

MINERAL AND CONTINENTAL GEOSCIENCES

Current Assets: Facilities Usage

<u>Operation</u>	<u>Facility</u>	<u>Area</u>	<u>sq. metres</u>
Administration and Research	601 Booth St. Ottawa,	Offices	3,551
		Labs,	3,425
		Storage	3,573
Storage	Tunney's Pasture Ottawa	Storage	4,086
		Office	167
Research	588 ⁶¹⁵ Booth St. Ottawa	Offices	929 606
Research	Dominion Observatory Complex, Ottawa	Offices	400
Research	401 Lebreton	Office	56
		Lab	204
Research	562 Booth St.	Lab	275
Storage	City Centre 880 Wellington	Storage	557
Storage & Research	CROSS CANADA HANGER Alert Hangers Ottawa Airport	Storage	1,064
		Offices	209
		Labs	
Administration and Research	CGQ/INRS Sainte-Foy, Quebec	Offices	325
		Labs	shared
RESEARCH	BLACKBURN COMPLEX	Storage	
	Total space	OFFICE	300
		LABS.	18,821

2. Decentralization: Slow decentralization to the regions has been compensated in Ottawa by the need for more laboratory space as the level of technical sophistication in the geosciences has increased.
3. Space Optimization: Research scientists' offices function as both offices and technical workspace. These are already crowded and there is a severe shortage of common work area (project rooms, conference rooms).
4. Co-location: N/A
5. Program Direction: Recent changes in program direction have all been accomplished through special initiatives which rely heavily on contracting out and which have little impact on capital requirements.
6. Privatization: N/A
7. Technological Change: Increased computerization and sensitivity of research equipment require improved environmental control systems and power supply upgrading.
8. Funding Issues: Funding for major facilities upgrading (601 Booth Street and Observatory Crescent) is included in Finance and Administration's capital planning for 1992-93 to 1995-96.

GEOPHYSICS & MARINE GEOSCIENCE

<u>Operation</u>	<u>Facility</u>	<u>Area</u>	<u>sq. metres</u>
Administration Research & Storage	Dominion Observatory Complex, Ottawa	Offices	3,121
		Comp/ Labs	644
		Storage	469
Research & storage	1517 MONTCALM ST. Laperrière Ave Ottawa	Storage	972
Research & Storage	Blackburn Complex Blackburn Hamlet Ottawa	Storage	313
		Labs	1,197
		Office	327
Seismic Network	Locations throughout Canada	Various	
Archival	211 Montcalm Hull, Quebec	Storage	660 2100
Research	Photo Zenith Tube Shirleys Bay	Computer	13
	Observatory Gatineau, Quebec	Labs	60
	Photo Zenith Tube Priddis, Alberta	Computer	376
	Seismic/Magnetometer Station Mould Bay, N.W.T.	Computer	599 120
	Geomagnetic/ Seismographic Station Yellowknife, N.W.T.	Computer	400
	Seismograph/ Magnetometer Facility Alert, N.W.T.	Computer	128
Administration and Research	Bedford Institute of Oceanography. AGC, Dartmouth N.S.	Offices	2,003 1916
		Labs	770 1070
Storage	Bedford Institute of Oceanography	Storage	2,289 1461
Administration and Research	Institute of Ocean Sci. (with DFO/EMR/DOE) PGC - Patricia Bay Sidney, B.C.	Office	1,394
		Labs	604
		Storage	418
	Total space		16,757

2. Decentralization:

There are no plans to decentralize present functions.

3. Space Optimization:

Major opportunities to optimize space usage have long since been exploited. Minor adjustments to overcrowded conditions continue to be made.

GEOPHYSICS (SUITE)

Influence

Long Term Effect

4. Co-location: Two of the units are already co-located with Fisheries and Oceans. Co-location of seismographic stations at observatories of other agencies is routinely investigated as part of any change to the seismographic network.
5. Program Direction: Program direction evolving towards more regional studies will increase pressure on present facilities and equipment.
6. Privatization: N/A
7. Technological Change: Developments in data processing and communications are having a major impact on the geophysical programs of the Sub-Activity. Extremely large data files, extensive processing and the need to gather data in real time from observatory networks are resulting in the acquisition of more sophisticated computers and of communications equipment capable of handling large data volumes.
8. Funding Issues: Requirements for resources to gather and analyze information continue to outstrip available operating funds. Funding for major facilities upgrading is included in Finance and Administration's capital planning for 1990-91 to 1995-96.

PCSP

<u>Operation</u>	<u>Facility</u>	<u>Area</u>	<u>Sq. metres</u>
PCSP HQ	344 Wellington St. Ottawa	Office	476
		Warehouse	20
Base	Resolute Base Complex Resolute N.W.T.	Accommodation and Kitchen	1590
		Storage	1847
		Admin.	128
		Lab.	75
Base various buildings	Tuktoyaktuk N.W.T.	Accommodat.	611
		Kitchen	224 110
		Storage	57 408
		Admin.	37
		Operating	463 391
Base	Ice Island Arctic Ocean	Accommodat.	450 193
		Kitchen	40
		Storage	320 105
		Admin. & Navigation	30
		Wkg. Bldgs.	520 206
		Total space	

4. Co-location: Space is being made available to locate the PCSP headquarters on Booth Street, close to the Activity's headquarters.
5. Program Direction: Over next 5 years, Arctic research programs, particularly environmentally related research programs, are expected to continue to grow.
6. Privatization: N/A
7. Technological Change: Modern buildings at Resolute and upgrading at Tuktoyaktuk together with better communications will improve service. PCSP is conducting a pilot project using photovoltaic units as alternate energy sources in field camps.

INFORMATION SERVICES

Note: The ADM's office moved from 580 to 601 Booth in April 1990.

<u>Operation</u>	<u>Facility</u>	<u>Area</u>	<u>Sq. Metres</u>
Admin. Services	580 ⁶⁰¹ Booth St. Ottawa	Offices	284 102
Program Planning	601 Booth St. Ottawa	Offices	2,656
Publications		Storage	324
Library, Admin. Services		Library	706
Administration		Display	337
		(Logan Hall) Meeting room	128
			<u>4435</u>

2. Decentralization: Some decentralization of the preparation of publications is anticipated. However, this is likely to be offset by a greater need for quality control in Ottawa. Decentralization will increase requirements for communications equipment and services.
3. Space Optimization: Library materials and work spaces have been consolidated to the limit.
4. Co-location: N/A
5. Program Direction: Methods of publication production and types of publications are changing with the introduction of digital methods. The amount of space required is expected to stay the same. The quality of space needs to be upgraded as sophisticated equipment replaces traditional production techniques. Digital techniques are already having a major impact on equipment purchases.
6. Privatization: N/A
7. Technological Change: Computer based publication technologies are having a major impact on scientific publication. Capital equipment budgets in this Sub-Activity are dominated by the requirement to automate cartography and manuscript preparation. Administrative functions are rapidly becoming computerized, requiring major upgrading of communication networks.

Current Assets: Facilities Usage

<u>Operation</u>	<u>Facility</u>	<u>Area</u>	<u>Sq. metres</u>
Administration Research	601 Booth St. Ottawa	Offices	501 336
		Storage	none 37
		Labs	316 223
Administration Research & Storage	401 Lebreton Ottawa	Offices	15717 1110
		Storage	761
		Labs	51 391
Research	Tunney's Pasture Health Protection Ottawa, Ontario	Labs	478
Admin. and Research	ISPG 3303-33rd St. Calgary, Alberta	Office	15,672 5672
		Labs	288 950
		Storage	500 5000
Research	1 Discovery Place Calgary, Alberta	Office	940
	601 Booth Street Ottawa, Ontario	Office Storage	279 465
Admin. and Research	Cordilleran Division 100 West Pender St. Vancouver, B.C.	Office	2,375
		Labs	1,219
		Storage	500
	993 - 1st Street W. Vancouver, B.C.	Storage	465

2. Decentralization: The decentralization of national fossil collections and related functions will place pressure on space in Calgary. This situation is critical.
3. Space Optimization: Space has already been squeezed to the limit.
4. Co-location: ISPG is a stand-alone facility. The Vancouver office is in rented quarters; while some discussion has taken place about co-location with the BC Ministry of Energy, Mines and Petroleum Resources, this possibility remains beyond the planning period.
5. Program Direction: Program direction evolving towards more regional studies will strain present facilities and equipment.
6. Privatization: Not applicable.
7. Technological Change: Increased computerization and sensitivity of research equipment require improved environmental control systems and power supply upgrading.
8. Funding Issues: Funding for major upgrading of 601 Booth is in the departmental plan for 1992-93 to 1994-95. Further resources are urgently needed to expand the Calgary facility.