016*	720098	780015*	860023*	850047*	840021
770020	750069*	780047	860033*	850052*	840031
770024*	750076*	790013		850058	840032*
770031	750088*	800007*	Ontario	860015*	840035*
770071*	760042*	800018*		860017*	840050*
	760056	810003*	4000006*		
780003			400006*	860018*	840051*
780006*	760062*	810013	570029*	860019*	840052*
780015*	770048*	810014*	590457	860023*	840053*
780028	770051	810038	640048	860025*	840054
780039*	770053	820010*	650056*	860033*	840057*
790003*	780003	820033	680023*	860034*	840059*
	780005	820052*	680023*	860035*	840069
790006*	7 80000 "	02007L	000001~	800077"	070007

840070	800023	730043	650056*	860009*	830055*
850003*	810003*	730044*	680102*	860023*	830056*
850007*	810038	740017	680109		830057*
850009*	810048	740072*	690064*	P.E.I.	840015
850015	820021*	740091*	690095*		840017
850051*	820046*	750010*	700056*	680102*	840036
850052*	830058*	750011	700059*	680109	840038
850059	840018*	750043*	710061	710061	840061
850069*	840020	750069*	720071*	810038	850021*
860003*	840028	760014	720072	820046*	850057
860009*	840031	760058*	730043	840039*	850065
860015*	840039*	770024*	730044*		860005
860018*	840045*	770063*	740084*	Atlantic	860030
860020	840051*	770077*	740091*	Offshore	
860021*	840058	780016*	750010*		Arctic
	840059*	780025	750043*	710059*	Offshore
Nova Scotia	840062	790025	750061*	710065	
	840064	800023	760014	720103*	650007*
500029	840072*	810003*	770071*	720104	700092*
650056*	850007*	810036*	770077*	730072*	760015
680102*	850016*	810038	780022	730081	790036*
680109	850052*	820010*	780024*	740003	800034
690064*	850060	820020	780047	760054	810041
690095*	860008*	820021*	800023	780042	820023
700056*	860018*	820039*	800027	790018	820050*
700059*	860019*	840020	810038	790019	830002
710061	860023*	840024*	820046*	790036*	830045
720071*		840059*	840020	800034	840061
720072	Newfoundland	840060	840028	800035*	840063
730043		840073*	840031	800036*	840085*
730044*	500029	850007*	840039*	810031	840086*
740084*	570029*	850015	840050*	810032	
750010*	650056*	850017*	840051*	810033	Pacific
750043*	680102*	850047*	840059*	810034*	Offshore
760014	680109	850054	840066	810037*	
770024*	690064*	850060	840071*	810041	500029
770071*	690065	860003*	850007*	810047*	800010
770077*	690095*		850018*	820003	810041
780022	700059*	New Brunswick	850019*	820041	820051*
790027	710061		850024*	820044*	830041*
800015	720071*	500029	850047*	830002	840033*
800018*	720072	570029*	850053	830045	

#### **ADDENDUM**

Cordilleran and Pacific Margin Geoscience Division Pacific Geoscience Subdivision

Project Number: 6.1.1.03

Leader: Bone, M.N.

Title: Maintenance and operation of Western Canada Seismograph Network

**Objective:** To maintain and operate the regional, digital and strong motion networks

of the Canadian Seismograph Network to international standards for the detection, location and analysis of earthquakes above a magnitude 2 in the Strait of Georgia/Vancouver Island region and above magnitude 3

along the coast and in the interior region of British Columbia.

Project Number: 6.1.1.06

Leader: Bone, M.N.

Title: Operation of PGC Laboratories and Common Technical Support

Objective: To provide technical support for all EPB field and laboratory

experiments and observatory operations at PGC.

Project Number: 6.1.3.09

Leader: Horner, R.B.

Title: Determination of Cordilleran Seismicity

Objective: To determine the focal parameters and macroseismic effects of

earthquakes in Western Canada, adjacent waters and territories to the degree possible using all available data; and to disseminate this information in a timely manner to all users including input to the

Canadian national earthquake data files.

Project Number: 6.1.3.12

Leader: Weichert, D.H.

Title: Seismic Risk Assessment and Engineering Seismology Studies in Western

Canada

Objective: To undertake studies and develop methods for the delineation and

evaluation of seismic risk in Western Canada; to provide input toward the next version of the seismic zoning maps of Canada and to provide

services related to risk assessment in Western Canada.

Project Number: 6.1.3.15

Leader: Rogers, G.C.

Title: Seismotectonics of western Canada

Objective: To investigate the refine seismotectonic models for the western

Canadian margin, as required for understanding the current tectonic

processes in the region and for seismic risk analysis.

Project Number: 6.1.4.05 Leader: Rohr, K.

Title: The Structure of the Earth in Western Canada

Objective: To determine the structure of the earth across the western continental

margin including the oceanic ridge and transform fault systems, and the

subducting zones beneath the margin and the Canadian Cordillera.

Project Number: 6.1.4.08

Leader: Davies, E.E.

Title: Geophysical studies of the seafloor off western Canada

Objective: To study the seafloor-spreading ridge system off western Canada to

provide the fundamental data base for the assessment of ridge-derived

polymetallic sulphides.

Project Number: 6.1.4.09

Leader: Hyndman, R.D.

Title: Geoscience programs in western Canada

Objective: To organize, coordinate and undertake geoscience studies in western

Canada and offshore, particularly related to large multidisciplinary programs such as the Ocean Drilling Program, Lithoprobe and Juan de

Fuca Ridge.

Project Number: 6.2.2.11 Leader: Lewis, T.

Title: Detailed studies of heat flow and temperature distribution in western

Canada

Objective: To measure and interpret heat flux and to measure and interpret

radioactive heat generation in rock samples in order to improve our

knowledge of tectonic processes in western Canada.

Project Number: 6.3.4.16
Leader: Law, L.K

Title: Electromagnetic Soundings of Specific Onshore and Offshore Regions in

Western Canada

Objective: To determine the electrical conductivity distribution beneath specific

regions in western Canada, both onshore and offshore, related to geothermal energy resources, offshore ridge hydrothermal system and related minerals, deep crustal structure and tectonic reconstructions.

Project Number: 6.3.4.17 Leader: Irving, E.

Title: Paleomagnetic studies in western Canada

Objective: To determine the paleomagnetic polar wander path for the Western

Cordillera relative to the continent by establishing time stratigraphic

marker horizons.

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Project Number: 6.4.1.12

Leader: Seemann, D.A.

Title: Gravity Mapping of Canadian Cordillera and Pacific offshore

Objective: To complete the regional reconnaissance gravity mapping of western

Canada.

Project Number: 6.4.3.09

Leader: Sweeney, J.

Title: Cordilleran Structure and Tectonic Evolution

Objective: By means of geophysical data, including measurements of the earth's

gravity field, to extend the understanding of regional structure and tectonic evolution of the Cordilleran Structural Province into the subsurface, and to gain an understanding of the ties between Cordilleran

and Arctic tectonic events during the Phanerozoic.

Project Number: 6.4.3.11

Leader: Chapman, D.

Title: Geophysical studies of the Canadian Cordillera and Pacific offshore

Objective: Using gravity and other geophysical and geological information, to

extend the understanding of the tectonics of southern British Columbia and its continental shelf region through the application of plate tectonics

processes, structures and history.

Project Number: 6.5.2.08

Leader: Dragert, H.

Title: Determination of Crustal Strain in Western Canada using Long-Baseline

Geodetic Techniques

Objective: To utilize new geodetic measurement techniques (VLBI, GPS, absolute

gravity) to determine contemporary deformation over scale lengths ranging to thousands of kilometres by concentrating on the development of survey procedures and the establishment of networks suitable for

precise strain measurements within the western Canada landmass.

Project Number: 6.5.2.10

Leader: Dragert, H.

Title: Monitoring of contemporary crustal deformation in western Canada

Objective: To measure regional secular deformation effects in the active seismic

zones of southwest British Columbia, and interpret in terms of tectonic deformation models and in terms of major earthquake cycles. This work is to facilitate understanding of the contemporary west coast tectonics

and the evaluation of the regional earthquake hazard.

# Institute of Sedimentary and Petroleum Geology

Project Number: 6.2.2.12

Leader: Jessop, A.M.

Title: Heat-flow mechanisms and processes

Objective: To identify and understand the mechanisms and processes by which heat

moves through the earth's crust, particularly in relation to the evolution of sedimentary basins and the maturation of the contained hydrocarbons.

Project Number: 6.1.4.06

Leader: Green, A.G.

Title: Seismological Studies of Crustal Structure of Key Geological Features by

Contract

Objective: To determine the crustal structure of key geological features by

conducting seismological surveys in cooperation with university and/or

industrial groups.

Project Number: 6.1.4.07

Leader: Green, A.G.

Title: In-house Seismological Studies of the Earth with Emphasis on the Crustal

and Upper Mantle Structure of Key Geological Features

Objective: To determine whole Earth structure with emphasis on the lithospheric

structure beneath key geological features by conducting seismological surveys, by studying earthquake-generated body and surface waves, by interpreting existing multi-disciplinary data sets and by developing new

computer-based interpretational techniques whenever necessary.

Project Number: 6.2.2.13

Leader: Drury, M.J.

Title: Regional heat-flow studies

Objective: To acquire and analyse data on terrestrial heat flow in Canada, with the

exception of the Cordillera, and to interpret those data interms of crustal structure, tectonic development and potential economic

significance.

Project Number: 6.3.4.02

Leader: Roy, J.L.

Title: Paleomagnetic Investigations of Paleozoic Rock Units from Eastern

Canada

Objective: To determine the paleomagnetic apparent polar wander path for the

Northern Appalachians relative to that of the continent in order to

elucidate the tectonic history of the Atlantic seaboard.

Project Number: 6.3.4.04

Leader: Park, J.K.

Title: Paleomagnetic Investigations of Precambrian Rock Sequences of

Selected Areas or Time Intervals

Objective: To determine segments of the paleomagnetic apparent polar wander path

for the Slave, Grenville and Churchill Provinces in order to investigate

the tectonic history of the Canadian Shield.

Project Number: 6.3.4.12

Leader: Lapointe, P.L.

Title: Magnetic Studies for the Nuclear Fuel Waste Management Program

**Objective:** To conduct rock magnetic surface sampling surveys at research areas for

investigation of magnetization distribution; to conduct magnetic susceptibility logging and anisotropy measurements on deep drill core for

investigation of structure and fabric.

Project Number: 6.3.4.13

Leader: Lapointe, P.L.

Title: Paleomagnetism of the Canadian Arctic Archipelago

Objective: To investigate by paleomagnetic methods the tectonic development of

the northern edge of the North American craton.

Project Number: 6.3.4.15

Leader: Kurtz, R.D.

Title: Electromagnetic Studies of Crustal Structure in Eastern and Central

Canada and the Canadian Arctic

Objective: To investigate deep crustal structure and electrical rock properties in

key target areas in eastern and central Canada and in the Canadian

Arctic.

Project Number: 6.4.3.08

Leader: Sobczak, L.W.

Title: Gravity Studies of the Structure of continental and oceanic crust, Arctic

Canada

**Objective:** To investigate the crustal structure and plate tectonic evolution of the

Arctic Islands and Arctic Ocean basin.

Project Number: 6.4.3.12

**Leader:** Feininger, T.

Title: Gravity Studies of Structure and origin of igneous intrusions

Objective: By means of geophysical and geological technique to study the structure

and origin of igneous intrusions, and to examine their role in the

evolution of the continental coast.

Project Number: 6.4.3.13

Leader: Thomas, M.D.

Title: Gravity Studies Structure and tectonics of orogenic belts

Objective: To improve knowledge of the three-dimensional structure and evolution

of Canadian orogenic belts thereby providing improved regional

frameworks for economic exploitation.

Terrain Sciences Division Permafrost Research

Project Number: 6.2.2.06

Leader: Allen, V.S.

Title: Laboratory measurements and field support

Objective: To ensure the availability of equipment and laboratory services to

support heat-flow and permafrost projects, by the provision of necessary field and laboratory equipment, the development of new equipment and

the contracting out of services where necessary.

Project Number: 6.2.2.14

Leader: Judge, A.S.

Title: Phase changes and permafrost

Objective: To acquire data on and analyse the observed thermal characteristics of

permafrost and the phenomena dependent on the phase-change properties of water; to interpret thermal data from frozen ground and freezing/thawing boundaries in terms of physical responses to climatic and geomorphological stimuli; to examine the value of various geophysical techniques in revealing the physical characteristics of frozen

ground.

Project Number: 6.2.5.01

Leader: Judge, A.S.

Title: Moisture migration phenomena in frozen soils

Objective: Through contract research to develop an improved understanding of the

nature of and factors governing the moisture content of frozen soils and its mobility, for the improved design of major civil engineering works

such as pipelines.

Project Number: 6.2.5.03

Leader: Taylor, A.E.

Title: Offshore permafrost beneath the Beaufort Sea

Objective: To conduct problem-oriented research to improve the present knowledge

of the occurrence and structure of sub-sea permafrost in the Beaufort

Sea, an area of high hydrocarbon potential.

Project Number: 6.2.5.04

Leader: Judge, A.S.

Title: Gas Hydrates

Objective: To improve understanding of the distribution and nature of gas hydrates

sufficient to predict or determine their presence, assess their risk to drilling and production and examine their role in long-term gas

resources.

Project Number: 6.2.5.05

Leader: Pilon, P.A.

Title: Characterization of regional permafrost distribution

Objective: To conduct long-term reearch on permafrost and natural and artificial

disturbance in typical northern locations; to evaluate new tools to determine the properties of permafrost; and to provide needed input parameters for experiments in the national cold temperature research

facility.

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