

CANADA  
DEPARTMENT OF ENERGY, MINES AND RESOURCES

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GEOLOGICAL SURVEY OF CANADA

CATALOGUE OF SCIENTIFIC PROJECTS  
1979 - 1980

Compiled by M.A. Petre



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OTTAWA  
1979

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## PREFACE

This catalogue of all scientific projects of the Geological Survey of Canada approved as of December 1979 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, 1979 to 31 March, 1980, and 2) the field program for the summer of 1979.

As a catalogue it lists and briefly describes active scientific projects. These total 450 and are compiled from instructions issued to project leaders for 1979-1980 via forms GSC 227, 228 and 229. Thus it comprises the current authority on such matters as project numbers, titles and objectives and supersedes previous catalogues and documents concerning scientific projects. Projects are listed in numerical order and an index by project leader and by province is provided at the end.

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

The field program for the summer of 1979 comprises the field component of those active projects marked by an asterisk after the project number. These total 203. No distinction has been made between a minor field component, such as a few days, and a major component requiring the entire field season.

John E. Brindle  
Chief Program Officer

Ottawa  
1979

DEPARTMENT OF ENERGY, MINES AND RESOURCES  
PROGRAM ACTIVITY STRUCTURE

1. ADMINISTRATION PROGRAM

ACTIVITIES

SUB-ACTIVITIES

- |                                |   |
|--------------------------------|---|
| 1. Executive                   | 1.1 Minister's Office<br>1.2 Deputy Minister's Office<br>1.3 Corporate Planning and Evaluation<br>1.4 Department Secretariat  |
| 2. Common and Special Services | 2.1 Personnel Management<br>2.2 Official Languages Implementation<br>2.3 Financial Management<br>2.4 Computer Science Services<br>2.5 Information Services<br>2.6 Administrative Services<br>2.7 Technical Field Support Services |

2. EARTH SCIENCE SERVICES PROGRAM

- |                          |  |
|--------------------------|--|
| 1. Geodetic Service      | 1.1 Geodetic Control Systems<br>1.2 Geodetic Data<br>1.3 Support Services  |
| 2. Topographic Service   | 2.1 New Topographic Mapping<br>2.2 Revision Mapping<br>2.3 Aerial Survey Data Base<br>2.4 National Topographic Data Bank<br>2.5 Support Services   |
| 3. Land Boundary Service | 3.1 The Canadian Lands Surveys Act Administration<br>3.2 The International Boundary Commission<br>3.3 Territorial and Provincial Boundary Commission<br>3.4 Support Services   |
| 4. Geological Service    | 4.1 Geoscience Surveys<br>.1 Reconnaissance Bedrock Surveys<br>.2 Standard Bedrock Surveys<br>.3 Standard Surficial Surveys<br>.4 Offshore Bedrock Surveys<br>.5 Offshore Surficial Surveys<br>.6 Aeromagnetic Surveys<br>.7 Marine Multiparameter Geophysical<br>4.2 Regional Analyses and Syntheses<br>.1 Litho-Tectonic Studies<br>.2 Surficial Studies<br>.3 Regional Compilations<br>4.3 Standards and Correlations<br>.1 Paleontology<br>.2 Radiometric Dating<br>.3 Quaternary Geochronology<br>.4 Paleomagnetic Correlations<br>.5 Physical, Chemical, Mechanical & Engineering Properties of Geological Materials<br>.6 Petrology |

- 4.4 Sedimentary and Geomorphic Processes
- 4.5 Environmental and Engineering Geology
  - .1 Environment Geology
  - .2 Urban Geology
  - .3 Engineering Geology
- 4.6 Identification of Resources
  - .1 Oil & Gas Resources
  - .2 Coal & Peat Resources
  - .3 Radioactive Mineral Resources
  - .4 Geothermal Resources
  - .5 Metallic Mineral Resources
  - .6 Industrial & Construction Minerals Resources
- 4.8 Support Services
- 5. Earth Physics Service
  - 5.1 Seismological Service
  - 5.2 Geothermal Service
  - 5.3 Geomagnetic Service
  - 5.4 Gravity Service
  - 5.5 Geodynamic Service
  - 5.6 Support Services
- 6. Remote Sensing Service
  - 6.1 Applications Development
  - 6.2 Data Acquisition, Processing and Dissemination
  - 6.3 Applied Research
  - 6.4 Scientific and Technical Support
  - 6.5 Management and Administration
- 7. Geographic Service
  - 7.1 National Geographic Mapping
  - 7.2 Toponymy
  - 7.3 Map Distribution
  - 7.4 National Air Photo Library
  - 7.5 Support Services
- 8. Polar Continental Shelf
  - 8.1 Logistics
  - 8.2 Glacier and Sea Ice Physics
  - 8.3 Scientific and Technical Cooperation
  - 8.4 Support Services
- 9. Support to Other Agencies
  - 9.1 Aeronautical Charting
  - 9.2 Property Surveys
  - 9.3 Mapping Support
  - 9.4 ICAS Secretariat
  - 9.5 Cartographic Support
  - 9.6 GSC Support – Other Programs
  - 9.7 Support Services
- 3. ENERGY PROGRAM
  - 1. Energy Sources; Supply, Demand and Substitution
    - 1.1 Oil and Gas
    - 1.2 Coal and Peat
    - 1.3 Radioactive Minerals
    - 1.4 Electrical Energy
    - 1.5 Renewable Resources
    - 1.6 Support Services

2. Energy Conservation	2.1 Energy Industries
	2.2 Transportation Sector
	2.3 Domestic Farm Sectors
	2.4 Commercial Sectors
	2.5 Industrial Sectors
	2.6 Support Services
3. Energy Research and Technology Development	3.1 Coordination
	3.2 Conservation Technology
	3.3 Oil and Gas
	3.4 Coal and Peat
	3.5 Nuclear Energy
	3.6 Electricity
	3.7 Renewable Resources
	3.8 Energy Transportation
	3.9 Support Services
4. Economic and Social Impact – ENERGY	4.1 Regional and Social Impact
	4.2 Environmental Studies
	4.3 Economic Growth and Development
	4.4 Policy Analysis and Systems Planning
	4.5 Support Services
5. Oil Import Compensation	5.1 Compensation Payments
	5.2 Support Services
4. <u>MINERALS PROGRAM</u>	
1. Mineral Resource Determination	1.1 Identification of Resource Base
	1.2 Estimation of Resources
	1.3 Technical Evaluation
	1.4 Support Services
2. Mineral Supply, Use and Conservation	2.1 Economic Evaluation
	2.1 Exploration
	2.3 Development and Mining
	2.4 Processing
	2.5 Transportation
	2.6 Utilization
	2.7 Trade
	2.8 Conservation
	2.9 Support Services
3. Mineral Technology Development	3.1 Discovery of Mineral Resources
	3.2 Development and Mining
	3.3 Processing
	3.4 Utilization
	3.5 Conservation
	3.6 Environment, Health and Safety
	3.7 Transportation
	3.8 Support Services



4. Economic and Social  
Impact-Minerals

- 4.1 Social Impact
- 4.2 Economic Development
- 4.3 Policy Analysis and Coordination
- 4.4 Support Services

5. Administration of the Canada  
Explosives Act

- 5.1 Authorization and Testing
- 5.2 Licensing and Inspection
- 5.3 Support Services

## LIST OF ABBREVIATIONS USED

### DIRECTOR GENERAL'S OFFICE – DGO

DMS – Date Management Systems Group  
SP – 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

EMG – Environmental Marine Geology Subdivision  
CGD – -Coastal Geodynamics  
G – -Geomorphology  
IGC – -Inorganic Geochemistry  
MA – -Methods & Analysis  
OGC – -Organic Geochemistry  
PEc – -Paleoecology  
SD – -Sediment Dynamics

RR – Regional Reconnaissance Subdivision  
EAOG – -Eastern Arctic Offshore Geology  
GPS – -Geophysical Surveys  
LSS – -Labrador Sea Studies  
OBM – -Ocean Basins and Margins  
SBG – -Surficial and Bedrock Geology

PS – Program Support  
-Systems Development

### CENTRAL LABORATORIES AND ADMINISTRATIVE SERVICES – CLAS

M – Mineralogy  
AC – Analytical Chemistry

### INSTITUTE OF SEDIMENTARY AND PETROLEUM GEOLOGY – ISPG

CG – Coal Geology Subdivision  
CG – -Coal Geology  
CT – -Coal Technology  
RE – -Resource Evaluation

E – Energy Subdivision  
GC – -Geochemistry  
PR – -Petroleum Resources  
RM – -Resource Methodology

- P — Paleontology Subdivision
  - MaP - Macropaleontology
  - MiP - Micropaleontology
  - OP - Ottawa Paleontology
  
- RG — Regional Geology Subdivision
  - AI - Arctic Islands
  - CTS - Curation and Technical Services
  - M - Mainland
  - SM - Sverdrup-Mackenzie

REGIONAL AND ECONOMIC GEOLOGY DIVISION — REG

- CPM — Cordillera and Pacific Margin Subdivision
  - MG - Marine Geology
  - GR - Geological Research
  - MiP - Micropaleontology
  - B - Bedrock Studies
  - S - Surficial Studies
  
- CS — Correlation and Standards Subdivision
  - A - Appalachian
  - EP - Eastern Paleontology
  - G - Geochronology
  - PET - Petrology
  
- EG — Economic Geology Subdivision
  - GM - Geomathematics
  - MDB - Mineral Data Bank
  - MDG - Mineral Deposits Geology
  - URE - Uranium Resources Evaluation
  - SP - Special Projects
  
- P — Precambrian Subdivision
  - BS - Bear-Slave
  - NC - Northern Churchill
  - PMag - Paleomagnetic
  - SG - Superior-Grenville
  - SP - Special Projects

RESOURCE GEOPHYSICS AND GEOCHEMISTRY — RGG

- RG — Regional Geophysics Subdivision
  - AI - Aeromagnetic Interpretation
  - CAS - Contract Aeromagnetic Surveys
  - EAO - Experimental Airborne Operations
  - GDP - Geophysical Data Processing
  - MM - Magnetic Methods
  
- RGC — Resource (Geochemistry) Subdivision
  - MD - Method Development
  - RS - Regional Surveys

RR — Resource (Radioactivity) Subdivision  
ADI —Airborne Data Interpretation  
ANI —Analytical & Nuclear Instrumentation  
EAO —Experimental Airborne Operations  
LO —Laboratory Operations  
RM —Radiation Methods  
RSA —Remote Sensing Operations  
TS —Theoretical Studies  
UPCS —Uranium Program Contract Surveys

TG — Terrain Geophysics Subdivision  
EM —Electrical Methods  
SM —Seismic Methods

#### TERRAIN SCIENCES DIVISION — TS

EG — Engineering Geology  
GP — Geomorphic Processes  
PG — Paleocology and Geochronology  
RP — Regional Projects  
SMT — Sedimentology and Mineral Tracing

GEOLOGICAL SURVEY OF CANADA  
ORGANIZATION

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Resource Geochemistry Subdivision, E.M. Cameron, (995-4521)  
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Terrain Sciences Division, Director – J.S. Scott, (995-4938)

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Geomorphic Processes Section, J.A. Heginbottom, (993-6083)  
Paleoecology and Geochronology Section, W. Blake, (995-4583)  
Regional Projects Section, R.J. Fulton, (993-6094)  
Sedimentary and Mineral Tracing Section, W.W. Shilts, (995-4523)

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
380077	Analysis of rocks and minerals Obj: To provide compositional data on geological materials as a contribution to the solution of geological problems.	Abbey, S	CLAS	-	AC	-	-	2435
400006*	Preparation of collections of Canadian rocks and minerals for distribution to the public Obj: To make available for distribution to educational institutions and the Canadian public representative collections of Canadian rocks and minerals that will assist prospectors and promote interest in the mineral industry.	Larose, JM	CLAS	-	M	NS, NB NFld Ont Que	-	248
480191	Monograph of the Canadian <u>Buchia</u> (= <u>Aucella</u> ) Obj: To describe and to illustrate all hitherto known Canadian representatives of this biochronologically important genus and to clarify the zonal value of its species.	Jeletzky, JA	ISPG	P	OP	-	-	2431
490001	Mesozoic and Tertiary rocks of the west coast of Vancouver Island in Quatsino Sound Obj: A stratigraphical-paleontological study of the Mesozoic and Tertiary rocks of the area. Special attention is to be paid to the biochronological dating of volcanic units, the stratigraphy and paleontology of the Jurassic-Cretaceous contact, and the potential of Tertiary strata with respect to oil and gas.	Jeletzky, JA	ISPG	P	OP	BC	92 E, F, L	2431
490038*	Miscellaneous field investigation by staff at Vancouver office Obj: Various objectives according to the particular investigations, which include supervision of Geological Survey field parties, examination of mining properties, assistance in various government engineering projects such as water power sites, dams, tunnels, and location of convenient deposits of industrial minerals and rock materials.	Leaming, S	REG	CPM	GR	BC	<u>104 I, J, P</u>	296
500029*	Identification and biostratigraphic interpretation of referred fossils 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.	Staff of Eastern & Western Paleontology Sections	ISPG REG AGC	P CPM, CS EPG		NS NFld NB Yk Mack BC ALTA	95 B, C; <u>103 G; 82 E, K</u>	2431
500038	Coal resources of Canada and studies of coal deposits in Canada Obj: To prepare estimates on the coal reserves of Canada; to prepare for publication reports and illustrations concerning Canada's coal resources; to advise and prepare reports for other Branches or Departments when so requested; to have up-to-date knowledge of coal fields in Canada.	Irvine, JA	ISPG	CG	RE	-	27, 62, 72, 82, 83	312

Asterisk in first column indicates project has a field component. Brackets indicate seasonal employee or other non-staff. Underscoring indicates province of 1979-80 field work.

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
540028	Isotopic age determinations of rocks and minerals Obj: To determine the geological age of rock, minerals and geological events using isotopic methods.	Wanless, R K	REG	CS	G	-	-	2432
550004	Cretaceous and Jurassic of Richardson Mountains, Porcupine Plains and Eagle Plains Obj: To study the stratigraphy, paleontology, paleogeography and depositional tectonics of Cretaceous and Jurassic formations of the region. To describe and to figure the most important elements of their macroinvertebrate faunas.	Jeletzky, JA	ISPG	P	OP	<u>Mack Yk</u>	117,116,106	2431
550101*	Reference collections of minerals, rocks and ores Obj: To develop, foster and curate reference collections of minerals, rocks, and ore specimens in support of Branch activities and in the national interest.	Stacey, HR	CLAS	-	M	<u>Yk Ont Que</u>	-	2435
570029*	Geology and evaluation of iron and manganese resources Obj: To conduct comprehensive study and research on the geology of iron and manganese deposits to provide a geological basis for exploration, evaluation and development of iron and manganese resources in Canada.	Gross, GA	REG	EG	SP	<u>Nfld Que Ont Man, Sask, Alta Kee</u>	22,23,31,32 41,42,52,53, 62,64,65,93, 103	2465
570119*	Studies of meteorites and other extra-terrestrial material Obj: To study the mineralogy, petrology, and chemistry of Canadian meteorites, and of other extra-terrestrial material, and to apply the knowledge thus gained towards a better understanding of earth science processes; and to foster, develop and curate Canada's National Meteorite Collection.	Trail, RJ	CLAS	-	M	-	-	2435
570148	Radiocarbon dating program Obj: To plan and co-ordinate the radiocarbon dating program of the Geological Survey.	Blake, W Jr	TS	-	PG	-	-	2433
580036	Geology of titanium and titaniferous deposits of Canada Obj: To carry out comprehensive research on the geology of titanium and titaniferous deposits in order to: 1) support or provide geologically based estimates of Canada's mineral resources; 2) provide guidelines for their discovery; 3) provide advice to government for mineral policy and related matters.	Rose, ER	REG	EG	MDG	<u>Que Nfld Ont Man</u>	-	2465
580160	Catalogue of Canadian minerals Obj: To assist in the identification and inventory of potential mineral resources in Canada by compilation and publication of a Catalogue of Canadian Minerals that provides reference material for direct use by earth scientists, the mining industry and the general public.	Trail, RJ	CLAS	-	M	-	-	2435

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
580175*	Analytical services and development in geochemistry Obj: To coordinate and supervise the "in-house" sample preparation and analyses of sediment, soil, rock, mineral and water samples, collected by or for the Resource Geochemistry Subdivision.	Hall, GEM	RGG	RIE	GC	Sask	74 I	248
590457	Radiocarbon laboratory development and operation Obj: 1) To determine the age of carbonaceous matter using radiocarbon dating techniques; to ensure continuing and improving precision of existing techniques; and to keep abreast of current research on new techniques. 2) To conduct research on variations in the radiocarbon content of modern organic material and its application to age determinations on fossil material.	Lowdon, JA	TS	-	PG	-	-	2433
600307	X-ray emission analysis Obj: To contribute to the knowledge of Canadian mineralogy and mineral deposits through research and development of methods and concepts of X-ray emission analysis and application of these to the analysis of geological materials. To improve the quality and rate of production of X-ray fluorescence analyses that may be applied to geological research and to provide "custom" XRF analyses in support of G.S.C. research projects.	Lachance, GR	CLAS	-	AC	-	-	2435
600353	Dibranchiate volume of the Treatise on Invertebrate Paleontology Obj: To prepare an authoritative summary of the present state of knowledge of this sub-class of cephalopod mollusks. The final report is to be published as the Dibranchiate volume of the Treatise on Invertebrate Paleontology.	Jeletzky, JA	ISPG	P	OP	-	-	2431
610007*	Operation Porcupine Obj: Critical evaluation of the structural geology and stratigraphy within the project area of northern Yukon Territory and western District of Mackenzie for the documentation of the nature, origin, and mechanics of the deformation and its bearing on the hydrocarbon and mineral potential of the region.	Norris, DK	ISPG	CG	-	Mack Yk	106 E, F, K-N; 116 F-K, N-P	2412
610011	Taseko Lakes map-area Obj: To interpret the structure, stratigraphy and geological history of the Taseko Lakes area and evaluate its mineral potential.	Tipper, HW	REG	CPM	GR	BC	92 0	2412
610014	Cretaceous stratigraphy, Peace River to 60° Obj: To describe the stratigraphic successions, to collect samples for laboratory studies, and to collect fossil flora and fauna; to provide data on the correlation of Cretaceous strata, their lateral variations, their potentialities as sources of oil and gas, and their suitability as reservoirs for those fuels; to establish the relationships with equivalent successions studies between Peace and Smoky Rivers and in the region of Liard and Mackenzie Rivers.	Stott, DF	ISPG	-	-	BC	94 A, B, G, J, K, O, P	2421



Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
610019*	Ordovician and Silurian Biostratigraphy of British Columbia, Alberta, Manitoba Yukon, Mackenzie & Franklin	Norfjord, BS	ISPG	P	MaP	Frank Mack Yk BC Alta	36; 37; 47-49 54; 57-59; 67-69; 82 G, J; 83; 85; 93 I; 94 E; 97; 104 I, P; 105 I; 106; 116; 117; 120; 340	2431
610269*	Obj: Establishment of sequence of biochronological zones for Ordovician and Silurian time. Such sequence of zones to provide necessary time control for exploration of natural resources of Ordovician and Silurian rocks in northern and western Canada.  Petrographic examination of coking coals from the Kootenay Formation, Alberta and British Columbia  Obj: To determine the coking properties and to prepare seam profiles for correlation and environment of deposition studies on coals of the Kootenay Formation.	Cameron, AR	ISPG	CG	CT	Alta BC	Pts 82 G, J, O	2462
620308	Electron beam microanalysis  Obj: To conduct studies of geological materials using techniques of electron probe microanalysis and scanning electron microscopy, in support of Branch projects.	Plant, AG	CLAS	-	M	-	-	2435
630016*	Coast Mountains project  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.	Roddick, JA	REG	CPM	GR	BC	92 F NE $\frac{1}{2}$ , G W $\frac{1}{2}$ J, K, L NE $\frac{1}{4}$ , M $\frac{1}{2}$ , N $\frac{1}{2}$ , 93 D; 102 P; 103 A, G, I W $\frac{1}{2}$ , J, N, P, W $\frac{1}{2}$	2412
630017	Operation Liard  Obj: To establish the stratigraphic framework of the northern Rocky Mountains and in conjunction to establish a conceptual model of the structural deformation of these rocks.	Taylor, GC	ISPG	RG	-	BC	94 F, G, H, I, J, K, N, O, P	2412
630031	Multispectral Imagery  Obj: 1) To increase the utilization and improve the usefulness of imagery acquired from aircraft (e.g. colour photography, sidelook radar, gamma-ray spectrometry) by the development and application of techniques for analysis of such data. 2) To study the feasibility of establishing a Canadian Training Centre in Remote Sensing.	Slaney, VR	REG	RIE	RM	-	-	2423
630037*	Geology of Canadian nickel and platinum group deposits  Obj: To carry out comprehensive research on the geology of the Canadian nickel and platinum group deposits in order to: 1) support or provide geologically based estimates of Canada's mineral resources; 2) provide guidelines for their discovery; 3) provide advice to government for mineral policy and related matters.	Eckstrand, OR	REG	EG	MDG	BC Sask Man Ont Que	23; 31; 32 A; 41 I, P; 42 A, B; 52; 53 E; 63 O, P; 64 C; 74 H; 35 G, H	2465

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
630039	Geology of vanadium deposits in Canada Obj: To carry out comprehensive research on the geology of vanadium deposits in order to 1) support or provide geologically based estimates of Canada's mineral resources; 2) provide guidelines for their discovery; 3) provide advice to government for mineral policy and related matters.	Rose, ER	REG	EG	MDG	-	-	2465
630049*	Electrical Rock Properties Obj: To determine the frequency spectral characteristics of the electrical properties related to rock, mineral and soil types, and to rock texture, dissemination, pore structures and pore water structures, for development of new electrical and electromagnetic sounding methods, to solve specific problems of mineral exploration and/or geotechnical engineering.	Katsube, TJ	REG	TG	EM	Man Ont	-	2435
640036	Geology of the Lake Panache and Collins Inlet map-areas, Ontario Obj: To revise the stratigraphy and structure of the Huronian succession as previously shown (GSC maps 220A and 221A); to determine the nature of the Grenville Front within the area and the effect of metamorphism on the Huronian formations; and to determine the metamorphic and structural history and the mineral potential of the map-areas.	Frarey, MJ	REG	P	SP	Ont	41 H,J	2421
640048	Study of mineral collecting areas of interest to collectors and tourists 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.	Stenson, Mrs AP	CLAS	-	M	-	-	248
640125	General metallogeny of Canada Obj: To study metallogenic concepts pertaining to the geological and tectonic regions of Canada as a whole in order to determine relationships in the distribution of economic minerals to their geological environments and thus to more completely understand Canada's present and potential mineral resources.	Leech, GB	REG	EG	MDG	-	-	2465
640402	Certification of bedded and non-bedded mineral deposits 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.	Leech, GB	REG	EG	MDG	-	-	296
640420	Geological observations at shafts of potash mines in Saskatchewan Obj: To record geological data and obtain fossil and rock specimens from the rocks exposed in large-diameter potash mine shafts in the eastern Plains; to interpret these observations and material within the stratigraphic framework.	Price, LL	ISPG	RG	SM	Sask	64 K/5, 12; 72 O/16; 62 I/16; 72 P/13,14; 73 B/1,2,3	2421

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
650007*	Ocean aeromagnetics	Bower, ME	RG	RG	MM	Ont Que	-	2416
	Obj: 1. To conduct high resolution aeromagnetic surveys over the Canadian continental shelves for the purpose of delineating sedimentary basins. 2. To obtain and study magnetic data over the ocean basins in order to investigate theories of magnetic imprinting of oceanic rocks, ocean floor spreading and continental drift. 3. To develop and modify instrumentation and techniques for the improvement of airborne magnetometry, navigation, and data acquisition, processing and analysis.							
650008	Stratigraphy, sedimentology and correlation of Nonacho Group, N.W.T.	McGlynn, JC	REG	P	BS	Mack	75 E,F,K	2421
	Obj: To define the sedimentology and stratigraphy of Nonacho Group and relationships of these rocks to surrounding igneous rocks as a contribution to regional correlation and geological history of the region.							
650013	Quaternary geology, Aishihik Lake	Hughes, OL	TS	-	RP	Yk	115 H; pts. 106 D,E; 115 A,B,G,I	2413
	Obj: To map and explain the Quaternary geology and geomorphology of Aishihik Lake area with particular reference to the nature and distribution of surficial materials and Quaternary stratigraphy and history in order to 1) improve knowledge of the glacial history of southwestern Yukon; and 2) provide areal geological information for land use planning and engineering development.							
650015	Geology of the Mt. Edziza volcano	Souther, JG	REG	CPM	GR	BC	104 G,J	2421
	Obj: A detailed investigation of the geology, petrology and petrochemistry to determine the history and processes of evolution and relationship to contemporaneous plutons in the Stikine region.							
650023	Operation Bow-Athabasca	(Price, RA, Prof)	ISPG	RG	M	BC Alta	83, C, D, E <sub>1/2</sub> ; 82 J E <sub>1/2</sub> , N, O	2421
	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.							
650024*	Cambrian biostratigraphy of the Canadian Cordillera	Fritz, WH	REG	CS	EP	Mack Yk BC Alta	105 I; 106 B; 105 P; 106 A; 94 C; 94 F, K, L; 83 C; 82 N, O	2431
	Obj: To identify and describe Cambrian fossils from the Canadian Cordillera, ascertain their relative stratigraphic positions, and provide faunal correlations for their enclosing strata.							

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Classification
650027*	Quaternary of southern Alberta Obj: To gain knowledge of Quaternary Stratigraphy, chronology, environments and climates in southern Alberta.	Stalker, A M	TS	RP		Alta Sask	72, L, M; 73, 82, 83	2422
650056*	Geology of lead and zinc deposits in Canada Obj: To carry out comprehensive research on the geology of lead and zinc deposits in order to: 1) support or provide geologically based estimates of Canada's mineral resources; 2) provide guidelines for their discovery; 3) provide advice to government for mineral policy and related matters.	Sangster, D F	REG	EG	MDG	Que NS	32 D, F, K; 11 F, K	2465
660006	Granite studies in the Ennadai-Rankin Inlet region 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.	Davidson, A	REG	P	SG	Kee	55 E, F, K, L, 65 H, I	2436
660009	East Arm of Great Slave Lake, District of Mackenzie Obj: To refine existing stratigraphic descriptions and relationships of the sedimentary and volcanic rocks; to determine source regions and dispersal patterns in the sedimentary fill; to determine depositional environments and reconstruct the Paleogeographic history of the sedimentary basin.	Hoffman, P F	REG	P	BS	Mack	75 E, L, K; 85 H, I	2421
660026	Stratigraphy and conodont zonation of Lower and Upper Devonian strata of southwestern Ontario Obj: To establish conodont zonation of Devonian strata of southwestern Ontario, and to facilitate the more precise correlations of these strata with other sequences, such as the North America standard in New York State, and the mondial standards of France, Belgium and Germany. To give a brief history of the Devonian rocks of this area, to describe the rock units in modern terminology, and to provide a general geological setting to the discussion on conodont biostratigraphy.	Uyeno, T T	ISPG	P	MP	Ont	30 L, M; 40 G, I, J, O, P	2431
670002	Operation Bylot 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.	Jackson, G D	REG	P	NC	Frank	27; 37; 38; 47; 48	2411
670003	Anorthosite study Obj: To examine three large anorthosite intrusions between Michikamau Lake and Main, Coast of Labrador for purposes of comparison with Michikamau Intrusion (including mineral potential).	Emslie, R F	REG	CS	Pet	Que Nfld	13 L, M, N; 23 I	2421
670016	S. W. Ellesmere - W. Devon Islands (Operation Grinnell) Obj: To improve the understanding of the stratigraphy and structure of the region, which is a key area for information in both of these fields; a primary purpose is to aid in evaluation of the resource potential - particularly petroleum and base metals - of this part of the north.	Kerr, J W	ISPG	RG	AI	Frank	49 B, C; 59 A, B; 69 A	2412

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept/ Classification
670028	Geology of rare earth deposits of Canada Obj: To carry out comprehensive research on the geology of rare earth deposits in order to: 1) support or provide geologically based estimates of Canada's mineral resources; 2) provide guidelines for their discovery; 3) to provide advice to government for mineral policy and related matters; 4) development of practical and inexpensive field tests for the detection of rare-earth elements.	Rose, ER	REG	EG	M D G	-	-	2465
670041*	Electrical mapping techniques Obj: To assess the capabilities and limitations of using galvanic and electromagnetic techniques as a means of providing geological information, delineating faults and shear zones, and mapping permafrost occurrence and thickness.	Scott, WJ	REG	TG	EM	Frank Mack Sask Ont Man Que	21 M; 74 O; 107 C; 31 D, F, G, K; 68 H 85 B, J; 84 G; 52 L; 62 I	2435
670068	Operation Norman Obj: To complete reconnaissance geological mapping, to conduct stratigraphic and structural studies, and to evaluate the economic potential of bedrock formations in the subject area; to embody the results of these studies in an integrated series of reports and maps, some under single authorship and others under multiple authorship according to the topic of contribution.	Cook, DG	ISPG	RG	M	Mack	86 W $\frac{1}{2}$ ; 96; 97; 106 E $\frac{1}{2}$ ; 107 E $\frac{1}{2}$	2411
670576*	Canadian Triassic Ammonoidea and Bivalvia Obj: To describe and assess biochronological significance of Triassic Ammonoidea and Bivalvia in order to refine methods for dating Triassic rocks.	Tozer, ET	ISPG	P	Op BC	Frank Yk Alta	103 C, F; 104 P; 106 D; 116 B, D	2431
680012	Paleomagnetic study of Proterozoic red beds of the western Canadian Shield Obj: To obtain paleomagnetic pole positions from various Proterozoic red bed sequences in the western Precambrian Shield for purposes of correlation.	McGlynn, JC	REG	P	BS	Sask Kee	75 E, F; 74; 85; 86; 65; 66	2434
680015	Geological reconnaissance of eastern Devon Island and southeastern Ellesmere Island Obj: (a) Obtain reconnaissance data on the Precambrian rocks for correlation with the Precambrian rocks of Baffin and Ellesmere Island and of Greenland. (b) Obtain reconnaissance data on the sedimentary rocks so that the stratigraphy of the Ellesmere-Devon-Baffin region may better be understood.	Christie, RL	ISPG	RG	AI	Frank	38 F, G; 48 E-H; 39 B, C, F, H; 49 A, B, D	2411
680017	Sedimentology-engineering geology laboratory development and operation 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.	Podolak, WE	TS	-	SMT	-	-	244

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
680023	X-ray diffraction analyses and mineralogical studies Obj: To provide X-ray diffraction analyses and mineralogical studies in support of Branch projects.	Traill, R J	CLAS	-	M	-	-	2435
680027	Surficial geology, Tawatinaw area Alberta Obj: To map, describe and explain the unconsolidated deposits and landforms of the Tawatinaw map-area (83 I) in central Alberta 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.	Richard, SH	TS	-	RP	Alta	83 I	2413
680031*	Quaternary stratigraphy of Old Crow Basin and Porcupine River Valley 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 archaeology studies by National Museum scientists.	Hughes, OL	TS	-	RP	Yk Mack	<u>106 E.F.N; 115 P; 116 I,O,P; 117 A</u>	2422
680047*	Geomorphic processes, Mackenzie Valley-Arctic Coast Obj: To investigate the processes involved in the growth of permafrost and ground ice under present day conditions, in order to understand better the processes associated with the past growth of permafrost in northern Canada	(Mackay, JR Prof)	TS	-	GP	Mack Yk	<u>85, 95, 96, 97 C,D,106, 107 B,D; 117 D; 96 B-F; 106 -F, I,P; 116 I,N-P</u>	244
680060*	Geology of silver and gold deposits in Canada Obj: To carry out comprehensive research on the geology of silver and gold deposits in order to: (1) support or provide geologically based estimates of Canada's mineral resources; (2) provide guidelines for their discovery; (3) provide advice to government for mineral policy and related matters.	Thorpe, RI	REG	EG	MDG	Que Ont NS BC	52 K-N; 92 H,J; 94 E, 103 G	2465
680064*	Stratigraphy and Paleontology of Upper Paleozoic rocks on Ellesmere and Axel Heiberg Islands Obj: (a) To improve the understanding of stratigraphy and facies relationships of the marginal and axial parts of the Sverdrup Basin; (b) to establish a biostratigraphic framework for Carboniferous and Permian rocks; and (c) to evaluate the economic potential of the area.	Nasschuck, WW	ISPG	P	MaP	Frank	49 B,C,F,G,H;340 A, B,C,D;	2421

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
680066	Geology of the Cariboo Mountains, British Columbia Obj: To determine the tectonic movement of the Cariboo Mountains, and explain their origin, development mode of emplacement and economic potential.	Campbell, RB	REG	CPM	GR	BC	83 D; 93 A,H	2412
680071	Alkaline rocks in Canada Obj: To identify and examine occurrences of alkaline rocks in Canada, and to explain their origin, development mode of emplacement and economic potential.	Currie, KL	REG	CS	Pet	-	-	2421
680073	Magnetic anomaly map of Canada Obj: To prepare and publish the fourth edition of the magnetic anomaly map of Canada (1255A) in order to portray the major magnetic patterns and to interpret the resultant map and associated data in terms of the regional geology, tectonics, metamorphism and metallogeny of Canada.	McGrath, PH	REG	RG	M	-	-	2423
680076	Geology of Southern Indian Lake, Manitoba Obj: To study and assess an area of scientific and economic potential, before flooding caused by construction of the Southern Indian Lake diversion dam. Particular attention will be given to the relationships of the Sickle and Wasekan Groups to various intrusive rocks of the region. Publication scale 1:500 000.	Davison, WL	REG	P	NC	Man	64	2411
680081*	High resolution aeromagnetics (experimental surveys) Obj: To execute, according to prescribed specifications, high resolution aeromagnetic and/or gradiometer surveys over areas selected and defined by Regional Geophysics program management.	Olson, DG	REG	RG	MM	Que Man NB NS Ont Sask BC	30 M; 52 L; 92 F,H; 93 E,L; 42 E; 31 B,K 21 A; 64 L; 74 I	2416
680082	Annual review, Exploration Techniques Obj: To provide an annual review of new mining geophysical, geochemical, data recording and compilation techniques for the mineral exploration industry.	Hood, PJ	REG	RG	MM	-	-	296
680084	Operation Smoky Obj: To establish the interdependent relationships of the structure, and stratigraphic succession between the contrasting areas of the southern Rocky Mountains and those of the northern Rocky Mountains.	Taylor, GC	ISPG	RG	-	BC	93 I,0,P	2412
680090	Identification of unknown minerals by X-ray and chemical methods Obj: Quantitative and semiquantitative analysis of layer lattice silicates, mixed layer silicates, clays, minerals and elements in samples submitted by GSC staff.	Foscolos, AE	ISPG	E	GC	Alta	-	2435

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
680091	Clay and clay minerals investigation 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.	Foscolos, AE	ISPG	E	GC	Alta	-	2435
680093*	Upper Silurian and Devonian biostratigraphy western and northern Canada Obj: Elucidation of the sequence 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. Paleocological and biogeographic analyses of species and other taxonomic categories that have different time ranges in different geographic realms and ecologies.	Pedder, AEH	ISPG	P	MaP	Sask Man Alta BC Yk Frank Mack	106 C, D, E, F; 116 G, H; 84 P; 85 A, B, C, F; 94 B; 95 J	2431
680096	Studies in the Seal Lake Volcanic Province Obj: To determine the characteristic composition, variation in composition, and stratigraphy of the Seal Lake, Croteau and Letitia volcanic successions with a view to elucidating the character of volcanism and the history of the Seal Lake belt. To provide data that may be of aid in prospecting and to expand the G.S.C. data base on volcanic terrane.	Baragar, WRA	REG	P	SP	Nfld	13 K, L	2421
680101	Conodont biostratigraphy of Siluro-Devonian rocks of the Arctic Islands 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.	Uyeno, TT	ISPG	P	MiP	Frank Kee	49, 57, 58, 59, 68, 69, 78; 89	2431
680102*	Rank and petrographic studies of coal and organic matter dispersed in sediments Obj: To obtain information on local and regional changes in organic metamorphism, with application towards economic geology, search for oil and gas, and evaluation of properties of coking coals.	Hacquebard, PA	AGC	EPG	-	NB Nfld NS Que PEI	12, 21, 11, 20	2462
680109	Palynological zonation of the Carboniferous and Permian rocks of Atlantic Provinces, Gulf of St. Lawrence and Northern Canada 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.	Barss, MS	AGC	EPG	SS	NS NB Nfld PEI Yk Mack Frank	11 E; 1; 2; 11; 12; 95	2431



Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Classification
680114*	Development and supervision of mineral deposits data bank  Obj: To establish 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 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-related files.	Anderson, F D	REG	EG	MDB	-	-	2465
680119*	Operation Stewart  Obj: To outline and interpret the regional stratigraphy and structure in a previously unmapped part of the Selwyn Basin and to relate these features to the search for mineral deposits analogous to the Keno Hill and Vangorda deposits on the west and south.	Blusson, SL	REG	CPM	GR	Mack Yk	105 I, N, O, P, 106 A, B, C	2412
690005	Structural geology of northern Yukon Territory and northwestern District of Mackenzie  Obj: Critical evaluation of the structural geometry of Richardson, Barn and British Mountains, intervening plateaux, and adjacent coastal plain for the documentation of the nature, origin and mechanics of the deformation and its bearing on the hydrocarbon potential of the region.	Norris, DK	ISPG	CG	-	Yk Mack	117 A, B, C, D, 107 B, C	2421
690009	Smithers map-area  Obj: To interpret the structure, stratigraphy, and geologic history of Smithers map-area and to provide a regional structural, stratigraphic and plutonic framework to which the mineral deposits can be related.	Tipper, HW	REG	CPM	GR	BC	93 L	2412
690038	Probability models for estimating mineral potential  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	Agterberg, FP	REG	EG	GM	-	-	412
690043	Quaternary geology inventory, southern Labrador  Obj: To map and explain Quaternary deposits and landforms in order to provide: (1) areal geologic and geomorphic data; and (2) knowledge of stratigraphy, age and history of Quaternary features.	Fulton, RJ	TS	-	RP	Nfld	12 P; 13 A-K; pts 13 L, N, O; 23 H	2413
690054	Erosion in a permafrost environment  Obj: To document the nature, extent, and rate of erosion in permafrost areas disturbed by activities of man, and to determine the importance of surface material, geomorphology, microclimate, snow cover, vegetation, depth of active layer, ground ice distribution and other factors on controlling erosion.	Heginbottom, JA	-	GP	-	Mack	107 B, C (parts of)	244
690061	Operation Penny Highlands  Obj: To provide a reconnaissance geological survey of a previously unmapped area and describe and interpret the geological framework and outline areas of potential economic interest.	Jackson, GD	REG	P	NC	Frank	16 E, K-M; 26 H, P; 27 A, B; 36 P; 37 A, B	2411

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Uepci Classification
690064	Quaternary palynology	Mott, R J	TS	-	PG	Ont Que BC NB	82 E, I; 92 G, H, I; 31 G-F; 21 G, H, I, J, N, O, P	2433
690065	Surficial geology St. Anthony - Blanc Sablon, Newfoundland	Grant, DR	TS	-	RP	Nfld	Pts 2 M; 12 H, I, P	2413
690072*	Federal-Provincial Aeromagnetic Survey contract No. 69-54 Labrador, Melville Peninsula, Coppermine - Great Bear Lake Areas	Ready, EE	REG	RG	CAS	Nfld; Que; Frank; Kee	76 L, M; 86 A-C; E-P; 3 D, E; 13 A-L M, N, O; 14 D-F, L, M; 23 A, B, G-J, O, P; 24 A, H, I, P; 25 A; 46 D-G, J-P; 47 A-D	2416
690075*	Tertiary foraminiferal succession of Western Cordillera and Pacific Margin	Cameron, BEB	REG	CPM	MG	BC	92 C; Pts 93; 102 I; 103	2431
690086	1:1 million Geological Atlas Project	Douglas, R JW	DGO	-	SP	-	-	2423
690089	Analysis of international reference samples	Abbey, S	CLAS	-	AC	-	-	2435

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
690090	Development of methods for the analysis of geological materials Obj: To develop, modify and improve methods for the analysis of geological materials, using chemical and instrumental methods.	Abbey, S	CLAS	-	AC	-	-	2435
690095*	Properties and provenance of till Obj: (1) To build a data bank comprising chemical, petrologic, and geotechnical properties of till in Canada. (2) To define till provenance regions based on data from objective 1. (3) 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, geomaterial, and biological problems that can be defined areally.	Shifts, W W	TS	-	SMT	Que Kee Frank	56 D; 55 L; 21 E; 38 B, C, 48 D 35 L 45 J	244
700003	Kootenay River (NTS 82) map area, 1:1 million Geological Atlas Program Obj: To publish a modern compilation and synthesis of the geology of the map-area as a unit of a 1:1 million geological atlas of Canada. More detailed objectives are as of April 1, 1969 File 116-6-4.	Okulitch, A V	REG	CS	Pet	BC	82	2423
700008	St. Mary's River (NTS 11) map-area, 1:1,000,000 Geological Atlas Program Obj: To publish a modern compilation and synthesis of the geology of the map-area as a unit of a 1:1 million geological atlas of Canada. More detailed objectives are as April 1, 1969 File 116-6-4.	Poole, W H	REG	CS	A	NS PEI NB NFId Que	11	2423
700011	St. John River (NTS 21) map-area, 1:1,000,000 Geological Atlas Program Obj: To publish a modern compilation and synthesis of the geology of the map-area as a unit of a 1:1 million geological atlas of Canada. More detailed objectives are as April 1, 1969 File 116-6-4.	Poole, W H	REG	CS	A	NB PEI Que	21	2423
700014	Mineral indicator tracing southern Keewatin Obj: (1) To develop methods of utilizing drift composition for prospecting in perennially frozen terrain; (2) to define glacial and postglacial processes that affect regional and local variations in till mineralogy and chemistry; (3) to define the relationship of till compositions to compositions of bedrock or to those of higher order derivations (eskers, modern lake sediment, marine sediment etc).	Shifts, W W	TS	-	SMT	-	-	244
700015	Yellowknife and Hearne Lake map-areas, District of Mackenzie Obj: To revise and interpret the geology and economic potential of the Precambrian terrain of the project area known only through earlier gross reconnaissance.	Henderson, J B	REG	P	BS	Mack	85 I, J	2412

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
700016	Plaster Rock (east half) map-area, N.B. Obj: To determine the stratigraphy, structure, and igneous metamorphic and tectonic history of a part of the Central Mineral Belt of New Brunswick, as an aid to the economic development of the region.	Skinner, R	REG	P	-	NB	21 J/14 E1/2	2421
700018	Paleomagnetism and rock magnetism instrumentation and technological development Obj: To contribute to the development of paleomagnetism as a geophysical method: (a) by designing, building, testing and calibrating instrumentation required for the measurement of magnetic properties of rocks and minerals; (b) 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; (c) by improving on the design of existing instrumentation or techniques in order to improve the efficiency of the laboratory and/or the quality of the data emanating from the laboratory.	Christie, K W	REG	P	P Mag	Ont	-	2434
700037*	Geology of the southern Alberta Foothills, Highwood River to Athabasca River Obj: To provide an improved basis for mineral evaluation and oil and gas development of the region, through the publication of new and revised geological maps and cross sections, on a scale of 1:50,000; integrated analyses of surface and sub-surface geology; the description, correlation and facies relationships of all major rock units; and the description, genetic analysis and relationships of the major structural elements; to provide data for 1:250,000 scale map compilations and regional structural syntheses.	Ollershaw, N C	ISPG	C G	C G	Alta	82 O, J, 83 B, C, F	2421
700045	Beicher Channel and Ballantyne Strait (NTS 59,69,79,89,99) map-area. 1:1 million Geological Atlas Program Obj: To publish a modern compilation and synthesis of the geology of the map-area as a unit of the 1:1 million geological atlas of Canada. More detailed objectives are as April 1, 1969 of File 116-6-4.	Nassichuk, W W	ISPG	P	MaP	Frank	59; 69; 79; 89; 99	2423
700047*	Operation Finlay Obj: To establish the stratigraphy, structure and geologic history; to establish the geological framework to which the mineral deposits may be related as an aid to regional development.	Gabrielse, H	REG	CPM	GR	BC	94 C E $\frac{1}{2}$ , F W $\frac{1}{2}$ , E	2412
700048	Petrology and structure of the Daly Bay Complex and environs Obj: To determine the petrology and structure of the anorthosite-gabbro-gneiss-granulite complex in the Daly Bay region in order to understand its origin, age, and stratigraphic relations.	Gordon, T M	REG	CS	Pet	Kee	56 A South half parts of 55 P and 46 D	2421

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
700055	Geology of chromium deposits of Canada Obj: To carry out comprehensive research on the geology of chromium deposits in order to: 1) support or provide geologically based estimates of Canada's mineral resources; 2) provide guidelines for their discovery; 3) provide advice to government for mineral policy and related matters.	Dawson, KR	REG	EG	MDG	-	-	2465
700056	Surficial geology, Cape Breton Island, NS 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 on the stratigraphy and age of Quaternary features and of the history of Quaternary events and environments including glaciation, deglaciation, and local sea-level change.	Grant, DR	TS	-	RP	NS	11 F, G, J, K	2413
700059	Geology of copper and molybdenum deposits in Canada - I 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; (3) provide advice to government for mineral policy and related matters.	Kirkham, RV	REG	EG	MDG	-	-	2465
700061*	Seismic-Precambrian Shield Obj: To apply seismic refraction and reflection methods to solution of geological problems in the Precambrian Shield. To apply sonic methods to downhole environments. To apply sonic methods to such problems as subsurface structure, boundaries between geological provinces, interfaces between geological formations, definitions of orebodies, delineation of Conrad discontinuity, etc.	Overton, A	REG	RIE	SM	Frank	66 B	2421
700073	Operation Northern Melville Peninsula Obj: To determine the general structure, historical and economic geology of a previously unmapped terrain in order to aid future economic development of northern Canada.	Heywood, WW	REG	P	NC	Frank	Pts. of 47 A-D	2412
700092*	Surficial geology and geomorphology, Mackenzie Bay - Continental Shelf Obj: To resolve the stratigraphic and structural relationships of the unconsolidated surficial marine sediments of the Beaufort continental shelf to provide the geological framework necessary for: the delineation of permafrost; the assessment of offshore aggregate supplies; the establishment of engineering design criteria for offshore structures for petroleum exploration and production; the resolution of the Quaternary history of the shelf area; the identification of sedimentary and geomorphic processes operating on the shelf; and to continue development of the technology necessary to conduct surficial marine geological surveys in ice covered areas of the arctic and in shallow coastal waters.	Blasco, SM	AGC	EMG	CGD	Frank, YK	87, 97, 107, 117	2415

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
710013	Northern Basin Analysis Program: Peel River map-area	Pugh, DC	ISPG	RG	M	Mack Yk	95, 96	2421
	Obj: To provide a thorough understanding of the geological history of the sedimentary basins north of the 60th parallel of latitude, stressing the inter-relationships of tectonics sedimentation, biostratigraphy, geochemistry and hydrocarbon distribution. To evaluate the oil and gas potential of the region.							
710016	Geological and Tectonic Compilations	Douglas, RJW	DGO	-	SP	Ont Que	pts 31, 41, 52	2421
	Obj: 1) Maintain a continuing compilation of data received from 1:1 million Geological Atlas (project 690086) for revision of Geological and Tectonic Maps at 1:2 1/2 million and 1:5 million scale. 2) Maintain data available for use as a base for compilations of other data-magnetic, gravity, mineral deposits, etc.							
710018	Alberta Foothills	Douglas, RJW	DGO	-	SP	Alta	82 H; 83 C, F	2421
	Obj: 1) standard 1 mile mapping with emphasis on stratigraphy and structure; revision of mapping by B.R. Mackay; oil, gas, coal potentialities.							
710020	Surficial geology and land classification, Mackenzie Valley Transportation Corridor	Hughes, OL	TS	-	RP	Mack Yk	96 C-F; 106 H-N, O, P; 107 A; 97 C; 116 N, O, P	2413
	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.							
710022*	Carboniferous and Permian biostratigraphy and coral faunas, western and northern Canada	Bambers, EW	ISPG	P	MaP	Frank Mack Yk BC Alta	49; 59; 69; 78; 79; 82 G, H, J, M, N, O; 83 B, C, D, F, G; 92; 93 I, 94-95; 103-106; 115-117; 340; 560	2431
	Obj: Establishment of faunal sequence within stratigraphic framework previously described for Upper Paleozoic of Alberta, British Columbia, Yukon, and District of Mackenzie, for use as a biostratigraphic reference succession in surface and subsurface exploration of these areas. Description of coral and other faunas from these areas to document the above succession and facilitate its use by other workers in industry and in other government organizations.							
710023	Granite studies in the Slave Province (Phase 1)	Davidson, A	REG	P	SG	Mack	85 I, P	2421
	Obj: To classify the granitic rocks according to age, geological and chemical nature, using geophysical parameters where available, and to relate them to the regional geology and to mineral deposits.							

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
710033	Northern Basin Analysis Program: Great Bear, Redstone and Great Slave map-areas Obj: To provide a thorough understanding of the geological history of the sedimentary basins north of the 60th parallel of latitude, stressing the inter-relationships of tectonics, sedimentation, biostratigraphy, geochemistry and hydrocarbon distribution. To evaluate the oil and mineral potential of the region.	Williams, GK	ISPG	RG	M	Mack	85, 95, 96	2421
710038	Juniper (east half) map-area, NB Obj: To determine the stratigraphy, structure and igneous, metamorphic and tectonic history of a part of the Central Mineral Belt of New Brunswick as an aid to the economic development of the region.	Skinner, R	REG	P	-	NB	21 J/11 E½	2421
710048*	Geological and geophysical studies of the Pacific Continental Margin Obj: To establish the geological framework of the Pacific Continental Margin; determine the hydrocarbon potential of its contained sedimentary basins, and to determine the tectonic development of the Pacific Continental margin especially its interaction with the Pacific ocean floor.	Tiffin, DL	REG	CPM	MG	BC	Pts 92; 102; 103	2417
710049	Geological and geophysical studies in the Beaufort Sea Obj: To produce a magnetic anomaly map and selected shallow seismic profiles of the Beaufort Sea.	Currie, RG	REG	CPM	MG	Mack	87, 97	2417
710059	Stratigraphy and sedimentology of the Mesozoic and Tertiary rocks of the Atlantic continental margin Obj: To determine stratigraphy and sedimentology of the Mesozoic and Tertiary rocks of the Atlantic continental margin and the basin; delineate distribution of clastic, carbonate, evaporite sequences, their thickness, composition, provenance, current patterns, depositional environment and porosity development as an aid to the resource evaluation of this region.	Jansa, LF	AGC	EPG	SS	-	-	2421
710061*	Compilation of geoscientific data in the Upper Paleozoic basins of southeastern Canada Obj: Compile data for a detailed study of the petroleum potential of the Magdalen and Sydney basins.	Howie, RD	AGC	EPG	-	NS NB NFid PEI	1, 1, 10, 11, 14, 20	2423
710062	Paleostratigraphy and Paleogeology of the Mesozoic and Cenozoic rocks of the Atlantic Continental Margin Obj: Application and refinement of the Palynological zonation now established for the Mesozoic and Cenozoic of the Scotian Shelf, Grand Banks and Labrador Shelf. Correlation with coeval assemblages from European stratotypes, and DSDP coreholes in the Atlantic Ocean, and eastern U.S. surface sections. Determine paleoecological value, paleoecological fluctuations of the dinocysts. Undertake visual kerogen analysis for resource evaluation. Produce (four issues of) Geolog.	Williams, GL	AGC	EPG	SS	NS NB, NFid PEI	1, 2, 10, 11, 14, 20 E	2431

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
710065	Biostratigraphic zonation (Foraminifera-Ostracoda) of the Mesozoic and Cenozoic rocks of the Atlantic Shelf 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.	Ascoli, P	AGC	EPG	SS	NS, Nfld		2431
710091	Palynological studies of Mesozoic and Tertiary coal measures in western and northern Canada Obj: (1) To establish palyno-stratigraphic zonation of coal measures and contiguous strata as an aid to petrological, sedimentological and structural interpretations of coal basins. (2) Where applicable to correlate coal seams by means of spore and pollen histograms.	Sweet, AR	ISPG	P	MIP	BC Alta Yk	82; 83; 92 I; 106; 117	2462
710098*	Data Systems Group Obj: 1) To act as specialist consultants to Divisions as required; 2) to undertake general feasibility studies; 3) as advisers to Branch Management on computer use in GSC; 4) continuing administration of operation of Branch Systems.	Hutchison, W W	DGO	-	DSG	-	-	248
720037	Stratigraphy and structure of the Mount Ida Group southern B.C. Obj: To revise the stratigraphy of the Mount Ida Group and the geology of the Shuswap Metamorphic Complex.	Okulitch, AV	REG	CS	Pet	BC	82 L, M	2421
720039	Operation Nuviik Obj: To determine the geological framework of the region as a basis for estimating the potential abundance and probable distribution of minerals and fuels and to aid in the future development of the region.	Taylor, FC	REG	P	SP	Que	25 E, F; 35 F, G, H, I, J, K	2412
720041*	Upper Paleozoic rocks of western Canadian Cordillera Obj: To determine the stratigraphy, facies, structural style and external relationships of Upper Paleozoic rocks in the western Canadian Cordillera and to establish reference sections typical of the various facies belts.	Monger, JWH	REG	-	CPM	BC Yk	pts. of 92, 93, 94, 115, 103 H, I; 104 A, G, I, J, K, N, P; 115 B, C, F, G	2421



Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
720044	Reconnaissance of Mesozoic Foraminifera of Arctic Islands Obj: To assess the assemblage composition, paleoecology and biochronological significance of Mesozoic Foraminifera in the Arctic Islands in order to better define Mesozoic subsurface and outcrop stratigraphy.	Wall, JH	ISPG	P	MIP	Frank	49, 59, 69, 79, 88, 89, 98, 340	2431
720052	Geology of Indin Lake (86B) Obj: To revise and interpret to modern standards the geology of the Precambrian terrane of the area known only through early reconnaissance and semi-detailed mapping.	Frith, RA	REG	P	BS	Mack	86 B	2421
720056	Paleomagnetism of the dykes of west Greenland Obj: To determine the paleomagnetism of the diabase dyke swarms of west Greenland in order to examine the possible correlation of the rocks of this area with those of Baffin Island and the coast of Labrador.	Fahrig, WF	REG	P	-	-	-	2434
720062	Volcanic rocks of the Prince Albert Belt Obj: To determine the structure, stratigraphy and petrology of the volcanic rocks of the Prince Albert Group and relationship to the adjacent gneisses and the enclosed basic and ultrabasic rocks; to evaluate the mineral potential of the belt.	Schau, M	REG	P	NC	Frank Kee	47 A,D; 56 J,K	2421
720066	Evaluation of Canada's petroleum potential Obj: To provide the necessary data base in support of departmental oil and natural gas energy programs and policy; to research methods for a basin-by-basin analysis of the liquid hydrocarbon reserves and/or potential in the sedimentary basins of Canada both onshore and offshore; to create and maintain an inventory of hydrocarbon deposits in Canada.	McCrossan, RG	ISPG	E	PR	-	-	311
720070	Gneisses of the Prince Albert Group Obj: To determine the feasibility of further structural, stratigraphic and petrological studies of the gneissic rocks adjacent to the Prince Albert Belt of metamorphosed sedimentary and volcanic rocks.	Frisch, T	REG	P	NC	Frank Kee	Pts. of 46 M,N,L; 47 A,B; 56 J,J,P	2421
720071*	Airborne Gamma-Ray Spectrometry (Experimental Surveys) Obj: (1) Provide acceptable standards for the acquisition and compilation of airborne gamma-ray spectrometric data. (2) Demonstration of suitability of airborne gamma-ray spectrometry methods in various parts of Canada by: i) conducting orientation surveys in advance of U.R.P. contract surveys. ii) conducting reconnaissance surveys maps. iii) 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.	Holman, PB	GGG	RR	RM	Ont Sask <u>Que</u>	11 D,E,F,K; 21 A,G,H,J, N,O; 31 C,D,F; 74 E,J, L,M; 72, 82; 83; 52 A, H,L; 75 K,N; 64 L; 13 M	2463

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
720072*	Paleozoic ostracodes of Canada	Copeland, MJ	REG	CS	EP	Ont <u>Que</u> NB NS NFId	11 E, F, K; 12 B, L; 21 A, P; 22 A, B; 30 L, M; 40 I, P	2431
720073	0bj: By means of microfossils and non-trilobite Arthropoda to determine the zonation and correlation of strata among the Paleozoic sedimentary basins of Canada and thus aid in assessing the economic potential of these rocks. Petrographic Analysis of Saskatchewan Lignites	Cameron, AR	ISPG	CG	CT	Sask	62 E; 72 F, G, H	2462
720075	0bj: 1. Petrographic characterization of Saskatchewan lignites. 2. Determination of vertical and lateral changes in petrographic composition 3. Relation of petrographic composition to environment of deposition. Paleomagnetism of the Hopeland diabase dykes	Christie, KW	REG	MAG	P	NFId	13	2434
720078	0bj: To determine the paleomagnetism of three swarms of unaltered diabase dykes in the Hopeland area, Labrador. Diatom analysis and paleoecological studies of Quaternary sediments	Lichti-Federovich, S	TS	PG	-	-	-	2433
720080*	0bj: (1) To develop diatom analysis as a paleoecological tool in conjunction with palynological and plant megafossil analyses. (2) To provide paleoecological interpretation and biostratigraphic correlations of Recent and Quaternary sediments. Interpretation of aeromagnetic surveys	Kornik, LJ	REG	RG	MM	Ont <u>Man</u> Sask	31 F, C; 52 E; 55, 56, 64 L, N, 65, 66, 74 I, 75, 76	2416
720081	0bj: To express the significance of aeromagnetic data in terms of lithological structural and metamorphic patterns in support of mineral exploration, geological mapping and radioactive waste disposal programs and to integrate this information with other types of geoscience data. Surficial geology and geomorphology of Central Ellesmere Island	Hodgson, DA	TS	-	RP	Frank	Pts 49 C, D, E, G, H; 340 B	2413
720084*	0bj: To provide an inventory of surficial materials, landforms, geomorphic processes (active and inactive) and permafrost conditions, with particular reference to terrain information pertinent to the implementation of territorial Land Use Regulations and to the effects of the terrain on petroleum exploration and related activities. Gamma-Ray Spectrometry (Technique Development)	Grasty, RL	REG	RIE	RM	Ont <u>Alta</u>	31 C	2463
720089	0bj: To develop improved methods of airborne gamma-ray spectrometry data collection, analysis and presentation. Quantification of geological variables and geomathematical estimation of mineral potential	Fabbri, AG	REG	EG	GM	-	-	412

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
720095	Geology of barium, Fluorine and strontium deposits in Canada Obj: To carry out comprehensive research on the geology of barium, Fluorine and strontium deposits in order to: 1) support or provide geologically based estimates of Canada's mineral resources; 2) provide guideline for their discovery; 3) provide advice to government for mineral policy and related matters.	Dawson, KR	REG	EG	MDG	-	-	2466
720098	Lower Paleozoic stratigraphy, southern Rocky Mountains Obj: To determine the nature, thickness, distribution and origin of Lower Paleozoic formations of the region.	Aitken, JD	ISPG	RG	M	BC Alta	82, 83	2421
720101	Bottom studies of the Beaufort Sea Obj: To obtain information on bottom sediments and their dispersal trends, and to describe bottom morphology with reference to ice-scour and pingo-like features in order to provide data for engineering works and environmental programs, and to provide maps and other illustrative material to support such programs.	Pelletier, BR	TS	-	SP	Frank Mack Yk	97 C, F, G; 107 A, B, C, D, F; 117 A, B, C, D	2453
720102	Marine Science Atlas of the Beaufort Sea 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.	Pelletier, BR	TS	-	SP	Mack Frank Yk	97 C, F, G; 107 A, B, C, D, E; 117 A, B, C, D	2423
720103	Hydrocarbon inventory of the sedimentary basins of Eastern Canada Obj: To prepare and maintain a geological appraisal of the potential oil and gas resources of the sedimentary basins of Eastern Canada, including those on the Atlantic continental margin and in Baffin Bay, the Atlantic Provinces and Gulf of St. Lawrence and the St. Lawrence and Hudson Platforms.	Wade, JA	AGC	EPG	RSBS	-	-	311
720104*	Regional subsurface geology of Mesozoic and Cenozoic rocks of the Atlantic continental margin 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.	Wade, JA	AGC	EPG	RSBS	NS	<u>21 A, H</u>	2461
730001*	Primary halos and metallogenic distribution of the elements Obj: (1) To demonstrate that data of trace and major element profiles transversal and vertical to primary halos and zonation of ores about intrusive centres may be used as a guide to prospecting for various types of epigenetic mineral deposits. (2) To demonstrate the effective use of metallogenic and geochemical data in regional prospecting for mineral deposits.	Boyle, RW	RG	RIE	SP	Ont	-	2465

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
730004*	Applied E M problems  Obj: To develop theories for new e.m. exploration techniques with special reference to ground and airborne mapping of permafrost and unfrozen ground. To develop methods for quantitative interpretation of e.m. data. To assess various e.m. systems, analyze their deficiencies, if any, and suggest suitable remedies.	Sinha, AK	RGG	TG	EM	Sask BC Mack Ont	92 J; 107 C,B; 74 N; 31 G	2435
730006*	Seismic properties of earth materials in the permafrost environment  Obj: To identify and delineate permafrost in continuous and discontinuous zones in the various geomorphological environments found in northern Canada; to obtain acoustic and elastic properties of permafrost and correlate these with lithology, moisture content, temperature, etc; to investigate the applicability of shallow seismic techniques in permafrost areas; to design and test new instrumentation relating to these problems.	Hunter, JA	RGG	TG	SM	Frank Yk Mack Kee	107, 115, 106 117 105	2435
730008	Satellite Imagery Evaluation  Obj: 1) To identify the potential geological applications of satellite imagery. 2) To maintain on file, a collection of Landsat imagery for use by GSC staff. 3) To provide advice and assistance to geologists in the use of Landsat imagery.	Slaney, VR	RGG	RG	RM	-	-	2423
730012*	Federal Provincial aeromagnetic Surveys-Quebec  Obj: To provide GSC and Quebec Department of Natural Resources with aeromagnetic data as an aid to geological mapping programs and to provide a data base for the Magnetic Anomaly Map of Canada. To provide the mining industry with aeromagnetic survey data for use in mineral exploration programs.	Knappers, WA	RGG	RG	CAS	Que	24 D-N; 25 C-F; 35 A-C,F-K; Pts 23 M; 24 A,H,I; 34 A,B; 33 O,P	2416
730013	Quaternary geology inventory - Southern Keewatin  Obj: (1) To produce a map of southern Keewatin showing surficial geology at a scale of 1:500,000 from Chesterfield Inlet south to Manitoba and east of 97°00'. (2) To produce maps for open filing at scales of 1:125,000 based on 1:250,000 NTS sheets, (3) To collect regional samples of till to describe its sedimentology, geotechnical properties, and geochemistry. (4) To elucidate the history of the south and central portions of the Keewatin Ice Divide.	Shifts, MW	TS	-	SMT	Kee	65 A-C,F-K,N-P; 55 D,E, F,L,K,N,O; 66 A-C,F-K, N-P; 56 D	2413
730019	Permafrost drilling and sampling service  Obj: To carry out a shallow drilling and sampling program in permafrost areas in support of various Division projects and to provide the Division with a developmental and operational capability in light drilling equipment.	Veillette, JJ	TS	-	RP	-	-	2413

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
730021	Coastal erosion-sedimentation, northern Somerset Island Obj: To map the modern sedimentary environments of the coasts of northern Somerset Island and adjacent islands with particular reference to the processes controlling erosion, transportation and deposition of sediments and the role of permafrost and sea ice movement. To provide basic data that will help assess the impact of various human activities on the natural balance of processes with particular reference to gas pipeline concerns.	Taylor, RB	AGC	EMG	CGD	Frank	-	244
730027*	Late Cenozoic fossil insects and Late Cenozoic paleoecology Obj: To provide biostratigraphic and paleoecologic information on late Cenozoic terrestrial sediments as an aid to interpretation of their age and environment of deposition.	Matthews, JV Jr.	TS	-	PG	Mack Frank Yk BC Ont Que	117 B; 116 A, B, I, J, K, N, O, P; 115 B, G, I, O, P; 107 P; 106; 105 D, E, K, L, M; 97 G; 98; 69 H; 56 D, 8; 68 H; 31 G, H, I; 11 N	2433
730035*	Operation Mt. St. Elias Obj: To determine the stratigraphy, structure, metamorphism, and relationship of intrusive and volcanic rocks, and to assess the mineral potential of the area.	Campbell, RB	REG	CPM	GR	Yk BC	114 P, O; 115 A-C, F, G	2412
730036*	Geology of Victoria map-area, Vancouver Island Obj: To map the geology and study stratigraphy, structure, metamorphism and petrology of the region.	Muller, JE	REG	CPM	GR	BC	92 B, C	2421
730037	Stratigraphy, structure, and metallogeny of Pelly Mountains, and Yukon Plateau, Yukon Territory Obj: To provide information on the relationship between stratigraphy, structure, sedimentary facies, and mineral deposits in Pelly Mountains and adjacent Yukon Plateau.	Tempelman-Kluit, DJ	REG	CPM	GR	Yk	105 A, F, G, H	2421
730039	Sloan River map-area (86K), District of Mackenzie Obj: (1) To establish the stratigraphic and intrusive relations of the Aphebian plutonic, volcanic, and sedimentary rocks; (2) to rationalize observed variations in chemistry, mineralogy, texture and hydrothermal alternation (including mineralization) of the igneous rocks in the form of genetic models of epizonal plutonism and volcanism; (3) to reconstruct the magmatic and structural history in light of its location in the internal part of the Coronation Geosyncline; (4) to ascertain modalities in the evolution of the crust by comparing the area with older and younger volcano-plutonic belts; (5) to provide a descriptive and conceptual framework for assessment of the mineral resources of the area.	Hoffman, PF	REG	P	BS	Mack	86 K	2412
730040	Archean volcanic studies in the Slave-Bear Province 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.	Lambert, MB	REG	P	BS	Mack	76 B, C, F, G	2421

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
730041	Calder River map-area, (86F) District of Mackenzie Obj: (1) To define the stratigraphic and relative age relations of Aphebian (Snare, Cameron Echo Bay (Groups) sedimentary rocks and associated Aphebian plutonic rocks; (2) to determine the nature and environment of the volcanogenic-plutonic complex of the western Bear Province; (3) to define the various tectonic environments present in the Bear Province and to place them in the context of the Coronation geosyncline and its associated Aphebian orogen; (4) to develop models of relationship of mineral deposits with tectonic, plutonic and supercrustal history thereby providing data for resource assessment and exploration.	McGlynn, JC	REG	P	BS	Mack	86 F	2412
730043	Volcanic rocks of the Appalachian region Obj: To determine the physical volcanology, petrology, chemistry, environment, age and tectonic relations of the volcanic rocks of the Appalachian Orogen in order to relate them to the evolution of the orogen and to the formation of associated mineral deposits.	Bostock, HH	REG	CS	A	NB NS Nfld	Pts 2 E/12, 5; 12 H	2421
730044 *	Granite studies in the Appalachians Obj: (1) To establish a set of criteria based on field, petrographic and chemical observations, by which granitoid rocks in the Appalachian region can be assigned to a limited number of well defined classes; (2) to establish the physical conditions of emplacement, fractionation trends, solidification history, and subsequent deformation of each of these classes; (3) to relate these classes to the tectonic development of the Appalachian region; (4) to evaluate the economic possibilities of each class, and possible factors enhancing these possibilities.	Currie, KL	REG	CS	Pet	NS Nfld NB	2 E; 12 E 21 G, H	2421
730046 *	Geochronological research and control studies Obj: To precisely establish the chronological order of rocks and events, thereby providing the fourth dimension -- time--to geological mapping.	Wanless, RK	REG	CS	G	Yk Mack Kee Man Frank BC Ont	27 A, B; 55 M, N; 56 C, D; 66 A; 65 C, O, K	2432
730047 *	Development of techniques for geochronological studies Obj: To develop methods and apparatus required to remain at the forefront of geochronological research and applications.	Wanless, RK	REG	CS	G	-	-	2432
730051 *	Completion of reconnaissance geology, northern Ellesmere Island Obj: To prepare terminal reports accompanied by maps of the region at the scale of 1:250,000 or more detailed.	Trettin, HP	ISPG	RG	AI	Frank	340 A-H; 120 C-H; 49 H; 560 D, E	2412

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
730054	Comparative Study of Campbell, White and Barn Uplifts Obj: The definition of Campbell, White and Barn Uplifts in terms of their stratigraphic framework, Structural style and evolutionary history.	Dyke, L D	TS	-	GP	Yk Mack	117 A, 116 P	2421
730055	Comparative field seminar – structural prototypes Obj: The objective is to familiarize the participants with the types of observations that may characterize specific models of structures to enable the participants to both recognize such features and to critically evaluate the models proposed.	Taylor, GC	ISPG	RG	-	-	-	2421
730057*	Helikian and Hadrynian stratigraphy Eastern Cordillera and Interior Platform Obj: Firstly, to establish a coherent picture of Helikian and Hadrynian events in western and northwestern Canada, and secondly, to emphasize study of those events that may have created exploitable mineral and/or hydrocarbon deposits.	Aitken, JD	ISPG	RG	M	Mack Yk	95 L, M; 105 P; 106 A, B, C, F, G, H	2421
730060	Mineralogy and Chemistry of fine-grained rocks in central Sverdrup Basin Obj: To compare the clay mineralogy and inorganic geochemistry of the same formation from outcrop samples and from subsurface samples.	Foscolos, AE	ISPG	E	GC	Frank	59 E; 69 E, F; 79 B, C	2435
730062	Development of extraction, identification and correlation systems for organic compounds from sedimentary rocks and crude oils Obj: (1) 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 correlations (2) 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.	Snowdon, LR	ISPG	E	GC	-	-	2461
730063	An automated system for petrologic analysis of metamorphic mineral assemblages Obj: To develop a set of computer programs to expedite the analysis of metamorphic mineral assemblages.	Gordon, TM	REG	CS	Pet	-	-	2436
730065	Petrological study of the Tertiary coals and associated clastic rocks of the Ravenscrag and Frenchman formations, Saskatchewan Obj: To give a biostratigraphic support to the Saskatchewan lignite project.	Sweet, AR	ISPG	P	MIP	Sask	72 F, G, H; 62 E, F	2462

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept/Classification
730067	Geothermal Energy Resources in Canada 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.	Souther, JG	REG	CPM	GR	BC	92 J	2464
730072*	Bedrock and surficial geology-Grand Banks Obj: To contribute to our knowledge and understanding of the surface and subsurface geology, geologic history, and broad tectonic setting of the Grand Banks; and to aid in the economic evaluation of the region.	King, LH	AGC	RR	SBG	Nfld	<u>1, 2, 11</u>	2414
730081*	East coast Offshore surveys Obj: A detailed, systematic mapping of hydrographic and geophysical parameters on the continental shelf and margin off the Canadian east coast. (a) To measure and describe the sea floor topography and the gravity and magnetic fields in the offshore; (b) to define the broad patterns of sediment composition and distributions; (c) to disseminate this information through a variety of media; charts, reports, digital magnetic tape files, publications, etc.	Folinsbee, RA	AGC	RR	GPS	-	-	2414
730085	Classification of dinocysts Obj: 1) A revised generic and specific index. 2) A generic key. A study of provincialism in fossil dinocysts. Examination of extant cyst populations of continental shelves.	Williams, GL	AGC	EPG	SS	-	-	2431
730160*	Paleomagnetism of the Circum-Ungava Belt Obj: To determine: (1) whether the curved nature of the belt is due to differential rotation and, if so, to movements of parts of the Shield (i.e. Churchill and Superior Provinces) and (2) to arrive at time-stratigraphic correlations between various parts of the Belt.	Schwarz, EJ	REG	P	P Mag	Ont Que	<u>23, 24, 33, 34, 43</u>	2434
740003	Geological interpretation of geophysical data as an aid to basin synthesis and hydrocarbon inventory Obj: To define the geologic structure and history of the sedimentary basins in the offshore regions of Eastern Canada.	Grant, AG	AGC	EPG	RSBS	Nfld Frank	1-16, 27, 28, 38,39	2417
740004	Biostratigraphic history of the Mesozoic-Cenozoic sediments of the Grand Banks, Northeast Newfoundland and Labrador Shelves (based on Foraminifera and Ostracoda) Obj: To establish and maintain a comprehensive biostratigraphic and depositional environmental framework of the Mesozoic-Cenozoic sediments of Grand Banks and Labrador. Utilize North Atlantic Basin control to more clearly establish the relationship of the Eastern Canadian margin.	Gradstein, FM	AGC	EPG	SS	NS Nfld	1, 2, 3, 11, 12	2431



Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
740016	Geology of the Island Lake map-area (53 E), Manitoba and Ontario Obj: To establish the geology of the intrusive, extrusive and sedimentary rocks of the map-area, and provide a tectonic synthesis suitable for resource evaluation.	Herd, R K	REG	CS	A	Man Ont	53 E	2421
740017	Metamorphism in the Canadian Shield Obj: To provide suitable maps and studies on metamorphism of the Shield which will focus on this parameter in such a way as to make a unique contribution to the understanding of the development of the Shields; and to provide regional and local information on metamorphic grade and history which will be of use in evaluating mineral resource potential of the Canadian Shield.	Fraser, J A	REG	P	NC	Que, Ont Man Sask Nfld, Mack Frank Kee	-	2421
740019	Archean felsic volcanic complex near Regan Lake, District of Mackenzie, NWT Obj: (1) To map in detail the felsic volcanic belt; (2) to establish criteria for the identification and interpretation of metamorphosed felsic volcanic in the Slave Provinces; (3) to establish a model for the history, environment and processes of volcanism that relate to this part of the Slave Province to provide a basis for resource exploration in this area.	Lambert, M B	REG	P	BS	Mack	Pts of 76 B, C, F, G	2421
740020	Geology of the Foxe Fold belt, Baffin Island, District of Franklin Obj: To establish the stratigraphy, structure and metamorphism of the Aphebian sedimentary, volcanic and plutonic rocks in the Piling Group and their relationship to the rocks of the Mary River Group. The structural evolution of Archean "gneiss domes" in the area is also to be studied, and the economic mineral resource potential of the region evaluated.	Morgan, W C	REG	P	NC	Frank	27 pts A, B, C; 37 A, pts C, D, Pts. of 25 H	2421
740030	Boothia Peninsula and Somerset Island (Operation Boothia) Obj: To improve the understanding of the stratigraphy and structure of the region, which is a key area for information in both of these fields. The purpose is two fold: (1) to aid in evaluation of the resource potential, particularly petroleum and base metals, of this part of the North; and (2) to provide background knowledge and maps to assist in future natural gas pipeline construction.	Kerr, J W	ISPG	RG	AI	Frank	57 B, C, F, G; 58 C, D	2412
740035	Petroleum Exploration Analog Study Obj: To study the geological setting and characteristics of hydrocarbon accumulations on a world wide basis to establish valid analog and their attendant parameters that may be applicable to the Canadian basins. This will help in the evaluation and understanding of the petroleum potential of Canada.	Procter, R M	ISPG	E	PR	-	-	311

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
740041	Comparative studies of geological types Obj: To examine field occurrences of local geological phenomena in order to familiarize the staff of the Institute with the local geology and the interpretation thereof, so that general principles so elucidated may inform and communicate the role of the Institute to all levels of staff.	Taylor, G C	ISPG	RG	-	Alta	-	2421
740042	GSC Workshop travel - Micropaleontology Section 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.	Wall JH	ISPG	P	MIP	-	-	2431
740054	Geological variability of marine deposits, Ottawa-St. Lawrence Lowland Obj: To evaluate the stratigraphic, geomorphic and historical factors affecting the natural and engineering behaviour of marine clays, with special reference to landslides.	Gadd, NR	TS	-	RP	Ont, Que	31 G,F	2453
740062*	Fraser Delta sedimentation 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.	Luternauer, JL	REG	CPM	MG	BC	92 G	244
740065	Surficial geology inventory, Banks 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: (a) aid in the implementation of the Territorial Land Use Regulations; (b) be pertinent to engineering construction, petroleum exploration and related activities; (c) provide data relative to terrain sensitivity rating; and (d) elucidate the Quaternary history of the region.	Vincent, J-S	TS	-	RP	Frank	88 B,C,D,F; 97 G,H; 98 A-F	2413
740067	Surficial geology-terrain inventory, Bathurst-Cornwallis and eastern Melville Islands 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.	Edlund, SA	TS	-	RP	Frank	68 E-H; 69 A,B; 78 E-H; 79 A,B	2413
740068	Surficial geology, Ottawa Valley lowlands 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.	Richard, SH	TS	-	RP	Ont, Que	31 B,F,G	2413

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classi- fication
740072	Surficial geology of Newfoundland  Obj: To map, 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.	Grant, DR	TS	-	RP	Nfld	1; 2 D; 11; 12 A	2413
740081*	Environmental Geochemistry  Obj: (1) To understand the nature of physical and chemical processes which influence the dispersion of elements in the surface environment. (2) To coordinate Section activities relating to environmental matters. (3) To provide appropriate surficial and lithochemical support to the Nahanni IMPP and its objectives.	Jonasson, IR	GG	RIE	GC	Ont, Que Frank Mack Yk BC NB NS	31 B-P; 21 A, I, P, H, L; 11 F, K; 74 H, J; 64 E, L; 82 F, G; 94 F, G; 104 N; 105 A, B, C, F-K, O, P; 106 A-C, E, F; 116 G; 117 A, B	2451
740084	Silurian-Ordovician macro-biostratigraphy of Anticosti Island, Quebec  Obj: To obtain data on the Silurian and Ordovician rocks of Anticosti Island, St. Lawrence platform and Maritime regions to provide: (1) precise descriptions for all appropriate stratigraphic units of their succession, thickness, lithology, facies change, faunal content; (2) descriptions of significant fauna for each stratigraphic unit; and (3) local and regional correlations consistent with the data.	Bolton, TE	DGO	-	SP	Que, NB NS Ont	22 H; 12 E, F, L; 18; 22 A, B; 11 F; 45, 46; 31 G, H	2431
740085*	Borehole Geophysics (Nuclear Techniques)  Obj: To contribute to geophysical exploration technology by maximizing the useful information obtained from boreholes by: (1) investigation, implementation and evaluation of new developments and improvements in nuclear borehole logging, and (2) establishment of calibration and standardization as a routine procedure in nuclear logging operations.	Killeen, PG	GG	RIE	RM	BC Alta Sask Ont Que NB	21 I, G; 11 D; 12 L; 31 F, G; 30 M; 41 I, J; 82 O, E, G; 74 N	2463
740090	Palynological study of the Shell Anglo Harlequin D-86, Murrelet L-15, Auklet G-14, and Osprey D-36 wells, offshore British Columbia  Obj: To establish preliminary biostratigraphic subdivision of the offshore continental Tertiary and to tie the palynological subdivisions into the marine foraminiferal zones that have been established farther south.	Hopkins, WS, Jr	ISPG	P	MIP	BC	102 O; 103 B	2431

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
740091*	Borehole Geophysics (Electrical and Magnetic Techniques)	Dyck, AV	REG	TG	EM	BC Ont Que NB Man	92 I; 82 B; 41 I/5,6; 21 P/5; 32 D/7; E; 31 F/7; K; 52 L/4; 62 I	2465
	Obj: (1) To improve and develop instrumentation, methods of operation and interpretation aids for the electric and magnetic methods of exploration geophysics for use in boreholes. (2) To investigate the application of these methods to problems of mineral exploration and geological mapping. (3) To include techniques for measurement of rock properties in situ.							
740092	Geology of the Bathurst Inlet Area	Campbell, F HA	REG	P	BS	Frank Mack	76 J (W1/2), K (E1/2); pts. 76 E, G, O, N, L; 77 A, B; 86 H	2421
	Obj: To establish the geology of the intrusive, extrusive and sedimentary rocks of the map-area; to compile a detailed stratigraphic-sedimentological analysis of the Goulburn Group and related overlying rocks; to relate the Goulburn Group to other depositional sequences in the Coronation Geosyncline.							
740095*	Quaternary geology - terrain inventory, Kananaskis Lakes	Jackson, LE	TS	-	GP	Alta BC	82 J	2413
	Obj: To map, describe, and explain the unconsolidated deposits and the landforms and their susceptibility to modern processes in order to provide areal knowledge of surficial geology and terrain as background information relative to mineral exploration and exploitation, land use planning, forestry, agriculture, urban and industrial development and various aspects of engineering construction and to determine the Quaternary history of the area.							
740098*	Metallurgy of the northern Canadian Cordillera	Dawson, KM	REG	EG	MDG	BC Yk Mack	94, 95, 96, 104, 105, 106, 114, 115, 116, 117	2465
	Obj: To integrate present mineral commodity and regional geological studies in order to: (1) examine the large scale geological controls and distribution of known mineral deposits; (2) assist in planning of future geological mapping; (3) assess the area with regard to its mineral potential.							
740100	Preparation of popular earth science education literature	Copeland, MJ	REG	CS	EP	-	-	248
	Obj: To present to the Canadian public, particularly students, information dealing with earth science topics of general interest and of educational importance.							
740104*	Paleomagnetism of Proterozoic to Devonian Strata across Boothia Arch	Fahrig, WF	REG	P	-	Frank	48 A, D; 58; 68	2434
	Obj: To measure the paleomagnetism of Upper Proterozoic, Ordovician, Silurian and Devonian strata across the Boothia Arch to determine the paleolatitude, whether these strata have been shifted relative to the North America Craton, and to contribute information on the North American polar wandering curve.							

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
740106*	Geological assistance with provincial coal drilling project in Nova Scotia Obj: In co-operation with provincial authorities to prepare an inventory of remaining coal resources in Nova Scotia.	Hacquebard, P A	AGC	EPG	-	<u>NS</u>	<u>11, 21</u>	296
740107*	Trace elements in sulphides Obj: (1) To determine the typical contents and ranges of trace elements, including metals, metalloids and non-metals in ores and ore minerals. (2) To assess the value of such data with regard to classification of ores, estimation of ore reserves of rare elements, definition of geochemical and metallogenic provinces, establishment of environment baseline levels.	Jonasson, IR	REG	RIE	GC	<u>Yk Ont</u> <u>NS BC</u>	<u>31 A,B,O,P; 11 F,K;</u> <u>82 F.G; 94 F.G; 104 N;</u> <u>105 A,B,C,F-K,O,P;</u> <u>106 A-C, E,F; 116 G;</u> <u>117 A,B</u>	2465
740110	Carboniferous and Triassic strata of Appalachian region Obj: To determine the stratigraphy, sedimentology, variations in facies and external and internal basinal geometry of the Middle Devonian to Triassic strata; to reconstruct the tectonic development, provenance, current direction and environment of deposition; and to determine the distribution, controls and origin of the associated mineral deposits, all with a view to elucidating the mineral resource potential.	Geldsetzer, HHJ	REG	CS	A	Nfld NS PEI NB Que	1; 11 D, E, F, G, J, K, N, O; 21 A, H; 12 A, B, H; 22	2421
750001*	A geophysical investigation of the submarine extension of geological zonation of Newfoundland Obj: An interpretation of the offshore extension of the zonation of Newfoundland, to include (1) tracing offshore all recognizable onshore features; (2) building a developmental model for the tectonic pattern observed; (3) assessing the compatibility of that model with others proposed for the same and adjacent regions.	Haworth, RT	AGC	RR	GPS	-	-	2417
750004	Geology of the Tulemalu Lake map-area Obj: To interpret the Precambrian geology of the area to modern 4-mile standards and to interpret the economic potential of the area.	Eade, KE	REG	P	NC	Kee	65 J	2421
750005	MacQuoid Lake (W 1/2), Thirty Mile Lake (E 1/2) Map-Areas Obj: To interpret the geology and mineral potential of the Precambrian rocks of the area to a standard of 1:250,000 mapping.	LeCheminant, AN	REG	P	NC	Kee	55 M w/ 1/2; 65 P e/ 1/2	2412

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
750007*	Correlation and geochronological studies in the Canadian Shield  Obj: To identify, date and correlate depositional, thermal and orogenic events within the various provinces of the Canadian Shield. To integrate Shield province histories. To extend and improve the present scheme of Precambrian time-classifications.	Frarey, MJ	REG	P	SP	Ont Man Que	<u>41 H/14, I/3</u>	2421
750008	Geology of Nose Lake and Beechey Lake  Obj: To establish the geology of the intrusive, extrusive and sedimentary rocks of the area, to provide a base for mineral prospecting, and to correlate geophysical and geochemical patterns and anomalies to the geological and mineral deposit data.	Frith, RA	REG	P	BS	Mack	76 F (E½); 76 G (W½)	2412
750010*	Geology of Uranium and Thorium Resources in Canada  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; (3) provide advice to government for nuclear energy policy and related matters.	Ruzicka, V	REG	EG	URE	Ont Que NB NS PEI NFLd Kee Sask Man Mack Frank	<u>41 I,J,P; 42 D,J;</u> <u>51 K-N; 31 C-F; 33 F;</u> <u>13 I-K; 66 H; 65 H;</u> <u>52-53; 74 J-P; 64 K-N;</u> <u>21, 82, 92, 103</u>	313
750011	Geology, petrology and economic potential of the anorthosite suite in southern Labrador  Obj: (1) Comparison of rock types, rock and mineral chemistry, and structures with similar features north of the Grenville Front; (2) Estimation of the grade of regional metamorphism in this part of Grenville Province, (3) Determination of age of the anorthosite suite of rocks; (4) Investigation of the economic mineral potential of the anorthositic rocks.	Emslie, RF	REG	CS	Pet	NFLd	13 B, C, E, F, G	2421
750014	Stratigraphy and sedimentation of the Proterozoic Rapitan Group and related rocks, Mackenzie Wernecke and Ogilvie Mountains  Obj: To determine sedimentology, structural framework and metallogenic significance of the various facies of Hadrynian clastic successions to derive a qualitative model of relative mineral potential in Mackenzie, Wernecke and Ogilvie Mountains.	Eisbacher, GH	REG	CPM	GR	BC Mack Yk	95 L, M; 105 P; <u>106 A,</u> <u>B, C, D, E, F</u>	2421
750015*	Stratigraphy of the Takla Group, northwestern B.C.  Obj: To determine the sedimentology, stratigraphy, structural style, and metallogeny of the Lower Mesozoic rocks as a basis for evaluating the tectonic evolution and the relationship of the metal deposits to stratigraphy.	Monger, JWH	REG	CPM	GR	BC Yk	94 C, D, E; <u>104 B, G,</u> <u>H, I, J, K; 105 D; 115 A</u>	2421
750017	Stratigraphy and correlation, lower Paleozoic subsurface  Obj: (1) Comparison and correlation of different sets of nomenclature; (2) Outline of regional facies changes and paleogeography; (3) Outline areas with hydrocarbon potential in lower Paleozoic rocks.	Mayr, U	ISP	RG	AI	Frank	49 C; 58 D-H; 68 D, E, G, H; 78 E-H; 88 E-H; 89 B, C	2421

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
750018	Stratigraphic and sedimentological studies of Lower Cretaceous rocks, Rocky Mountain Foothills and Front Ranges, Alberta and British Columbia  Obj: To describe the Lower Cretaceous stratigraphic succession, to collect samples for laboratory studies, and to collect fossil flora and fauna; to provide data on the distribution and continuity of coal seams throughout the region; to attempt to determine criteria useful in determining the sub-environments in which deltaic sediments were deposited; and to eventually provide a regional geological model that will be of assistance in determining the potential coal resources of these and other regions.	Gibson, D W	ISPG	CG	CG	BC Alta	82 G,J,0; 83 C	2462
750019	Structure and stratigraphy of Paleozoic and lower Mesozoic rocks in Halfway River Map-area, Northeastern British Columbia  Obj: To revise Halfway River map-area (94B) at 1:250 000 scale (including subdivision of Triassic strata); to map 94 B/3, 4, 5, 6, 11, 12, 13, 14 at 1:50 000 scale and to study in detail the structure and stratigraphy of this area and its relation to adjacent areas; to determine the regional stratigraphic and structural setting of Pb-Zn mineralization in the area; to help develop models for the stratigraphic and structural evolution of this portion of the Rocky Mountains.	Thompson, R I	ISPG	RG	M	BC	94 B	2421
750020	Carboniferous biostratigraphy in the northern Yukon, British Columbia, and Alaska  Obj: To extend the Carboniferous biostratigraphy of the Sverdrup-Basin, utilizing ammonoids, into northern Yukon, Alaska, Alberta and British Columbia in order to better interpret regional stratigraphy and paleoenvironments.	Nassichuk, W W	ISPG	P	MaP	Yk BC	116 H,I; 92 F	2431
750021	Development of programs for Kremp File and Dinofile GSC palynological data files  Obj: Assist in the development and execution of the Kremp and other palynological computer files.	Hopkins, W S	ISPG	P	MiP	-	-	2431
750023	Methodology of petroleum resource evaluation  Obj: To provide a reliable, realistic, statistically valid methodology for estimation of resource abundance.	Recruit	ISPG	E	PR	-	-	311
750024	Petroleum geology of Tertiary, Mesozoic and Paleozoic strata north of 70°  Obj: To provide a reliable and adequate data base for assessment by the Energy Subcommittee of the area's hydrocarbon potential and to document proven and potential hydrocarbon occurrences in the area.	Recruit	ISPG	E	PR	Frank	37-39; 47-49; 57-59; 67-69; 77-79; 87-89; 97-99; 120; 340; 560	2461

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
750025	Petroleum Geology of Tertiary, Mesozoic and Paleozoic north of 68° on the NWT and Yukon mainland and offshore Obj: To provide a reliable and adequate data base for assessment by the Geological Potential Subcommittee of the area's hydrocarbon potential and to document proven and potential hydrocarbon occurrences in the area.	Koch, NG	ISPG	E	PR	Mack, Yk	97, 107, 117	2461
750027	Diagenesis of organic matter and clay minerals in sediments in relation of petroleum generation Obj: To correlate the various methods of determining the diagenesis of sediments in relation to oil and gas potential so that the accuracy of each can be determined. To define the ranges in which petroleum generation can be expected in each method. To examine the relationship between clay diagenesis, oil migration and cementation of petroleum reservoirs.	Powell, TG	ISPG	E	GC	Frank, Mack BC	94 M,N; 107 E; 97 B,C 72 M; 73 D,E; 82 P; 83 A,B,G,H	2461
750031*	Aeromagnetic Surveys: General Obj: To provide general support services for the GSC aeromagnetic survey program and those overseas aeromagnetic surveys undertaken on behalf of and funded by CIDA.	Hood, PJ	RG	RG	CS	-	-	2416
750032	Digital Compilation Software Development Obj: To improve the computational and user efficiency and increase the generality of software for the compilation and mapping of aerogeophysical data.	Holroyd, MT	REG	RG	GDP	-	-	2416
750034*	Mineralogy of nickel deposits in serpentinized ultramafic rocks Obj: To supplement the study of the geology of nickel deposits by carrying out comprehensive research on the mineralogy and petrology of serpentinized ultramafic rocks known to contain low grade nickel deposits.	Duke, JM	REG	EG	MDG	Que Ont Man	31 E,I; 32 C,D; 52 B 21 E; 63 D; 64 C; 42 A	2465
750035*	Biostratigraphic study of Mesozoic rocks in the Intermontane and Insular Belts of the Canadian Cordillera Obj: To determine the biostratigraphic succession of the Mesozoic strata, particularly Jurassic, and to define a geological history and paleogeography in the evolution of the Mesozoic model.	Tipper, HW	REG	CPM	GR	BC, Yk	92 H,L; 93 E; 94 D; 103 C,F,G; 104 H-K; 105, 115	2421
750036	Silurian and Devonian spores of Canada Obj: To refine palynological methods of dating and correlating Silurian and Devonian rocks of Canada, by (a) identifying and describing Silurian and Devonian spores, (b) determining their value in terms of regional and world wide biostratigraphy and (c) establishing stratigraphic reference sections and zonations for spores in Silurian and Devonian sedimentary basins in Canada.	McGregor, DC	REG	CS	EP	Atla NS	-	2431



Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Classification
750037*	Radar Sounding for Geological Mapping Obj: To develop radar sounding methods for applications to surficial and engineering geology using surface and borehole techniques.	Davis, JL	RGG	TG	EM	Ont Man	31 K/3; 52 L/4, 62 I/1	2435
750038*	Pleistocene-Holocene Basin sedimentation Obj: (1) Describe the Pleistocene-Holocene sedimentary history of the continental shelves of eastern Canada using paleontological and geochemical evidence of sedimentary basins. (2) Improve the understanding of the genesis of gaseous hydrocarbons in sediments. (3) Establish geological environments favorable for the preservation of microfossils.	Vilks, G	AGC	EMG	PEC	NS	21 B	244
750039	Geochemical Data Systems Obj: To provide a liaison between the available data processing facilities and scientists within the geochemistry sub-division to design, implement and document systems to facilitate the expeditious computer processing of machine readable geochemical data, and to manage the archiving of such data.	Ellwood, DJ	RGG	RGC	MD	-	-	2465
750040	Uranium Reconnaissance Program (Gamma-Ray Spectrometry) Obj: To provide for industry high quality reconnaissance exploration data to indicate areas of highest potential for new uranium deposits, and to provide for government nationally consistent systematic data to serve as basis for uranium resource appraisal.	Carson, JM	RGG	RIE	RM	-	-	2463
750043*	Consulting advice on conservation and restoration of coastal environments Obj: To provide consultation and expertise on environmental problems in the coastal zone of the Maritimes. This advice is to be provided in response to specific requests.	Reinson, GE	AGC	EMG	GCD	-	-	296
750045	Late Cenozoic Paleooceanography of the Labrador Sea Obj: Study of Hudson cores will provide information on detailed paleoclimatic fluctuations over the 100,000 to 200,000 years of Late Pleistocene-Recent sedimentation. Detailed knowledge of past changes in climate, glaciation and ocean circulation is useful for achieving several major goals. It will permit stratigraphic correlation to be made with areas outside the Labrador Sea. Stratigraphic correlation between the deep sea and the continent. To define the time sequence of glacial climatic and eustatic events on the Labrador Shelf.	Fillon, RH	AGC	RR	LSS	-	-	2422
750046	Geochemical transformations and reactions of organic compounds in recent marine sediments Obj: a) To determine the influence of depositional environment in the quantitative and qualitative distribution of organic compounds so as to decipher the physical and chemical history of sedimentation. b) To isolate, identify and characterize various chemo-taxonomic constituents so as to develop guide lines for the interpretations of major geological events. c) To determine and correlate early diagenetic transformations with long-term diagenesis resulting in the evaluation of oil and gas. d) To understand the role and influence of organic compounds on solubility, mobility and recycling of trace metals. e) To collect and compile geochemical data on sedimentary organic matter to write a book for the benefit of geologists, geochemists and other disciplines related to organic geochemistry.	Rashid, MA	AGC	EMG	OGC	-	-	244

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
750048	Multidisciplinary environmental marine geological analysis of the Miramichi Estuary and Bay Obj: To examine, understand and portray the links between physical, biological and chemical processes in the marine geological setting of a coastal environment; to compile this information in a format which provides a basis for environmental assessment and planning of resource development; to develop interdisciplinary research methods which contribute to improved scientific methods and technology.	Buckley, DE	AGC	EMG		NB	21 P	244
750049	Miliken Lake - Goldfields mining area, Saskatchewan Obj: To fill in gaps outstanding in map-coverage of the Beaverlodge uranium area.	Davison, WL	REG	P	SG	Sask	74 N	2421
750051*	National geochemical reconnaissance Obj: To provide for industry high quality, multi-element, reconnaissance exploration data to indicate areas of highest potential for uranium and other mineral commodities; to provide governments with nationally consistent, systematic data to assist in resource appraisal for uranium and other minerals; to provide information on the natural abundance of elements, including toxic elements, in the environment.	Hornbrook, EHW	GGG	RIE	GC	NB NS Nfld Ont Sask BC Yk Frank	Pts 1-16; 23; 27; 37; 41; 42; 52 A, B; 74 J; 104; 105; 117	2463
750053	EDP systems and applications Obj: To carry out or supervise the design, development and documentation of various computer software for use by the division or branch, in order to efficiently and fully utilize the available computer facilities.	Holroyd, MT	GGG	RG	DC	-	-	2463
750055*	Structural studies in the Mackenzie Arc, Franklin and Coleville Hills Obj: To conduct detailed examinations of typical structures and thus obtain a clearer understanding of the geometry and kinematics of deformation within the study area. To remap those areas within the Mackenzie Arc and Franklin Mountains that are considered to have been inadequately mapped in initial reconnaissance stages.	Cook, DG	ISPG	RG	M	Yk Mack	82 N, O; 94 N; 96; 106 A, B; 95 C, K, L, M, N; 105 P	2421
750057	Stratigraphically important cystimorph corals from the Lower Devonian of western Canada Obj: The project will describe stratigraphically important cystimorphs from the Lower Devonian of the Yukon and also will provide new interpretations of related forms from Ontario, Tasmania and Gotland. The Yukon forms are expected to be important biostratigraphically for the Lower Devonian of that region.	Pedder, AEH	ISPG	P	MaP	-	-	2431

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
750058*	Geology of Uranium Resources of Canada-2  Obj: To carry out comprehensive research on the geology of uranium deposits in order to: (1) support or provide geologically based estimates for Canada's uranium resources; (2) provide guidelines for their discovery; (3) provide advice to government for uranium policy and related matters.	Tremblay, LP	REG	EG	URE	Sask Que	31 J, K, 12 K, L; 32 I, P; 64 L; 74 A-P; 24 B, C, F, G, K; 23 J	313
750059	Mineralogical research on Rabbit Lake uranium deposit, Saskatchewan  Obj: To develop research procedures for study of complex uranium deposits at Rabbit Lake which could be applied to other Precambrian deposits in Saskatchewan and elsewhere in the Canadian Shield.	Rimsaite, JYH	REG	EG	URE	Sask	64 L, 74 N	2463
750061*	Lower Paleozoic geology of Eastern Canada  Obj: (1) To continue detailed and regional studies of Lower Paleozoic terrain of eastern Canada, i) in northern and eastern offshore regions, reconnaissance mapping on an opportunity basis and ii) 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 the frontier basins.	Sanford, BV	REG	CS	A	Ont Que	31 F, G	2421
750063*	Quaternary geochronology, Arctic Islands  Obj: (1) To establish a chronostratigraphic framework for Quaternary time in the Arctic Archipelago. (2) To investigate the suitability of other methods of age determinations, especially those beyond the range of <sup>14</sup> C. (3) To determine rates of crustal movement. (4) To reconstruct environments and events for as much of Quaternary time as possible.	Blake, W, JR	TS	-	PG	Frank	25-28; 29 F; 35-38; 39 B, C, E-H; 47-48; 49 A, B, D, E; 57-59; 67-69; 77-79; 87-89; 97-99; 120; 340; 560	2433
750064	Regional synthesis, southern Superior Province and eastern Southern Province, Project I  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 syntheses; and to have a designated "expert" who will be thoroughly familiar with the geological data and economic aspects of the region.	Frarey, MJ	REG	P	SP	Ont Que	31, 32, 41, 42	2421

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
750067*	Mesozoic biostratigraphy and Jurassic paleontology of Northern Yukon and adjacent District of Mackenzie  Obj: A detailed and comprehensive biostratigraphic, lithostratigraphic, paleoecologic, and paleogeographic scheme of the Triassic to Lower Oxfordian (Upper Jurassic) rocks of the Yukon Territory north of 65°N, and adjacent areas of District of Mackenzie, and a rigorous description of the most important faunal elements of the Jurassic.	Poulton, TP	ISPG	P	MaP	Yk Mack	106 M, L; 116 N, O, P, K, J, F, G; 107 A, B, C, D; 117 A, B	2431
750069*	Geology of uranium resources of Canada 3  Obj: To carry out comprehensive research on the geology of uranium deposits in sedimentary basins in Canada west of the Canadian Shield in order to: (1) provide or support geologically based estimates of Canada's uranium resources; (2) provide guidelines for discovery of deposits; (3) provide advice to government for uranium policy and related matters.	Bell, RT	REG	EG	URE	BC Yk Mack Alta Sask Man	82-83; 92-95; 104-106; 114-117	313
750070*	Synthesis of Quaternary geology, Great Plains of Canada  Obj: To coordinate and oversee publication of a project to synthesize present knowledge of the Quaternary of the Great Plains of Canada, including surficial deposits, geomorphology, historical geology, chronology and stratigraphy, invertebrate and vertebrate paleontology, tephra, soils, pollen, archeology.	Stalker, AM	TS	-	RP	BC Alta Sask Man	62, 63, 64, 72, 73, 74, 82, 83, 84, 93, 94	2422
750071*	Quaternary geology-terrain inventory, Boothia Peninsula northeast Keewatin, and Somerset and Prince of Wales Islands  Obj: To map, describe, and explain the unconsolidated deposits, landforms, permafrost, ground ice and organic cover in order to provide areal knowledge of geology and terrain as background information relative to land use planning and various aspects of engineering construction to gather information pertinent to the Quaternary history of the area.	Dyke, AS	TS	-	RP	Kee Frank	57 A, B, C, D, E, G; 67 E, H; Pts 58 A, B, C, D, F; 68 A-E	2413
750072*	Quaternary geology, terrain inventory, northeastern Manitoba  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.	Dredge, LA	TS	-	RP	Man	54 E, F, K, L, M; 64 I, J, K, L, M, N, O, P	2413
750076	Quaternary geology of the Canadian Cordillera  Obj: To gather and synthesize information regarding Quaternary deposits, stratigraphy, geomorphology and chronology of the Canadian Cordillera.	Fulton, RJ	TS	-	RP	BC Yk Alta, Mack	82-92	2422

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Classification
750077*	Hydraulic, morphologic and morphometric studies of selected rivers along the Mackenzie Highway  Obj: To identify and assess natural change through time in the channel and hydraulic characteristics of selected gravel streams along Mackenzie Highway, and to identify and assess the impact of Mackenzie Highway construction on the channel and hydraulics characteristics of the same rivers.	Egginton, PA	TS	-	SMT	<u>Mack</u>	<u>95 O,J; 96 C,E; 107 B</u>	244
750078	Quaternary geology—terrain inventory, Prince Rupert—Terrace, Smithers area  Obj: To map, describe and explain the unconsolidated deposits and landforms in order to provide area knowledge of geology and terrain as background information relative to forestry, land use planning, urban and industrial development and various aspects of engineering construction and to determine the Quaternary history of the region.	Clague, JJ	TS	-	RP	BC	Pts 93 L, M; 103 F, K, G, I, J, P	2413
750079	Fluvial and mass wasting processes, Banks Island  Obj: To undertake fluvial process studies in northern areas, with supporting studies in southern rivers where data bases are more extensive. Specific topics include long term bank erosion studies, hydraulic and geomorphic variability of homogeneous river reaches, and historical effects on river channel behaviour.	Day, TJ	TS	-	GP	Frank	88, 97, 98	244
750080	Gravel stream beds  Obj: To study the formation of an armour, or surface pavement, on coarse sediment mixtures under known flow conditions, to define the relationships between the imposed hydraulics and parent sediment properties to the morphology, fabric and size distribution of the armour layer, and to evaluate the hydraulic resistance properties of the stabilized channel bed.	Day, TJ	TS	-	GP	-	-	244
750082*	Structural analysis of the Fernie Basin  Obj: To establish a detailed structural model of the Fernie Basin, and in particular to elucidate the structural behaviour of coal as an element of the sedimentary succession as an aid to the evaluation of the coal resources of the Fernie Basin.	Olienshaw, NC	ISPG	CG	CG	<u>BC</u>	<u>Pts 82 G</u>	2462
750083	Mesozoic stratigraphy and Basin analysis of the Western Queen Elizabeth Islands, Arctic Archipelago  Obj: 1. To determine regional stratigraphic relationships within the Mesozoic strata. 2. To determine environments of deposition of the strata. 3. To determine the geologic history of the western Sverdrup Basin during the Mesozoic. 4. To assess the economic potential of the Mesozoic strata.	Embry, AF	ISPG	RG	SM	Frank	69, 78 G, 79, 89 G, 99	2421
750085*	Stratigraphy, sedimentology and diagenesis of Paleozoic rocks in the Mackenzie Mountains and northern Rocky Mountains  Obj: Revision of Silurian, Devonian and Carboniferous stratigraphy of this area leading to an understanding of the regional sedimentologic and tectonic setting. Analysis of diagenetic events that have affected this sequence and how these may have affected mineralization and the production of hydrocarbons.	Morrow, DW	ISPG	RG	M	<u>Yk BC</u> <u>Mack</u>	<u>94; 95 K,L,M,N; 96 C, D,I,P; 105; 106 A,B,G,H</u>	2421

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
750088	Investigations concerning the optical properties of coals and dispersed organic materials 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.	Creaney, S	ISPG	CG	CT	-	-	2462
750089	Planning, directing and coordinating coal resource evaluation programs Obj: To develop and maintain resource evaluation systems for Canadian coal deposits upon which authoritative advice and information can be based, and to perform administrative duties as Head of the Resource Evaluation Section	Latour, BA	ISPG	CG	RE	-	-	312
750092*	Mesozoic stratigraphy and basin analysis of Eastern Sverdrup Basin, Arctic Archipelago Obj: To provide a thorough understanding of the geological history of the Eastern Sverdrup Basin, stressing the inter-relationships of tectonics, sedimentation, biostratigraphy, geochemistry and hydrocarbon distribution. To evaluate the oil and gas potential of the region.	Embry, AF	ISPG	RG	SM	<u>Frank</u>	29; 39; 49 H; 59 H; 69; 79 E, H; 120 F; <u>340 B, D; 560 D</u>	2421
750093	Compilation and evaluation of geologically oriented data on industrial mineral resources of Canada Obj: To marshal and appraise in-house data on industrial minerals; to keep abreast of current activity in the field of industrial minerals for the purposes of improving the bank of technical information; to maintain a watching brief and to detect subjects on which the GSC may expect demands for information and advice.	Moyd, P	REG	EG	-	-	-	2466
750094	Development of computer-based statistical techniques applicable to regional geological and mineral deposit data Obj: Develop and apply statistical techniques as an input to methods for regional resource evaluation of geological data and mineral deposit data	Chung, CF	REG	EG	GM	-	-	412
750096*	To advise the Cape Breton Development Corporation on coal geology for its operation in the Sydney coalfield Obj: To provide geological information as an input in the planning of new mines, and to interpret geological features in present underground workings as an aid to continued mining developments.	Hacquebard, PA	AGC	EPG	-	<u>NS</u>	<u>11 K, G</u>	296

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
750098*	Metallurgy of the southwestern part of the Canadian Shield	Franklin, JM	REG	EG	MDG	Man Sask Ont Frank Kee Mack	<u>42, 43, 52, 53, 54, 62, 63, 64, 73, 74</u>	2465
750099	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.  Regional Synthesis, western Superior Province, northwestern Ontario	Skinner, R	REG	P	-	Ont	52; pts. of 42, 43, 53	2421
750100	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 syntheses; and to have a designated "expert" who will be thoroughly familiar with the geological data and related economic aspects of the region.  Regional Synthesis – Baffin Island Project II	Morgan, WC	REG	P	NC	Frank	Pts 25, 26, 36, 16, 27, 37, 47, 38, 48, 39, 49	2421
750102*	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 syntheses; and to have a designated "expert" who will be thoroughly familiar with the geological data and related economic aspects of the region.  Regional syntheses, southern Keewatin, Project I	Eade, KE	REG	P	NC	<u>Kee</u>	<u>65 C</u>	2421
750103*	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 syntheses; and to have a designated "expert" who will be thoroughly familiar with the geological data and related economic aspects of the region.  Regional Synthesis – Bear and Slave Province, Project 1	Frith, RA	REG	P	BS	<u>Mack</u>	Pts 75, 85; <u>76 F, G, 86 B</u>	2421
750107*	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 syntheses; and to have a designated "expert" who will be thoroughly familiar with the geological data and related aspects of the region.  Acquisition of an ocean bottom seismometer	Barrett, DL	AGC	RR	OBM	-	-	2417
750108*	Obj: To acquire an ocean bottom seismometer for seismic refraction studies of the earth's crust and upper mantle.  Marine surficial geology and sedimentation, British Columbia	Bornhold, BD	REG	CPM	MG	<u>BC</u>	-	2415
	Obj: In order to provide the sedimentological framework and geological perspective for environmental concerns and land mass 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.							

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
750110	Federal-Provincial 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 and specifically in the Non-Renewable Resource Evaluation Program (NREP).	Findlay, DC	REG	EG	-	Man Sask	-	296
760005	Environmental geology of eastern Arctic Coasts  Obj: To investigate and describe central Arctic coasts based on consideration of bedrock stratigraphy and structure, Quaternary deposits and events, physiography and bathymetry, sediment input, sea ice dynamics, ocean tides, currents and waves, and other pertinent factors in order to establish a system for coastal description as baseline information for proposed energy/mineral resource development.	McLaren, P	AGC	EMG	CGD	Frank	48 C-F	244
760008*	Géologie du Quaternaire région de Bathurst-Campbellton, Nouveau Brunswick  Obj: Cartographier, décrire et expliquer les dépôts meubles et formes de terrain, en intégrant des informations reliées à la planification territoriale, l'exploration minérale, la localisation des ressources granulaires, les eaux sous-terraines, la foresterie, le développement urbain et industriel. Le travail final comportera une synthèse de l'histoire quaternaire régionale.	(Gauthier, RC)	TS	-	RP	NB	21 O,P	2413
760010*	Surficial geology, geomorphology and terrain inventory of the Ringnes and adjacent islands  Obj: To map, describe and explain surficial materials, landforms and active processes, in order to provide base data necessary for land management, for engineering studies and to determine the Quaternary history of the region.	Hodgson, DA	TS	-	RP	Frank	59 C,F; 69 C,D,E,F; 79 D,E; pts 59 B	2413
760012	Surficial geology-terrain inventory, north-central Keewatin  Obj: To map, describe and explain the surficial materials, landforms, permafrost and ground ice to provide area knowledge of geology and terrain as background information relevant for land management and engineering studies and to determine the Quaternary history of the area.	Thomas, RD	TS	-	RP	Kee	65 E,F,K,L,M,N; 66 I; pt. 66 H	2413
760014*	Geology of uranium resources of Canada-4  Obj: 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.	Dunsmore, HE	REG	EG	URE	NS NB PEI Nfld Frank	11 D,F,K,L; 21 A,G-J, O,P; 59; 68; 69; 49	313



Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
760015*	Eastern Baffin Island shelf bedrock and surficial geology mapping program 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.	MacLean, B	AGC	RR	EA0	Frank	Pts 15, 16, 17, 25, 26, 27, 28, 38	2414
760018*	Stratigraphy and sedimentology of Blairmore Group and equivalent strata in Alberta and northeastern B.C. Obj: Evaluation of the regional lithostratigraphy and sedimentology of the Blairmore Group with emphasis on the correlation and origin of coal seams and their relationship to associated sediments. The project is being expanded into northeastern British Columbia to include similar studies of the Bullhead Group and Lower Fort St. John.	McLean, JR	ISPG	CG	CG	Alta BC	Pts 83 B, C, E, F, L; 93; 94	2462
760021*	Structure and stratigraphy of western Devon Island and Vendom Fjord map-area, Ellesmere Island Obj: To delineate the stratigraphical and structural history of Devon Island with a view to helping assess the size, grade, mode of occurrence, origin and potential of fuel or mineral deposits that may occur there.	Thorsteinsson, R	ISPG	RG	AI	Frank	48 F, G; 58 F, G, E, H; 59 A; 49 A	2412
760022	Earth science inventory of National Parks Obj: To provide an inventory of earth science data to: a) enable Park planners to design the infrastructure of the parks (e.g. roads, paths, buildings, and water supply) and b) to provide information on interesting scientific aspects of development for visitors.	Cumming, LM	REG	CS	A	NS	21 A; 12 G, H; 22 A; 2M	296
760023	Precambrian geology of south-east Ellesmere, Devon and Cobour Islands Obj: To complete the reconnaissance geological mapping of the northern Churchill Province.	Frisch, T	REG	P	NC	Frank	Pts. 38 B; 39 B-H; 48 E-H; 49 A, B, D, E, H	2411
760024	Keskarrah Bay map-area, District of Mackenzie, NWT 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.	Henderson, JB	REG	P	BS	Mack	86 H/2,3,6,7	2421

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Classification
760025*	Geology of Amer Lake map-area District of Keewatin, NWT Obj: To provide a comprehensive study of the Amer Lake map-area in order to refine and update the 16-mile reconnaissance mapping of that area.	Heywood, W W	REG P		NC	<u>Kee</u>	<u>66 H</u>	2412
760026	Geology of Pembrhyn Foid Belt, Melville Peninsula, NWT Obj: To determine the structural, metamorphic, stratigraphic and age relations between basement gneisses and migmatites, and the covering Pembrhyn 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.	Okuitch, A V	REG CS	Pet		Frank	46 O,P; 47 A	2421
760027	Redbed sequences in Canada Obj: To determine the origin and sedimentological and tectonic processes that yield redbed sequences; to determine the influences of climate, topography, weathering, sedimentation and diagenesis on their origin; and to determine the processes which contribute to the concentration of economic minerals in redbed sequences.	Chandler, F W	REG CS	A		-	-	2421
760028	The geology of southeast Baker Lake, NWT Obj: To provide information on the origin and relationships of a heterogeneous group of plutonic and metamorphic rocks.	Schau, M	REG P	NC		Kee	56 C,D	2421
760029*	Huntec Seabed Project Obj: Development and application of high resolution vertical incident acoustic reflection data for the quantitative classification of marine sediments.	King, L H	AGC RR	SBG		-	-	2415
760030	Surficial geology and paleogeology of Saglek Bank, Labrador Shelf Obj: To understand recent sedimentary processes and hydrodynamic regime, and iceberg movement across bank; to learn pattern of glacial movement across onto bank and history of sedimentary processes (post-glacial); to delineate separate phases of glacial cycles as recorded in cross sectional structure; to relate findings to glacial history of Canada, and findings to worldwide glacial-deglacial cycle; to relate findings to the problem of whether an ice sheet-ice shelf complex ever existed in Baffin Bay-Labrador Sea and when, and to paleo-oceanography of Labrador Sea, North Atlantic and Arctic Ocean.	Fillon, R H	AGC RR	LSS		-	-	2415
760037	Regional subsurface geology, continental shelf and slope, offshore Labrador, Baffin Island and related areas Obj: To investigate the geological framework of the Labrador Sea-Baffin Bay areas; to analyse the sedimentary sequences off Labrador and Baffin Bay; to assess the hydrocarbon potential of this area.	Umpleby, D C	AGC EPG	RSBS		Nfld Frank	2, 3, 13, 14, 15, 16, 27, 28, 29, 30, 39, 120	2421

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Classification
760038	Biostratigraphy and paleoecology (palyology) of Mesozoic and Cenozoic of the Atlantic Shelf  Obj: Refinement of the Mesozoic-Cenozoic palyological zonation, already established for the Scotian Shelf Grand Banks, and Labrador Shelf. Comparison of palyomorphs from offshore Eastern Canadian wells with coeval assemblages from other Atlantic margins, the Atlantic Basin and other related areas. Determination of the environmental significance of dinoflagellate cyst distributions and the biogeography through time. Studies of organic type (kerogen) and maturation where relevant.	Bujak, J	AGC	EPG	SS	NS	NFD 1, 2, 3, 10, 11, 12	2431
760039	Study of the structure and origin of Baffin Bay  Obj: Analysis of bathymetric, gravity, magnetic, seismic reflection and refraction, bedrock samples and sediment sample data from offshore and geological and geo-physical data from onshore to determine the structure and origin of Baffin Bay.	Falconer, RKH	AGC	RR	EAOG	-	-	2417
760042*	Jurassic biostratigraphy of selected areas of western and Arctic Canada  Obj: (1) To provide detailed biostratigraphic and lithostratigraphic data on Jurassic rocks of selected parts of British Columbia, Alberta, Yukon Territory and Arctic Islands; to collect samples for lithologic and paleontologic study. (2) This project is intended to support and complement the work of regional mapping geologists in the areas concerned, by field studies. In this context, the scope and objectives of the project will vary somewhat from year to year.	Poulton, TP	ISP	G	P	MaP BC Alta YK Frank	82; 83; 92-94; 103 C, F, G; 104; 105 E; 115 H, I; 49; 59; 69; 79 F 89 E; 99; 340; 560	2431
760043*	Regional geochemistry Newfoundland & Labrador  Obj: 1. To carry out coordinated follow-up studies, with Newfoundland staff of the 1977 and 1978 URP-NGR surveys in Labrador; 2. To illustrate the effectiveness of URP-NGR surveys in stimulating exploration and providing a data base to support mineral resource inventory studies; 3. To develop geochemical survey methodology appropriate for various types of mineral deposits and environments in Newfoundland and Labrador; 4. To complete publication of B.C. data.	Boyle, DR	RG	G	RG	RS NFld	-	2463
760044*	Regional geochemistry-Southern Canadian Shield  Obj: (1) To assess, through regional orientation surveys, the use of various geochemical sample media, as a fundamental step in the development of geochemical survey procedures appropriate to the project area; (2) to illustrate through detailed surveys, interpretation and follow up activities, the effectiveness of such survey apparatus, as a means of stimulating mineral exploration within 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.	Coker, WB	RG	G	RG	RS Sask Man Ont	31 C, F; 42 D, E; 52 A, H; 64 E, J, K, L, N, O	2463
760045*	Evaluation of Uranium Reconnaissance Data  Obj: (1) To develop guidelines for interpretation of Uranium Reconnaissance Program data; (2) to identify features in reconnaissance data that are diagnostic of mineralization; (3) to maximize the usefulness of URP data; (4) to correlate URP data with uranium resource potential.	Charbonneau, BW	RG	G	RR	RM Ont Frank	31 C, 47 F	2463

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
760047*	Regional geochemistry-Northern Canadian Shield Obj: To determine the nature and factors affecting the distribution of trace elements within bedrock, overburden and stream and lake waters and sediments, etc. in order to: (1) evaluate the effectiveness of the NGR program (project 750051) and improve the operating techniques and specifications; (2) provide methodology for interpreting and following up NGR reconnaissance results; (3) assess the mineral potential of various regions and rock units with emphasis on granitoid rocks.	Maurice, Y	RGG	RG C	RS	Mack Kee Frank	76 H,I; 75 F-K; 46 N,O,P; 47 A,B,E,F	2463
760048*	Radiation instrumentation Obj: The adaptation and development of advanced technology, both in house and under contract for more rapid and comprehensive acquisition of radiometric data in various portions of the electromagnetic spectrum, in both laboratory, airborne, surface and subsurface situations. The publication and/or licensing of technology so developed for rapid and effective transfer to industry.	Bristow, Q	RGG	RIE	R	Ont Sask	31 C,F,J; 41 J; 40 I; 73 B	2463
760049	Gamma-Ray Laboratory Operations Obj: To provide analytical facilities for the determination of K, U, and Th in geological samples, and for the determination of radioactive disequilibrium in rock samples; to provide adequate standards for calibration of the lab as well as standards for the various calibration facilities constructed; to provide a data storage and retrieval system related to the analytical results produced by the laboratory.	Cameron, G W	RGG	RIE	RM	-	-	2463
760053	Hydrocarbon geochemistry of 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.	Powell, TG	ISPG	E	GC	Frank	98, 88, 78, 68, 58, 99, 89, 79, 69, 59, 49, 560, 340	2461
760054	Hydrocarbon geochemistry of Canadian East Coast 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.	Powell, TG	ISPG	E	GC	Nfld NB NS	14, 3, 10, 11, 20	2461
760056	Evaluation of coal deposits of western Canada Obj: To establish a coal resource base in the coal deposits of western Canada from which quantitative, qualitative, mineability and environmental studies can be made.	Graham, PS	ISPG	CG	RE	Alta BC	82 J; 92 O; 93 B,C,G; 83 A	312

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
760057*	IUGS Secretariat Obj: 1) To maintain communication among the 82 member countries in IUGS and the Executive Committee, Council, 6 Commissions, 5 Committees, 19 major Subcommissions and 14 Affiliated Organizations. 2) To promote the general scientific objectives of IUGS and to foster and co-ordinate activities designed to attain these objectives. 3) To co-ordinate co-operative activities or establish liaison among international organizations such as UNESCO, ICSU and other Unions and joint programs (such as ICGP). 4) To carry out directives of the Executive Committee of IUGS. 5) To compile and produce the quarterly publication, <u>EPISODES</u> and all other official IUGS publications and brochures.	Hutchison, W W	DGO	-	IUGS	-	-	296
760058*	Vegetation distribution and relationships to surficial materials- Arctic Obj: To map and describe vegetation distribution and plant communities as they relate to selected areas of the Arctic Islands.	Edlund, SA	TS	-	RP	Frank Kee Man	79 D	2413
760059*	Study of large landslides in the Western Cordillera Obj: To determine the setting and mechanisms of major slope failures in selected parts of the Cordillera to establish criteria for assessing potential landslide regions and specific localities.	Eisbacher, GH	REG	CPM	GR	Mack Yk BC	93 D; 106 C,F; 95 L,M; 94 F,K; 105; 116	244
760060	Mineral and energy resource evaluation: Probabilistic Methods Obj: Preparation of a book to bring together and provide a perspective for those mathematical methods which, in one way or another, aim to predict the places and models of occurrence of undiscovered mineral resources.	Agterberg, FP	REG	EG	GM	-	-	412
760061	Regional synthesis of the Grenville Province in Ontario and western Quebec Obj: To effect a regional synthesis of the geology of the Grenville Province in Ontario and western Quebec and to interpret the synthesis in terms of the geological evolution of the area, and in cooperation with project 750062, of the Grenville Province as a whole.	Davidson, A	REG	P	SG	Ont Que	Pts 31, 32, 41	2421
760062*	Geology of bedded phosphate deposits in Canada Obj: To identify Canadian phosphate resources and to develop an understanding of the regional geology relationships: patterns and occurrences, associations, facies, paleogeography, etc.	Christie, RL	ISPG	RG	AI	Alta, BC Yk	-	2466
760063	Hydrocarbon geochemistry of northern interior plains and Beaufort Sea 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.	Snowdon, LR	ISPG	E	GC	Yk Mack	106, 107, 117	2461

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
760064*	Geology of Mineral Resources in the Ocean 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.	Gross, G A	REG	EG	SP	-	-	2465
760065	Digital Compilation of Queen Air Aeromagnetic Data Obj: (1) To compile with the existing software system or adaptation thereof the digitally recorded data resulting from the Queen Air survey operations, including the backlog data accumulated over the past. (2) To provide user's guides to programs within the software system to allow their effective application by other personnel. (3) To maintain the digital data bank catalog to Queen Air data.	Dods, S D	RGG	RG	GDP	-	-	2416
770001*	Study of the Cenozoic Evolution of the Western Cordillera Obj: (1) To compile and publish a review of existing data on the Cenozoic geology of the Cordillera. (2) To obtain data from selected areas where additional data are required or which illustrate typical relationships. (3) To publish a series of topical papers based on selected field studies leading to a synthesis of the Cenozoic evolution of the Cordillera.	Souther, J G	REG	C P M	GR	BC	Yk	2421 pts. of 82, 92, 93, 103, 94, 104, 95, 105, 115 A-C, 106, 116, 117, 114 O, P
770004	Reconnaissance field study of the Mesozoic sequences outcropping on the Iberian Peninsula Obj: To provide evidence that the sedimentary sequences of the Iberian Peninsula are co-eval with similar sequences beneath the Grand Banks.	Jansa, L	AGC	EPG	SSG	-	-	2421
770006*	Stratigraphy and structure of the Pacific Continental Slope and Shelf using manned and unmanned submersibles Obj: (1) To describe the stratigraphy, biostratigraphy, sedimentology, structure and geochemistry of the stratigraphic successions exposed on the continental slope. (2) To map the distribution, structure, facies and stratigraphic relationships of rock units beneath the continental shelf. (3) To incorporate (1) & (2) in the interpretation of geophysical information to obtain an understanding of the tectonic history of the offshore Pacific continental margin. (4) To determine the petroleum potential of the region.	Yorath, C J	REG	C P M	M G	BC	-	2414 92 C, D, E, L; 102 H, J, O, P; 103 B, C, F, G, K

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
770010*	Development of Analytical and Theoretical Techniques for Refraction Seismology Interpretation Obj: (1) To analyze refraction data by the inversion of travel time data. (2) To analyze refraction data using synthetic seismograms. (3) To interpret refraction record sections particularly the converted S phases using synthetic travel time plots.	Keen, CE	AGC	RR	OBM	-	-	2421
770012	Geology of the Coronation Gulf area Obj: To establish the geology of the extrusive and sedimentary rocks of these areas; to compile a detailed stratigraphic-sedimentologic analysis of the Parry Bay and Kanuyak Formations, and the Coppermine River Group, and to relate these rocks to the underlying Tinney Cove and Ellice River Formations; to correlate, if possible, the Hornby Bay dolomite and sandstone with the Parry Bay, Ellice and Tinney Cove; to relate tectono-depositional events in other post-Coronation Geosyncline sequences. To determine the extent of copper mineralization in the Coronation lavas, and uranium content in the Parry Bay and other sedimentary rocks.	Campbell, FHA	REG	P	BS	Mack Frank	77 A,B,D,E; 76 G,J,K, M,N,O (parts of); 86 O,P	2421
770013*	Operation Borden Obj: A study of the stratigraphy, sedimentology, and economic potential of the upper Proterozoic rocks (EQUULIK and ULUKSAN GROUPS) of northern Baffin and Bylot Islands, and of the relationships between these strata and the underlying basement gneisses. A basin analysis will supply data for comparison and possible correlation with strata of west Greenland and Arctic Canada.	Jackson, GD	REG	P	NC	Frank	parts of 37 G; 38 B, C; 48 A-D	2411
770015	High Resolution Aeromagnetics (Instrumentation Development) Obj: To improve the performance of the GSC experimental high resolution/gradiometer survey system, in terms of sensitivity, precision, reliability, efficiency and endurance.	Sawatzky, P	REG	RG	MM	-	-	2416
770016*	Operation Dease Obj: i) To complete and update the 1:250,000 geological mapping of Cry Lake and Dease Lake map-areas and N $\frac{1}{2}$ Spatzizi. ii) To publish reports of field activities and papers on specific aspects of the geology of the region. iii) To complete and publish a final map and memoir on Cry Lake map-area and a final map and paper on Dease Lake map-area.	Gabrielse, H	REG	CPM	GR	BC	104 I,J	2412
770017*	Stratigraphy, structure and metallogeny of the northern part of the Intermontane Belt (Whitehorse trough) in the Canadian Cordillera Obj: To provide data on, and extend our understanding of, the relationships between stratigraphy, structure, sedimentary facies and mineral deposits on the northern Intermontane Belt of central Yukon.	Tempelman-Kluit, DJ	REG	CPM	GR	YK	105 C,E,L; 115 I	2421

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
770018*	Regional Seismic Surveys Obj: To determine the thickness, attitude and seismic velocities of sedimentary formations comprising the Lomonsov Ridge, using seismic methods.	Overton, A	REG	RG	SM	-	-	2421
770019*	Hepburn Batholith, Hepburn Lake map-area, District of Mackenzie 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.	Hoffman, PF	REG	P	BS	<u>Mack</u>	<u>86 J, O</u>	2421
770020*	Kemano Project Obj: To produce a report and geological map of Whitesail Lake (W $\frac{1}{2}$ ) map-area, on a scale of 1:250,000, with one or more 1:50,000 maps of the most critical areas.	Woodsworth, GJ	REG	CPM	GR	<u>BC</u>	<u>93 E</u>	2412
770023*	Development and/or adaptation of mineral exploration approaches in clay covered areas. Obj: To develop and/or adapt effective exploration methods and approaches which will aid industry in the discovery of anomalous base metal and uranium concentrations in clay covered areas.	Smees, BW	REG	-	-	<u>Ont Que</u>	<u>52 E; 42 E; 42 B; 32 D</u>	2465
770024*	Geology of uranium resources of Canada-V 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.	Gandhi, SS	REG	EG	URE	<u>BC Mack</u>	<u>86 C, F, K, G, J, L, 85 I, M, N; 75 C, D, E, K, L; 82 M; 46 N; 76 J, N, O</u>	313
770025*	Regional Geochemistry - Yukon Obj: 1) To assess through orientation surveys the use of various geochemical sample media as a fundamental step towards the development of geochemical methodology appropriate to the project area; 2) To illustrate through detailed interpretation surveys the effectiveness of such surveys as a means of evaluating the mineral potential; 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.	Goodfellow, WD	REG	RGC	RS	<u>YK BC Mack</u>	<u>105 A, B, H, I, F, O; 106 E; 116 B, L, M, N; 115 G, I, J; 117 A, B, C, D; 95 J, K, N</u>	2463



Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Classification
770026*	Geology of Red Indian Lake, west half, Newfoundland Obj: (1) To revise the geology and evaluate the economic mineral potential of Red Indian Lake, west half (1:2 A, W1/2) by mapping at 1:50,000 scale and by compilation where needed. (2) To monitor, assess and then absorb results of geological mapping of insular Newfoundland under the Canada-Newfoundland Mineral Development Subsidiary Agreement.	Herd, R K	CS	A	Nfld	12 A		2421
770027	Proterozoic redbeds of Richmond Gulf Obj: (a) To determine the processes of formation of Proterozoic redbeds and associated metallogenesis; (b) To correlate Richmond Gulf sequence with sequences elsewhere on Canadian Shield.	Chandler, F W	REG	CS	A	Que	33 N/15 34 C/1,8	2421
770028	Regional Synthesis — Baffin Island: Project I Obj: Regional synthesis of all aspects of the Precambrian geology of Baffin, eastern Devon and southeastern Ellesmere Islands in the District of Franklin, N.W.T.	Jackson, G D	REG	P	NC	Frank	56-59; 45-49; 34-38; 24-27; 14-16	2423
770030*	Géologie du Quaternaire, région de l'Outoaouais supérieur Obj: Cartographier, décrire et expliquer les dépôts meubles formes de terrain, avec objectifs secondaires de: (1) Fournir des données relatives à l'utilisation du sol, à la prospection et localisation de sable et gravier, aux réserves d'eaux souterraines, à la prospection géochimique. (2) Déterminer les propriétés physiques et mécaniques de certain dépôts.	Veillette, J J	TS	-	RP	Que Ont	31 M, (N $\frac{1}{2}$ ); 31 N, (N W $\frac{1}{2}$ )	2413
770031*	Surficial geology and terrain evaluation, southern Yukon Obj: To map, describe and explain the surficial materials and landforms and to provide areal geologic-geomorphic data and knowledge of the stratigraphy, age and history of surficial deposits to provide background information for land-use planning and engineering development.	Klassen, R W	TS	-	RP	Yk BC	94 M; 104 P; 105 A-D, E; 115 A, H, I, 114 P	2413
770032	Geological characterization of Arctic lakes: sediment properties and sedimentary processes 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.	Adshead, J D	TS	-	SMT	Kee	66 A, H; 65 A, P, I, H; 55 E, F, M; 56 D, E, N, K	244
770035*	Periglacial processes and slope movement, central Keewatin Obj: (1) To determine the rates of slope mass movement; (2) to determine the processes involved in mudboil development and their rate of development; (3) if possible relate slope movement to mudboil development and morphology. The study area straddles the proposed Polar Gas pipeline route and hence will provide terrain data for the assessment of that route as well as information that could be used for future development projects.	Egginton, P A	TS	-	SMT	Kee	55 L; 65 I, O, P,	244

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
770036*	Geotechnical study of rock heave, central Arctic	Dyke, LD	TS	-	GP	Frank Kee Man	54 K,L; 57 G; 58 B, C,F,G; 65 O,P; 68 G,H; 78 G,H; 79 B	2453
770037*	Obj: To study and describe the process of rock heave in massive rocks in the central Arctic along the proposed route of the Polar Gas pipeline and its effect on the pipeline.  Slope processes and cryogenic movements, Arctic Islands	Heginbottom, JA	TS	-	GP	Frank	58 F,G; 68 G,H; 79 B	244
770038	A text on Canadian Geology and Natural Resources  Obj: To prepare a text, at about the senior high school or introductory college level, which will summarize our present knowledge of Canada's rocks and minerals and relate them to recent hypotheses of the earth's evolution. It will be designed to provide factual background for intelligent laymen interested in world resource crises.	Neale, ER W	ISPG	GI	-	-	-	248
770041	Compositional Characteristics of Coals from Hat Creek, British Columbia  Obj: i) To determine the petrographic character of the coals of the Hat Creek deposit ii) To determine the suitability of vitrinite reflectance as a rank parameter in these low rank coals (lignite to sub-bituminous) and if suitable, to use this parameter as the basis of determination of the relative timing of coalification and deformation iii) To examine the nature, vertical and lateral variation of associated clastics in boreholes and to combine these data with those of the petrographic study and a literature survey to interpret the depositional and post depositional environment of the deposit.	Marchionni, DL	ISPG	CG	CT	BC	92 I,P	2462
770042	Surface oxidation of variously ranked coals  Obj: i) To determine the effects of oxidation, due to natural weathering processes, on the optical (macro- and microscopic), chemical and physical properties of variously ranked coals. ii) To examine the relationships between the properties of naturally oxidized coals and unaltered equivalents. iii) To determine relationships between degree of oxidation effects and coal rank.	Marchionni, DL	ISPG	CG	CT	BC Alta	82 O,G,H,P	2462

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
770043	Carboniferous and Permian stratigraphy and sedimentation in the southwestern District of Mackenzie and southeastern Yukon Territory	(Richards, BC)	ISPG	RG	M	Mack Yk	95 B,C	2421
	Obj: The principle objective of this project is to determine the depositional environments of the Mississippian to Permian Yohin, Clausen, Flett, Etanda (=Besa River), and Mattson Formation (Sensu Harker, 1963), and investigate the lithofacies relationships within and between these formations. A second objective is to revise the stratigraphic nomenclature of Mississippian surface and subsurface units in the project area.							
770044*	Lower Paleozoic basin-to-platform relationships in the Cordillera	Cecile, MP	ISPG	RG	M	Mack BC Yk	106 A,B,F,G; 94 B,F,G; <u>105 O,P</u> ; 95 K,L,M,N	2421
	Obj: To contribute to the subdivision, mapping and understanding of important Lower Paleozoic basinal sequences through: (a) Tracing of time-rock units from platform to basinal sequences, (b) Correlation of events on the platform with responses in the basin, (c) Identification of mappable units in basinal sequences, on lithological paleontological, geochemical or other criteria, (d) Estimation of basinal water depths, (e) Elucidation of the composition and movement of basinal fluids, as deduced from diagenetic events.							
770045	Taxonomy and biostratigraphic distribution of Mesozoic and Paleogene megaspores	Sweet, AR	ISPG	P	MiP	Mack Frank Ont, NS	107 B; 88 C; 98 E; 79 B,D; 69 D; 49; 42 N; 11 E	2431
	Obj: 1) To describe and classify megaspores from northern Canada and when necessary for comparative purposes, from southern localities. 2) To establish biostratigraphic zonations based on the described megaspores.							
770046	Resource Evaluation of coal deposits of western and northern Canada	Hughes, JD	ISPG	CG	RE	Alta Yk	83 H/2 and 83 H/7; 105 A,B,F,G,L,K,M; 115 I,O,P; 116 B,C	312
	Obj: To establish a coal resource base from which quantitative, qualitative, mineability and environmental studies can be made by other government scientists. To advise scientists and engineers in industry on geological conditions relating to the coal deposits of Canada in order to assist them in the exploration for coal. To collaborate, on behalf of the Department, with geologists and engineers from various provincial government agencies as part of coal resource studies. To provide basic data required for the evaluation of the coal resources of these deposits.							
770047*	Studies of coal deposits of western and northern Canada	Long, DGF	ISPG	CG	GC	Yk	106 E; 105 A,B,F,G, H,J,K,L,M; 115 H,I, N,O,P; 116 A,B,C	2462
	Obj: To provide basic data required for the evaluation of the coal resources of western and northern Canada; to prepare suitably illustrated geological reports either for publication or for internal use; advise scientists and engineers in industry and government on geological conditions relating to the coal deposits of Canada in order to assist them in the exploration and exploitation of coal.							

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
770048*	Brachiopods of the lower Upper Devonian Waterways Formation of northeastern Alberta  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).	Norris, A W	ISPG	P	Map	Alta	74 D, E, L, S; 84 I, P	2431
770049	Stratigraphy and sedimentology of the Tertiary sediments of the eastern Arctic  Obj: Determine the stratigraphic and sedimentary history of the Eureka Sound and Beaufort Formations and their relationship to the tectonic evolution of the eastern Arctic fold belt. An analysis of coal resources will be performed.	Miatt, A D	ISPG	R G	AI	Frank	38; 49, 59, 120, 340	2421
770051	The relationship between kerogen type (known petrographic rank) and chemical extract data, for the purpose of source rock evaluation  Obj: To assess kerogen type and degree of maturation by three microscopic methods and correlate the results with organic chemical data in order to define the most efficient microscopic method of source rock evaluation.	Creaney, S	ISPG	C G	CT	Kee Mack	107; 117; 99; 89; 79; 69; 59; 49; 560; 340	2461
770053	Heavy Oil and Oil Sand Resources  Obj: To determine the extent of in-place oil resources; the recoverable portion of that resource; and, to make projections of the impact of this resource on Canada's oil supply.	Raicar, M	ISPG	E	PR	Alta Sask	-	311
770054	Sample preparation and mineral separating  Obj: To provide sample preparation and mineral-separating services in support of Branch projects.	Paris, J C	CLAS	-	M	-	-	248
770055*	Metallurgy of the northwestern part of the Canadian Shield  Obj: To provide a metallurgical basis for the evaluation of the mineral resources of the northwestern part of the Canadian Shield.	Roscoe, S M	REG	EG	MDG	Mack Kee Man Sask	55, 56, 64, 65, 66, 75, 76, 85, 86	2465
770060	Environmental assessment of coal resource development, Canadian Cordillera  Obj: Assessment of the geologic and hydrologic impact of open pit coal mining and emplacement of coal spoil and the investigation of geotechnical problems attendant with the reclamation of lands disturbed by coal mining operations in the Canadian Cordillera.	Jackson, L E	TS	-	GP	Alta BC	-	2451

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
770061*	Mineralogy of uranium deposits in granitic rocks in the Grenville Structural Province Obj: To determine the mineralogy of selected uranium deposits in pegmatitic and other granitic rocks as an input to the evaluation of uranium resources in these deposits and in related terranes.	Rimsaite, JYH	REG	EG	URE	Ont Que	31	2463
770063*	Geology of Lead and Zinc resources of Canada - II 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.	Lydon, JW	REG	EG	MDG	Yk Mack NS Nfld Que	11 D, E, F; 63 J, K, L; 64 B, C; 12 A, H, I; 21 P, D; 32 D; 34 C; 85 B; 105 I, K, M, O	2465
770066	A study of siltation within lakes in the District of Keewatin, N.W.T. Obj: To study siltation processes within lakes and the stratigraphy of lake bottom sediments	(Edwards, TWD)	TS	-	SMT	Kee	55 E, L; 65 A, H, I	244
770067	Western Canada Oil and Gas Pool File Obj: Compilation of all parameter values considered relevant to the accumulation and exploitation of oil and gas pools in western Canada for basis of statistical methods in evaluation of undiscovered resources, resource estimates for heavy oils and unconventional gas.	Skibo, DN	ISPG	E	PR	Alta Sask BC Man	-	311
770070*	Regional Geological Synthesis, Central Superior Province Obj: To compile and synthesize in the form of maps and reports, all geological work to date in NTS map-areas 42 and parts of 32 and 41. To outline areas requiring more coverage or updating and to evaluate what problem-oriented work can be undertaken: (a) to improve regional correlation in Superior Province; and (b) to further understanding of Superior-Grenville boundary. To produce geological maps for publication at 1:1,000,000 scale.	Card, KD	REG	P	SG	Ont Que	41, 42, 32	2421
770071*	Geology of copper and molybdenum resources of Canada - II 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; (3) provide advice to government for mineral policy and related matters.	Sinclair, WD	REG	EG	MDG	Yk BC NS NB Que Ont Man Sask Nfld	115 F-K; 104 N; 11; 21; 22; 12; 31; 32	2465

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
770072	Geological Survey representative on Steering Committee of the Kemp Palynologic Computer Research Project. Obj: To represent the Geological Survey and present the views of GSC palynologists to the KPCRP Steering Committee with regard to the operation and management of the project.	Barss, MS	AGC	EPG	-	-	-	2431
770073*	Study of the Boundaries of Lithospheric Plates Obj: To determine the crustal structure of the Reykjanes Ridge by seismic refraction gravity and magnetic methods in order to extend our understanding of the magmatic processes which lead to the accretion of new material to the edge of the lithospheric plates and possible metallogeny of sulphide ore bodies.	Loncarenic, BD	AGC	RR	-	-	-	2421
770074	Display, Analysis, and Management of Spatially Referenced Geological Data Obj: (1) Determine requirements for, and develop, a library of computer programs for the scientific analysis and display of geological data. (2) Develop a prototype computer processable data base of spatially referenced geological data to manage the data needed for various applications.	Gordon, TM	REG	CS	PET	-	-	248
770075	Canada Basin Ocean Bottom Seismometer Equipment Obj: Obtain experience in geophysical work on arctic ice. Develop techniques for operation of ocean bottom seismometers in ice covered waters. Establish joint working relationships with major U.S.A. arctic research groups: ONR, MIT, Lamont, and Woods Hole. Obtain measurements of the velocity of the seafloor to a sub-bottom depth of about 200 m, the zone which much affects acoustic propagation. Obtain crustal refraction data in the Canada Basin - presumed oceanic but there is no published refraction data.	Falconer, RKH	AGC	RR	-	-	-	248
770076	The geochemistry of uranium in natural waters Obj: To provide a set of guidelines for the collection, preservation, storage and analysis for uranium of waters in relation to the National Geochemical Reconnaissance Program (Project 750051).	Coker, WB	REG	RGC	RS	-	-	2463
770077*	Paleozoic conodonts of eastern Canada Obj: To determine biostratigraphic zonal standards of conodonts in eastern Canada, to determine provincialism and environmental effects and to describe the faunas as an aid to correlation and assessment of economic potential of strata.	Nowlan, GS	REG	CS	EP	Que Ont Man Kee NB NS NFLD	12 L; 11 E, F, K; 22 A, B; 21 P	2431
780001	Coal Resource Data Management Obj: To establish and maintain coal resource data computer files of various coal deposits in Canada and to apply, adapt or develop computer programs for the analysis and display of geological data and the compilation of coal resource estimates.	Stevens, CF	ISPG	CG	RE	-	-	312

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Project Classification
780002	Glacial erosion of the Canadian Shield Obj: A - To define and summarize ways of quantifying rates, depths and volumes of glacial erosion; B - Define parameters that are most influential in controlling glacial erosion on the Shield; C - To measure glacial erosion in selected test areas; D - To evaluate recently developed differences of opinion on efficacy of glacial erosion on the Shield.	Shilts, W W	TS	-	SMT	Kee	55 E,L,K; 41 I	244
780003	Petroleum Evaluation of hydrocarbon Resources of the Western Canada Sedimentary Basin South of 60° Obj: To evaluate the hydrocarbon resource potential for hydrocarbons in western Canada. This includes a knowledge of reserves discovered, appreciation of reserves, degree to which those reserves may be conducive to enhanced recovery, the determination of parameters required to estimate the cost and timing of future supply, the probable extent of undiscovered resources.	Recruit	ISP G	E	PR	Alta BC Sask Man	62 E,F,L,K; 72 E-P; 73 C,D,E,F,K,L,M; 74 D,E; 82 H,I,J,O,P; 83; 84; 93 I,P; 94 A,B, G-K,N,O,P	2461
780004*	Evaluation of Unconventional Gas Resources in the Deep Basin of Western Canada Obj: To determine the quantities of gas that may be recoverable from low quality, relatively low permeable sandstone reservoirs in the Deep Basin of western Canada	Verhoeff, F H	ISP G	E	PR	Alta BC	83 B,C,E,F,K-N; 93 I,P; 94 A,B,G	311
780005*	Geology of Mine Sites (Bustin, M) Obj: 1) To examine the stratigraphy, sedimentology and structure of the Jurassic and Lower Cretaceous coal measures of southwestern Alberta and southeastern British Columbia on the scale of active and potential underground and/or surface mines. 2) To evaluate the structural fabric of the coal measures, their petrography, and mechanical properties and the petrographic make up of the coal. 3) To produce suitable geological maps of the coal measures with appropriate text and other illustrative materials.	(Bustin, M)	ISP G	C G	C G	Alta BC	82 G,O; 83 E	2462
780006*	Mineral Matter and Trace Element Content of Canadian Coals Obj: 1) To determine if coal basins and seams within basins are specific in terms of mineral matter and trace element content. 2) To enlarge the data base for the interpretation of the depositional regimes within coal basins. 3) To relate mineral matter and trace element content to other compositional parameters. 4) To provide a data bank on environmental and utilization aspects of these coals.	Marchioni, DL	ISP G	C G	CT	Alta	82 G,O,P; 83 A	2462
780007	Operation Hyde Obj: To interpret the Precambrian geology and economic potential of the area mapped to a standard of 1:250,000 mapping.	Fraser, JA	REG	P	NC	Kee	55 D; 55 E (S $\frac{1}{2}$ ); 65 A (E $\frac{1}{2}$ )	2412

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Classification
780008*	Geology of Thirty Mile Lake 65 P (W $\frac{1}{2}$ ) and Tebejuak Lake 65 O (W $\frac{1}{2}$ ) map-areas 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.	LeCheminant, AN	REG	P	NC	Kee	65 P (W $\frac{1}{2}$ ); 65 O (E $\frac{1}{2}$ )	2412
780009*	Healey Lake map-area, District of Mackenzie Obj: To determine the general structural metamorphic and age relations of rocks on each side of the Thelon Front in order to better understand the nature of the boundary between Slave and Churchill provinces. To evaluate the economic potential of the area and to map it at the scale of 1:250 000.	Henderson, JB	REG	P	BS	Mack	76 B	2412
780010	A study of Bear Batholith rocks and basement to the Bear Batholith Obj: To define basement rocks of the Bear Batholith, and to establish the stratigraphy and distribution of the lowest parts of the Bear Batholith supracrustal rocks.	McGlynn, JC	REG	P	BS	Mack	86 D, 85 N (pts. of)	2421
780011*	A survey of Metamorphism in the Canadian Shield Obj: To write a concise selective field oriented introduction to metamorphic petrology directed to geologists working in the precambrian Shield	Froese, E	REG	CS	Pet	Man	63 J, K, N	2436
780012	Stratigraphy and geochemistry of the volcanic rocks of the Circum-Ungava Belt Obj: To determine the geochemical characteristics and to work out the stratigraphic relationships of volcanic and related rocks of the Circum-Ungava Belt.	Baragar, WRA	REG	P	SP	Kee	41 I, P; 34 E	2421
780013	Compilation of 1:1 million maps of the Canadian Shield Obj: To compile, synthesize and publish a series of 1:1 million geological maps of the Canadian Shield.	Eade, K	REG	P	SG	-	-	2423
780014*	Regional Geological Synthesis, Western Superior Province Obj: To compile and synthesize in the form of maps and reports, all geological work to date in NTS map-areas 52 and 53.	Taylor, FC	REG	P	SP	Ont Man	52, 53	2421
780015*	Material balance of uranium series in a natural environment Obj: To establish the usefulness of studying the material balance of uranium and its decay products as a means of estimating uranium ore potential of a region.	Dyck, W	REG	RGC	MD	Sask	74 I	2463
780016*	Drift prospecting methods and models Obj: 1) To model glacial dispersal from known sources. 2) To develop drift prospecting methods for use in clay belts.	DiLabio, RNW	TS	-	SMT	Ont NS Man Frank	41 O; 42 A, B, E, L; 52 G; 11 D, E; 21 A; 31, C, F; 92 I; 93 F, K; 64 N; 38 B, C; 48 D	244



Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
780017*	Correlation of Quaternary geology; Great Lakes - St. Lawrence Valley region 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.	Gadd, NR	TS	-	RP	Ont Que	31 B,C,F,G (parts of)	2422
780018*	Surficial geology and Quaternary stratigraphy of north Baffin-Bylot Islands 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.	Klassen, RA	TS	-	SMT	Frank	38 B,C; 48 A-D	2413
780019*	Ocean Dumping Consultation and Study Obj: a) To provide advice to government concerning the feasibility of ocean dumping or disposal of waste materials. b) To test various techniques and procedures for detecting and monitoring the impact of ocean dumping.	Buckley, DE	AGC	EMG	-	-	-	296
780021	Landsat Calibration for Suspended Sediment Concentration in Marine Coastal Environments 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. 2) To extend the Minas Basin calibration. 3) To relate the available Seasat program to Landsat measures.	Amos, CL	AGC	EMG	CG	BC NS	-	244
780022*	Sediment Dynamics at the Head of the Bay of Fundy Obj: 1) To determine the mass input, transfer and removal of sediments to Chignecto Bay, inclusive of Shepody Bay and Cumberland Basin. 2) To develop a numerical model to assess the affects of a Fundy Tidal Power Development on the distribution and accretion of sediments. 3) To formulate a methodology of assessing the implications of marine constructions on sediments in macrotidal regions.	Amos, CL	AGC	EMG	CG	NS, NB	21, 11	244
780023*	Investigation of magnetism interpretation methods Obj: To establish a comprehensive capability for the interpretation of aeromagnetic survey data in order to support geological mapping and resource assessment programs.	Teskey, D	RG	RG	MM	-	-	2416

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Classification
780025*	Archean Rocks of the Main Province in Hopedale (13N), Snegamook Lake (13K), and Makkovik (130) maps-areas, Labrador  Obj: 1. To produce maps (suitable for publications at 1:100,000) and comprehensive reports on the geology and economic mineral potential of the Archean rocks in these areas. 2. To monitor, compile and synthesize results of the geological mapping of Labrador to be carried out under the Canada - Newfoundland Mineral Development Subsidiary Agreement.	Ermanovics, I	REG	P	SG	Nfld	13 N,K,O	2412
780026	Quaternary paleo-sealevel map of Canada  Obj: To produce a synthesis of sealevel phenomena for the Quaternary period.	Pelletier, BR	TS	-	SP	NS NB PEI Nfld Que Ont Man BC Yk Mack Kee Frank	1-2, 11, 13-16, 20-22, 24-29, 32-39, 42-43, 45-49, 54-59, 66-69, 76-79, 86-89, 92, 98-99, 102-103, 107, 114, 117, 120, 340, 350, 360	2422
780027*	Coastal Geology - British Columbia  Obj: To carry out both inventory and process studies of coastal and nearshore geology in British Columbia in order to: provide a data base for coastal management; be able to respond to requests for information and advice from other government agencies; and understand better the Quaternary evolution of the west coast of Canada.	Bornhold, BD	REG	CPM	MG	BC	92 B,C,E,F,G,K,L,M; 93 D; 102 I,P; 103 A, B,C,F,G,H,I,J,K,O,P	244
780028*	Detailed Geological Investigation of selected areas within the Foothills and Rocky Mountains of the Monkman Pass map area - with emphasis on the structure  Obj: (i) To assist in the completion of reconnaissance studies within the Monkman Pass map sheets; (ii) to proceed with selected, more detailed studies aimed at a clearer understanding of structural relationships across this part of the Rocky Mountain Belt; and to begin a preliminary analysis of fracture fabrics within some upper Paleozoic and Mesozoic stratigraphic units.	Thompson, RI	ISPG	RP	M	BC Alta	93 H,I; 83 E	2421
780029	Mesozoic and Cenozoic Foraminifera of the Arctic Western mainland of Canada  Obj: To systematically describe and interpret Mesozoic and Cenozoic Foraminifera of the Arctic western mainland of Canada.	McNeil, DH	ISPG	P	MiP	YK Mack	95, 96, 97, 105, 106, 107, 115, 116, 117	2431
780030*	Taxonomy, biostratigraphy and paleoecology of Mesozoic and Cenozoic palynomorph assemblages from the Mackenzie Delta Beaufort Sea and Arctic Region  Obj: To establish a biostratigraphic zonation scheme for the Mesozoic and Cenozoic the Mackenzie Delta, Beaufort Sea and Arctic Region.	Ioannides, PS	ISPG	P	MiP	Frank	120	2431

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
780031*	The Newfoundland Continental Slope at 49°N to 50°N: Nature and magnitude of contemporary marine geologic processes Obj: (1) To discover the nature and magnitude of contemporary marine geologic processes based on sedimentologic, geochemical neontologic <u>in situ</u> sensor data. (2) To develop process and environmental models for biostratigraphic, paleoecologic and environmental impact studies.	Schafer, C T	AGC	EMG	PEC	NS <u>INFLD</u>	-	244
780032	Lead isotopic studies on genesis of ore deposits Obj: 1) To do lead isotopic studies of ore deposits in order to improve our understanding of the age and genesis of these deposits. 2) To derive a lead isotope model that will be useful in refining genetic models for many types of ore deposits. 3) To coordinate the obtaining of lead isotope analyses for the members of the Mineral Deposits Geology Section and the assignment of priorities for such analyses. 4) To aid members of the section in interpretation of analyses that have been carried out for other projects.	Thorpe, RI	REG	EG	MDG	-	-	2465
780033*	Quaternary paleoecology, Great Lakes Obj: To describe, analyze and explain unconsolidated deposits and associated organic remains in the Great Lakes in order to: 1) determine Quaternary stratigraphy, history and paleoecology; 2) identify processes operative in the lakes during the Quaternary and the factors controlling them; 3) to provide background geological information for other scientific studies in the Great Lakes.	Anderson, T W	TS	-	PG	<u>Ont Que</u>	<u>31 B-G, J-L</u>	2433
780035	Remote sensing applied to Quaternary geology and mineral tracing Obj: To evaluate the potential use of remotely sensed, multispectral data for terrain evaluation, terrain mapping, Quaternary geology and mineral tracing. To apply appropriate processing techniques for remotely sensed data to Quaternary geology and related terrain studies in selected test areas in Canada.	Belanger, JR	TS	-	SMT	Yk Kee	55 E, L, M; 65 H; 115 A-C, F, G, J, K	2422
780037*	Structural geology-geomorphology, southwest Yukon Obj: To determine the nature and scope of late Quaternary tectonic activity along the Denali Fault and to identify and interpret landslides and other potential terrain hazards in southwest Yukon Territory in order to provide information pertinent to industrial development, including pipeline and road construction and maintenance, and to determine the history of faulting in the region.	Clague, JJ	TS	-	RP	<u>Yk</u>	105 C, D, E; <u>115 A, B, F, G, H, I, J, K; 114 O, P</u>	244

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
780038	Cambro-Ordovician facies and correlation, Arctic Canada and Greenland Obj: To improve understanding of the sedimentation and paleogeography of the Franklinian geosyncline, specifically of Cambro-Ordovician stratigraphic sections in Canada and in northern Greenland; to provide a better understanding of Cambrian and Ordovician events along the platform and platform-miogeosyncline junction along the edge of the Franklinian geosyncline.	Christie, R L	ISPG	G	AI	Frank	-	2421
780039	Jurassic and Cretaceous Minnes Group, Alberta and British Columbia Obj: To describe the stratigraphic succession and petrography to document fossil flora and fauna; to provide data on correlation of these strata, their lateral variation, their potentialities as sources of oil and gas, and their suitability as reservoirs for those fuels.	Stott, D F	ISPG	-	-	Alta BC	83 E, L; 93 I, O, P; 94 B, G, J	2421
780042*	Comparative studies of the continental margins of the Labrador Sea and of the North Atlantic Obj: 1) To delineate subsurface structure across Labrador and west Greenland margins. 2) To determine the transition from the continental to oceanic crust across the margins. 3) To discuss the subsidence history of the margin as obtained from well data and to relate it to the subsurface structures.	Srivastava, S P	AGC	RR	LSS	-	-	2421
780043	Coastal Reconnaissance of the Sverdrup Basin, N. W. T. Obj: To map and analyze the coastal environments of the Sverdrup Basin, N. W. T. To provide information on the shore types, processes and the effects of massive shore ice piles which will serve as background information for the evaluation of potential marine terminal sites and the impact of such installations on the coastal zone.	Taylor, R B	AGC	EMG	G	Frank	69 B, C, D, E, F; 59 C; 79 A	244
780044*	Relationships between trace elements in the soil and their accumulation by plants Obj: To study factors affecting the uptake of various trace elements into plant organs, in order to understand the movement of potentially toxic elements from the geochemical environment to biological systems.	(Rencz, A N)	TS	-	SMT	Que Kee	21 E, 56 D, 55 K 64 L	244
780045*	Debris flow hazard assessment methodology, alpine and northern upland areas Obj: To identify and determine the relative importance of the environmental factors favouring the development of debris flows in the Rocky Mountains (49°N-54°N), and to develop a methodology for assessing the hazards to transportation and utility facilities from this process.	Jackson, L E	TS	-	GP	BC, Alta	82 G, J, N, O; 83 C, D, E	2451

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
780047*	Computer Methods and Calibration	Carson, JM	RGG	RR	RM	Sask Ont, NB	21 G; 31 G; 73 B	2463
	Obj: 1) To develop computer methods for compilation of radiometric data. 2) Develop data base for airborne, ground, laboratory and borehole gamma ray spectrometric data. 3) To standardize and coordinate the calibration of radiometric systems.							
780048*	Surficial Geology of Lomonosov Ridge, Arctic Ocean	Blasco, SM	AGC	EMG	CGD	-	-	2415
	Obj: 1) To describe the morphology, structure and history of the surficial sediments of the Lomonosov Ridge in the vicinity of the EMR LOREX site (near North Pole). 2) To contribute to Earth Physics Branch's LOREX to define continental (?) origin of Lomonosov Ridge. 3) To adapt technology and to gain experience in working on frozen seas. 4) To establish working contacts with other groups concerned with Arctic Ocean geology.							
780049*	FRAM I Seismic Refraction and Reflection Experiment	Falconer, RKH	AGC	RR	EAOG	-	-	2421
	Obj: To collect seismic refraction and reflection data and study natural seismicity during the drift of the U.S. ice camp FRAM I adjacent to the Nansen Ridge in order to determine representative crustal sections of the Arctic Ocean Basin as an indicator of its development.							
790002*	Geochemical data processing	Lund, NG	RGG	RGC	RS	-	-	2465
	Obj: 1) Develop and maintain geochemical data compilation, data management and digital storage services; 2) Provide data processing support; and 3) Compile, monitor and prepare data from National Geochemical Reconnaissance surveys.							
790003*	Regional Geochemistry - Southern Cordillera	Ballantyne, SB	RGG	RGC	RS	BC Yk	104 N, O, P, J; 94 K, L; 105 B 92 O, P	2465
	Obj: 1) To develop and test geochemical exploration methods for concealed ore deposits in a variety of geological and surficial environments. 2) To assess the effective performance of geochemical reconnaissance surveys.							
790004*	Geochemical Sampling and Resource Evaluation Studies	Garrett, RG	RGG	RGC	MD	-	-	2465
	Obj: To develop and document methods of utilizing geochemical data in mineral resource evaluation studies. Particular attention will be paid to assessing the reliability of such studies through measurement of the variabilities associated with all stages of sample and data acquisition and processing.							
790005*	Quaternary geology, Mayo-McQuesten	Hughes, OL	TS	-	RP	Yk	105 M, 115 P	2413
	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.							
790006*	Marine Delta Sedimentation, British Columbia	Luternauer, JL	REG	CPM	MG	BC	92 B, G; 103 G, H, I, J	244
	Obj: To provide geological/sedimentological data base for delta systems in coastal British Columbia for general land and waterfront planning and environmental management.							

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
790007*	Geology of Nahanni map-area (105 I) Yukon Territory 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.	Gordey, SP	REG	CPM	-	Yk Mack	105 I	2412
790008*	Stratigraphy, sedimentation, structure and tectonic setting of the Windermere Supergroup Obj: To establish the stratigraphic succession, origin and correlation and determine the role played by these rocks in the evolution of the Cordillera. To relate mineral deposits to the stratigraphic, sedimentological and structural framework of these rocks.	Eisbacher, GH	REG	CPM	-	Yk, Mack BC, Alta	115; 105; 95; 94K; 93 L; 83; 82 K, N, O; 116; 106	2421
790009*	Kamliukuak Lake Map-area, 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.	Eade, KE	REG	P	NC	Kee	65 K; 66 H	2412
790011*	Fort Smith-Hill Island Lake region District of Mackenzie Obj: To reconnaissance geology of map-areas 75 B, C, D and Precambrian part of 85 A in order to plan regional study.	Bostock, HH	REG	CS	A	Mack	75 B, C, D; 85 A	2411
790012	China-Canada Exchange - Hydrocarbon Geochemistry Obj: To exchange information on methods of geochemical investigations of oil, gas and organic matter and application of their results to exploration and resource assessment. To gain a broader knowledge of geochemical criteria for petroleum generation and accumulation in various geological settings.	Powell, TG	ISPG	E	GC	-	-	2461
790013*	Relationship of reflectance to 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 means. 2) To determine the relationship of varying maceral compositions on rank as determined chemically.	Cameron, AR	ISPG	CG	CT	Sask Alta BC	73 D, 82 G, O, P; 83 E; 93 I	2462
790014*	Triassic Foraminifera of the Sverdrup Basin Obj: To investigate the feasibility of using foraminifera as a means of refining biostratigraphic zonation within the Triassic System and of establishing criteria for the dating and correlation of potentially petroliferous sequences within and adjacent to the boundaries of the system.	Wall, JH	ISPG	P	MIP	Frank	49 G, 59 H; 69; 79; 88; 89; 340 B, C; 560	2431

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
790015*	Surficial geology and paleo-glaciology of the central Labrador Shelf Nain, Makkovik and Harrison Banks  Obj: To gain insight into recent sedimentary processes and hydrodynamic regime; the pattern of glaciation on the banks; the history of glaciation locally and an integration of results with those of previous Labrador Shelf projects to develop a regional picture.	Fillion, R H	AGC	RR	-	-	-	2415
790016*	Geology of the Helikian Sediments and Adjacent Gneisses, Fury & Hecla Strait Area  Obj: 1) To determine the internal stratigraphy, sedimentology, structure, age, geological history of the sediments. 2) To map the gneisses underlying the sediments to the north, concentrating on those gneisses coincident with strong radiometric anomalies.	Chandler, F W	REG	CS	A	Frank	47 C, D, E, F	2421
790017*	Shelf Environments of Central Labrador and Ungava Bay  Obj: 1) To determine the nature and magnitude of sediment transport processes on the inner shelf. 2) To delineate Holocene stratigraphy of Inner Shelf and relate to the depositional framework of the bank-basin areas under study by Vilks and Fillion.	Reinson, G E	AGC	EMG	CGD	Nfld	13 H, I, O	244
790018*	Ice Scouring of Continental 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.	Lewis, C F M	AGC	EMG	CGD	Nfld Yk Mack Frank	-	244
790019*	Environmental Geology of Deep Ocean  Obj: 1) To investigate the capacity of the deep ocean environment to maintain normal processes under stress imposed by exploration of waste disposal. 2) Participate with the seabed working group of NEA in order to maintain awareness with the progress in feasibility studies for the disposal of high level nuclear waste in the seabed and DOMES project.	Vilks, G	AGC	EMG	PEC	-	-	244
790020*	An investigation of the semi-inert constituents of W. Canadian coals  Obj: To investigate the degree of participation of semi-inert macerals, of Western Canadian coals, in a heat-treatment process and to establish a reliable microscopic method for predicting the coking properties of these coals.	Creaney, S	ISPG	CG	CT	BC, Alta	-	2462
790021*	Surficial geology, Lac Kipawa Region  Obj: To map, describe and explain the surficial materials and landforms and to provide geological-geomorphic data and knowledge of stratigraphy, age and history of surficial deposits, to provide background information pertinent to land use planning, forestry, agriculture, urban and industrial development and engineering construction.	Vincent, J S	TS	-	RP	Que	31 L	2413

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
790022*	Stratigraphy and sedimentology of the Lower Cretaceous Gething Formation, Rocky Mountain Foothills, Alberta and British Columbia Obj: To describe the Lower Cretaceous stratigraphic succession; to collect samples for laboratory studies, and to collect fossil flora and fauna; to provide data on the origin, distribution and continuity of coal seams 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.	Gibson, DW	ISPG	CG	GC	Alta, BC	83 L; 93 I, J, O; 94 B, G	2462
790023*	Wisconsin glacial limit-surficial geology, northwest District of Mackenzie Obj: To characterize, date and correlate moraine systems between Mackenzie River and Brock Upland; to map, describe and explain the surficial materials, landforms, permafrost and ground ice; and to characterize the engineering properties of the surficial materials relevant to various aspects of land use.	Chatwin, SC	TS	-	RP	Mack	97 A-D (all), 96 M, O, P, 107 A, B (parts of)	2413
790024*	Geology of the Foxe Fold belt (EAST HALF), Baffin Island Obj: To establish the stratigraphy, structure and metamorphism of the Aphebian sedimentary, volcanic and plutonic rocks in the Piling Group and their relationship to the rocks of the Mary River Group. The structural evolution of Archean "gneiss domes" in the area is also to be studied, and the economic mineral resource potential of the region evaluated.	Henderson, JR	REG	P	NC	Frank	Pts 27 A-D	2421
790025*	Petrology, mineralogy, geochemistry and mineral potential of a Heikian non-orogenic granitic suite in central Labrador and adjacent Quebec. Obj: To improve understanding of the conditions and processes that control concentrations of U, Sn, Be, W and Mo in non-orogenic granitic suites.	Emslie, RF	REG	CS	PET	Nfld, Que	Parts of 13 M, 14 D, 23 P, 24 A	2421
790026*	Geological evaluation of crystalline, sedimentary and seabed terranes for radio-active waste disposal. Obj: On behalf of AECL/EMR to manage geological research program in the evaluation of crystalline, sedimentary and seabed terranes as potential host rocks for radio-active waste disposal.	Sanford, BV	REG	CS	A	Ont Sask NS	-	2453
790027*	Quaternary stratigraphy Yarmouth region, Nova Scotia Obj: To document the Quaternary stratigraphy of the southeast coast of Nova Scotia in the vicinity of Yarmouth.	Grant, DR	TS	-	RP	NS	20 O, 21 A, B	2413
790028	Seabed Mosaics/Mapping Engineering Development Program (COP1) Obj: Huntec '70 Limited is to design, produce and test various modular subsystems for use with existing AGC profiling and side scanning systems to improve their positional performance and to, by 1982, design, produce and evaluate ready for marketing a full Mosaic facility for quasi-three dimensional plotting of the contours of the ocean floor.	(Dessureault, JG)	AGC	PS	-	-	-	2415



Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
790029*	Gneissic basement to the Fury and Hecla Formation and the Autridge Formation Obj: To map the basement gneisses adjacent to the Fury and Hecla Formation and the Autridge Formation on Baffin Island at a scale suitable for publication at 1:100 000 or 1:250 000. Emphasis to be placed on basement cover relationships and the relationship of basement geology to radioactive anomalies.	Ciezielski, A.	REG	P	SG	Frank	47 D, E, F	2421
790030*	Geology of Nelson Map-area E/2 Obj: a) 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. b) To provide a 1:250,000 synthesis of stratigraphy, structure, metamorphism and mineral deposit potential.	Reesor, JE	REG	CPM	GR	BC	82 F, E½	2421
790031	Geology of the Beaufort-Mackenzie Basin Obj: (1) To integrate all available geological, biostratigraphic, geophysical, and geochemical data for the offshore areas, Beaufort Sea, in order to develop a stratigraphic-sedimentological framework and an appreciation of the petroleum potential. (2) Undertake a sedimentological and petrographic analysis of selected zones within the Tertiary in order to understand reservoir character and distribution. (3) To do detailed correlations of Lower Cretaceous-Upper Jurassic rocks, set up a stratigraphic framework and do sedimentological interpretations.	Dixon, J.	ISPG	RG	SM	Mack, Frank Yk	107 B-H; 117; 97 F, H	2421
790032	Identification of Mesozoic and Tertiary Continental Microfloras from Northwest Territories, Yukon Territory, British Columbia, Alberta Obj: To determine floral successions from scattered and widely separated Tertiary Basins in order to establish Biostratigraphic Zonations and to interpret depositional environments.	Hopkins, W S, Jr.	ISPG	P	MP	Yk BC Alta	-	2431
790033	Geochemistry of Mineral Occurrences and their Host Rocks in the Northern Cordillera Obj: Through geochemical studies, to assist in determining; (1) the origin of selected mineral occurrences; (2) criteria which can be used in the exploration for new and possibly deeply buried mineral deposits; (3) geochemical methodology for the identification and differentiation of stratigraphic units, thereby assisting in stratigraphic correlations.	Goodfellow, W D	RG	GG	RS	Yk	105 O, I	

Project Number	Title	Project Leader	Div	Subdiv	Sec	Prov	NTS	Dept'l Classification
790034*	Shallow Seismic Surveys Obj: To map the thickness of surficial deposits by seismic methods for geological mapping and engineering projects.	Gagne, RM	RGG	TG	SM	NB Yk	21 0/1 116 P/9	2413
790035*	Coastal Reconnaissance of Bylot and N.E. Baffin Islands, N.W.T. Obj: To map and analyze the coastal environments of Bylot and N.E. Baffin Islands, N.W.T. To provide information on the shore types, sediments and processes affecting the shoreline stability which will serve as background information for the evaluation of effects of offshore drilling in Lancaster Sound in the event of a well blowout.	Taylor, RB	AGC	EMG	C G D	Frank	27 G, 37 H, 38 A, B, C, 48 A, D	244
790036*	Sediment Dynamics Monitor (Ralph) Obj: To design, build and test an instrument to investigate the dynamics of sediments in water depths ranging from a few metres to 200 M for bottom durations of up to 45 days.	Heffler, DE	AGC	PS	SD	-	-	244
790037*	Ocean Bottom Seismometers at A.G.C. Obj: To carry on the development of the Ocean Bottom Seismometer (OBS) system now in use at AGC. Future developments will be acoustic release, better tape recorders, study of seismic coupling and response problem, improved playback facilities and other improvements which are agreed to be important. Also, to maintain existing OBS's.	Heffler, DE	AGC	PS	SD	-	-	2421
790038	Middle and Upper Devonian Rocks in Central B.C. and Alberta Obj: To establish and apply conceptual models of deposition of the original sediments in terms of environment and paleogeography, their subsequent diagenesis and correlation.	Geldsetzer, HHJ	ISPG	RG	M	BC Alta	83 E, L; 93 H, I, O, P	2421
790039	Development of data management system for marine geophysical data Obj: To provide a capability for the efficient storage of potential field data collected in marine geophysical surveys. To enable portions of the data to be effectively retrieved for use by AGC (and external) personnel. To facilitate the identification and correction of errors and inaccuracies in the data values.	Martin, G M	AGC	PSS	D S	-	-	2417
790040	Taxonomy, biostratigraphy, paleoecology and paleobiogeography of Mesozoic-Cenozoic agglutinated foraminifera. Obj: A. To clarify the taxonomy of Late Mesozoic-Cenozoic agglutinated foraminifera. B. To establish an agglutinated foraminiferal biostratigraphy of more than local significance in Upper Mesozoic-Cenozoic strata. C. To understand the distribution in space and through time of predominantly agglutinated foraminiferal assemblages in sedimentary basins and to formulate models for this distribution.	Gradstein, F	AGC	EPG	-	-	-	2431
790041	Lardeau map-area, B.C. Obj: To complete terminal report and related geological, structural and mineral deposits maps and structure sections for publication at 1:250,000 scale.	Wheeler, JO	C	-	-	B.C.	82 K (W½)	2421

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