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CORE-STORAGE PROGRAM, 1987

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INTRODUCTION

During 1979, the Newfoundland Department of Mines and Energy began a drill core collection and storage program. The objective of this program is to provide well-maintained and representative collections of drill core for the future use of the mineral exploration industry, government and university geoscientists and other geotechnical people.

DRILL CORE COLLECTION

During 1987, drill core collection continued in insular Newfoundland. A total of 60,872.8 m of drill core were added to our collection this year. Of this total, 48,880.5 m were acquired from Western Canadian Mining (old Brinex drilling) when the department leased a core-storage building located on the former Brinex base camp at Springdale. Another 5,608.5 m of core were collected by project personnel and 6,389.2 m of core were delivered to our facilities, for confidential storage, by mineral exploration companies.

Activities in Labrador this past year were limited to the inspection of company core-storage sites in the eastern part of the Central Mineral Belt and in western Labrador, and the cataloging of core collected during 1986.

Approximately 246,800 m of drill core are now being stored. Figures 1 and 2 show the locations of all sites where core has been collected and Tables 1 and 2 give a list of the collected core. Recently acquired confidential core, some condensed core and core acquired with the Springdale facility but not cataloged because of insufficient data are shown as 'Other' in Table 1.

DRILL-CORE LIBRARIES

The Department of Mines now operates four core-storage libraries located at St. John's, Pasadena, Goose Bay and Springdale (Figure 3). The St. John's library is staffed on a full-time basis except during the field season. It has a capacity of 60,000 m of drill core and now houses approximately 38,365 m of drill core samples. The St. John's library is equipped with a rock saw, a stereomicroscope, a magnetic-susceptibility meter, a resistivity meter, an ultraviolet light and a McPhar TV-1 scintillometer. This facility and equipment are available for use on approved projects by exploration geologists, university researchers, staff of the Department of Mines and other interested persons.

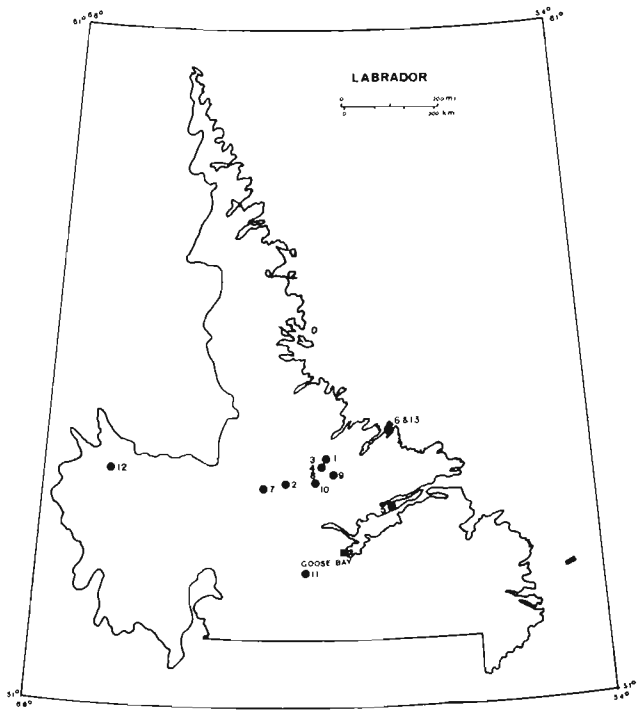

Figure 1. *Core-collection sites, Labrador.*

The Pasadena core library is also staffed on a full-time basis. This library has equipment similar to the St. John's library along with a ventilated room for storing radioactive core and a humidity-controlled room for storing salt core. The Pasadena core library is near full capacity with only a little working space remaining for new core additions.

The Goose Bay core library, which contains core from Labrador, is not staffed on a full-time basis. It has facilities similar to, and shares equipment with, the St. John's core library.

The Springdale core library is not staffed on a full-time basis and is operated by the resident Pasadena geologist on an appointment basis only. It contains a core splitter and rock saw and shares geotechnical instruments with the Pasadena core library.

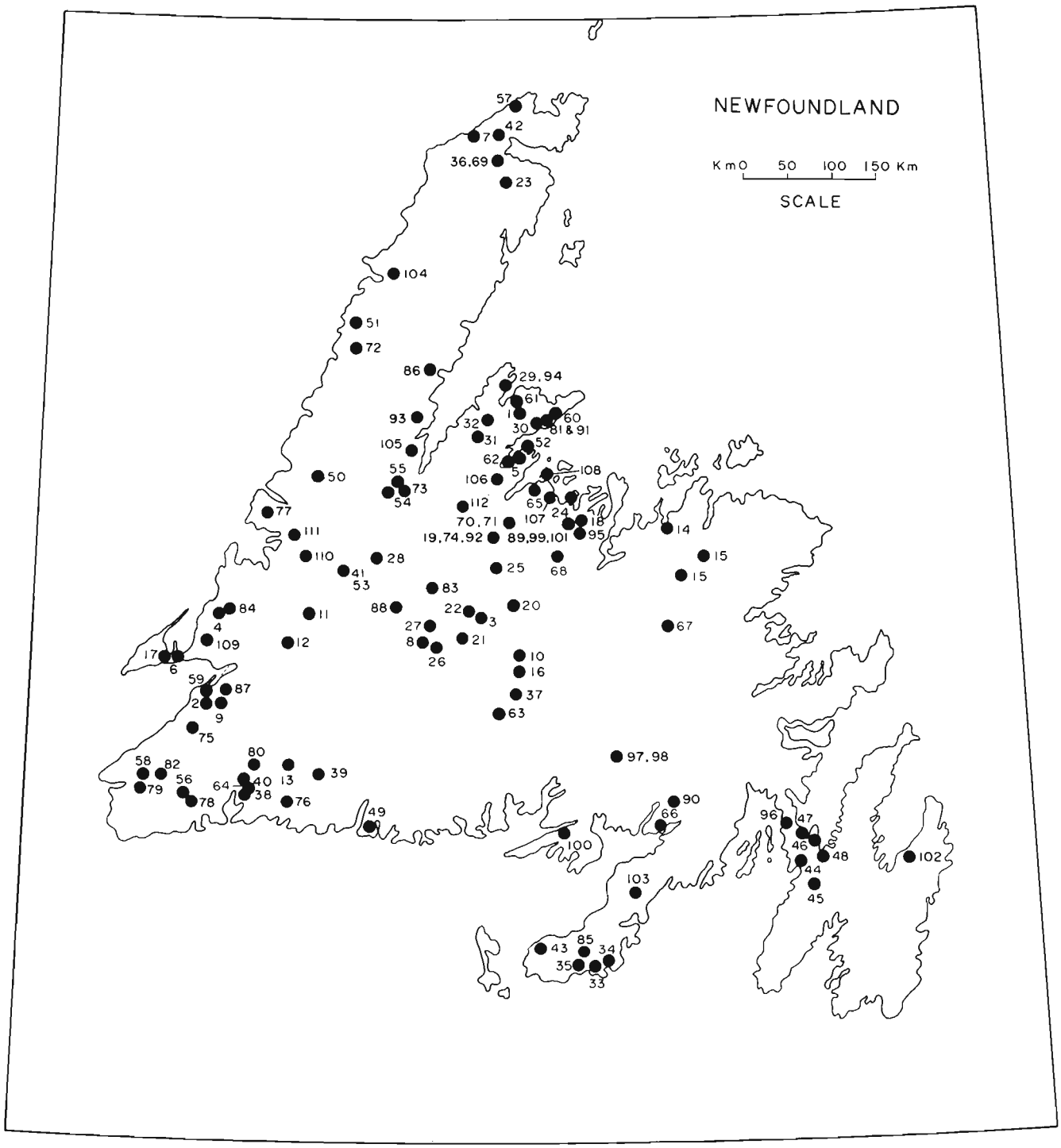

Figure 2. *Core-collection sites, insular Newfoundland.*

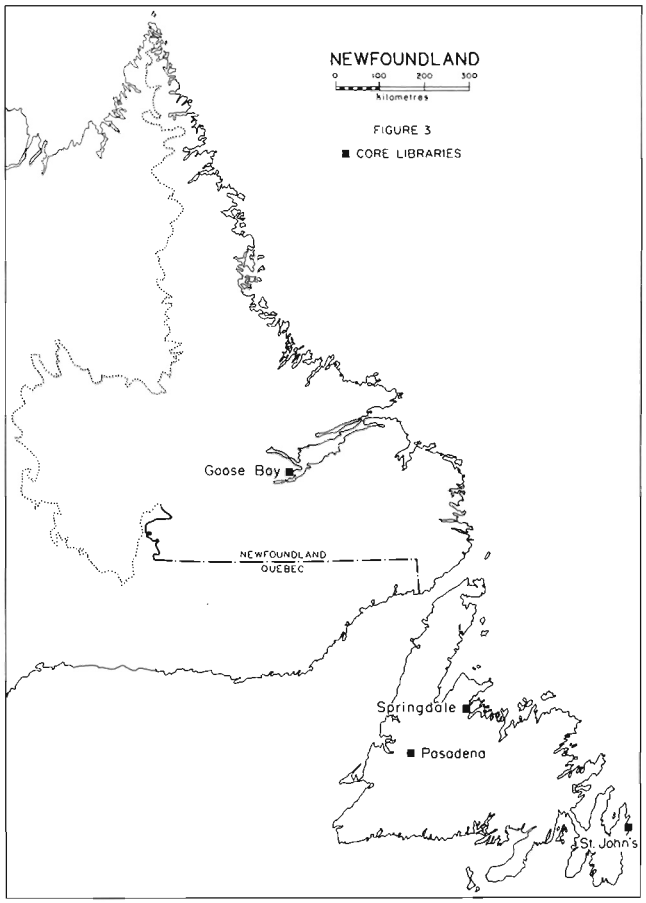

Figure 3. *Core libraries in the province of Newfoundland and Labrador.*

PLANS

The construction of core-storage racks in the proposed Buchans core-storage library will be completed within the 1987-88 fiscal year. It is anticipated that all core available from the Buchans cotenancy of ASARCO and Abitibi-Price will be moved into this building in 1988 when the Department assumes control of the site.

The core-storage program is experiencing a worsening space problem as our core-sample collections continue to increase. The department is taking a two-pronged approach to the space problem by: 1) pursuing expansion to existing facilities and acquiring or renting new core storage facilities, and 2) adopting a policy of selective core collection and reduction.

Preliminary guidelines for core reduction have been drafted and are being applied to our core collection from the Deer Lake Basin as part of a pilot project to test and further refine the guidelines. The results of this exercise are reported elsewhere in this volume.

Table 1. Summary of core collected to date–insular Newfoundland

No.	Company	Year	Property	# of Holes	Total Metres	Storage Location
1	Advocate	1967	Rambler	2	1,193.0	P
2	Amax	1976	Fischells Area	2	1,420.3	P
3	Amoco	1978	Burnt Pond	4	609.6	P
4	Beth Canada	1978	Springer's Hill	10	911.7	P
5	Boylen-Cerro		Colchester	18	1,379.2	P
6	Canadian Ref.	1970	Aguathuna	13	850.1	P
7	Chevron	1979	Eddies Cove	11	481.6	P
8	Cominco-Hansa	1973(?)	Bobby's Pond	5	431.6	P
9	Hooker Chemical	1968	Fischells	1	173.4	SJ
10	HBOG	1978	Gt. Rattling Bk.	11	818.6	P
11	HBOG	1978	Reid Lot 223	5	306.3	P
12	HBOG	1978	Reid Lot 225	2	117.0	P
13	HBOG	1978	Top Pond	1	47.1	P
14	Internat. Mogul	1974	Campbellton Area	15	1,394.5	P
15	Internat. Mogul	1975	Gander Area	12	708.7	P
16	Minorex	1978	Atlantic Lake	6	439.5	P
17	Nfld. Mines Branch		Port au Port	?	811.5	P
18	Noranda	1972	Point Leamington	3	265.8	P
19	Noranda	1973	Gullbridge	1	54.9	P
20	Noranda	1975	Leonard's Lake	3	388.6	P

Table 1. *(Continued)*

No.	Company	Year	Property	# of Holes	Total Metres	Storage Location
21	Noranda	1975-78	Tally Pond	2	489.2	P
22	Noranda	1978	Burnt Pond	2	165.0	P
08	Noranda	1978	Bobby's Pond	4	320.6	P
23	Shell Can. Res.	1975-76	Main Brook Area	32	1,859.3	P
24	Texas Gulf	1975	Seal Bay	8	1,104.9	P
19	Gullbridge Mines	?	Gullbridge	213	12,473.9	P
25	Consol. Morr.	1976	Lake Bond	2	419.1	P
26	L.M. & E.	?	Lake Ambrose	6	647.7	SJ
27	Kerr Addison	1974-75	Victoria Area	5	655.3	P
28	Shawmont	1977-78	Hinds Brook	28	822.9	SJ
29	Advocate	?	Priests Showing	8	774.8	P
30	Advocate	?	Nippers Harbour	7	946.1	P
31	Advocate	1976	West Pond	3	144.7	P
32	Advocate	1975	Flatwater Pond	11	907.6	P
33	ALCAN	?	St. Lawrence	?	8,153.4	SJ
34	D.S. Robertson	?	Mt. Margaret Area	?	4,463.8	SJ
35	D.S. Robertson	?	Lawn Area	?		SJ
36	Noranda	?	Round Pond Area	?	?	P
37	RIOCANEX	1976	Cold Spring Pond	1	30.0	SJ
38	Falconbridge	1979	Strickland Property	?	4,427.2	P
39	Falconbridge	1981	Burgeo Road	16	1,059.2	P
40	Long Lac Min.	1968	Strickland Property	18	975.3	P
41	Minorex	1978-80	Deer Lake	25	1,993.3	P
42	U.S. Borax	1979	Hidden Pond	11	237.6	P
43	Nfld. Mines Branch	1960's	Fortune (Silica)	3	199.9	SJ
44	Nfld. Mines Branch	1960's	Long Harbour (Silica)	6	232.5	SJ
45	Nfld. Mines Branch	1960's	Argentia (Silica)	11	731.6	SJ
46	Nfld. Mines Branch	1960's	Thornlea (Silica)	6	230.9	SJ
47	Nfld. Mines Branch	1960's	Bellevue (Silica)	7	187.1	SJ
48	Nfld. Mines Branch	1960's	Long Cove (Silica)	4	164.1	SJ
49	Nfld. Mines Branch	1960's	Grey River (Silica)	6	256.2	SJ
50	Nfld. Mines Branch	1960's	Bonne Bay (Silica)	4	197.2	SJ
51	U.S. Borax	1981	Daniels Harbour	2	804.6	P
52	Minorex	1981	Silverdale	7	203.6	P
53	Minorex	1979-80	Deer Lake	?	109.7	P
54+	Westfield Minerals	1978-81	Deer Lake	130	8,314.9	P
55	Northgate Expl.	1979	Deer Lake	16	2,511.5	P
56	RIOCANEX	1978-81	Cape Ray	171	20,461.0	P
57	Essex	1981	Watts Bight	4	609.6	P
58	Shell Can. Res.	1980	Codroy Valley	6	890.0	P
59	Flintkote	1979-80	Flat Bay	?	3,214.0	P
60+	Newmont	1981	Tilt Cove	6	864.1	P
61	Rambler Mines	?	Ming Mine	64	9,150.0	P
62	Brinex	?	Whalesback	235	12,226.0	S
63	RIOCANEX	1976	Great Burnt Lake	9	1,463.0	P
64	St. Joe Can.	1982	Big Pond	9	707.0	P
65	Billiton	1981	Ghost Pond	3	668.0	P
66+	Esso Minerals	1982	Ackley Granite	5	280.0	SJ
67	HBOG	1980	Gander Lake South	7	296.1	P
68	HBOG	1980	New Bay Pond	6	356.8	P
69	NAREX ORE SEARCH	1983	Round Pond	21	402.3	P
70	U.S. Borax	1983	Handcamp	7	683.8	P
71	Falconbridge	1979	Handcamp	9	730.6	P
72	Eldorado Nuclear	1979	Portland Creek	1	113.1	P
73	Westfield Minerals	1978	Wigwam Brook	12	576.0	P

Table 1. *(Continued)*

No.	Company	Year	Property	# of Holes	Total Metres	Storage Location
74	Dupont Canada Expl.	1983	Gullbridge	2	312.0	P
75	Nfld. Mines Branch	1983	Robinson's River	1	343.2	P
76-80	Confidential Storage	1983-5	Southwest Nfld.	49	7,769.0	P
81+	Rio Algom	1984	Burtons Pond	6	517.6	P
82+	Getty Mines	1984	Anguille Mountains	2	297.0	P
83+	Can. Nickel Co. Ltd.	1982-3	Badger Area	22	1,767.9	P
84	Asamera Inc.	1984	Bluff Head	7	1,101.5	P
85	BP Minerals Ltd.	1974	Burin Peninsula	11	1,188.7	SJ
86	Nfld. & Lab. Hydro	1977-82	Cat Arm	10	1,417.3	P
87+	Pronto Exploration	1980	Barachois Brook	2	977.8	P
88	Noranda	1983	A.N.D. Charter-JB	10	1,072.8	P
89+	Noranda	1971-84	Central Nfld.	50	11,068.3	SJ
90+	Rio Algom	1985	Ackley Granite	3	333.7	P
91+	Rio Algom	1986	Burtons Pond	2	202.2	P
92+	Esso Minerals	1985	Gullbridge	2	129.0	P
93+	BP-Selco	1985-6	Sops Arm-Rattling Brook	16	1,613.2	P
94	Baie Verte Mines	1978	West Pit	7	840.2	P
95	Getty Mines	1982	Frozen Ocean Pond	3	352.0	P
96	Tasu Resources	1983	La Manche	3	312.3	SJ
97	Kidd Creek Mines	1985	Great Gull Pond	5	568.9	SJ
98	Falconbridge	1986	Bay D'Espoir Highway	4	397.5	SJ
99+	Noranda	1986	Central Nfld.	6	1,422.0	SJ
100+	Noranda	1985	Hermitage Area	4	1,257.0	SJ
101	CAN-MET	1985	Point Leamington	3	342.9	SJ
102	Nfld. Minerals Ltd.	1967-9	Manuels Oval Mine	47	3,243.0	SJ
103	Novamin Resources Inc.	1986	Stewart Option	4	822.1	SJ
62	Brinex	1968	Whalesback	60	Condensed	S
104	Brinex	1976-79	Port au Choix	10	581.0	S
105	Noranda	1977-79	Sop's Arm	32	1,393.1	S
106	Brinex	1966	Duck Pond	4	599.7	S
106	Brinex	1969	Vein Pond	2	237.6	S
106	Brinex	1981	Catchers Pond	4	440.0	S
106	Brinex	1978-80	Davies Pond	10	1,220.8	S
106	Brinex	1978	Halls Bay	5	666.6	S
106	Brinex	1980	Lobot Lake	2	235.8	S
106	Brinex	1962	Muir Pond	6	564.0	S
106	Brinex	1964	Lady Pond	7	835.6	S
106	Brinex	1964	Brown's Pond	3	313.5	S
106	Brinex	1966	Road Shear	3	624.4	S
106	Brinex	1967-69	Rendell Jackman	9	1,137.6	S
106	Brinex	1967-69	Sullivan Pond	16	1,978.2	S
106	Brinex	1968-69	Sterling Property	51	9,584.9	S
106	Brinex	1969	Buckshee Pond	4	513.5	S
106	Brinex	1970	Colchester Pond	10	1,539.3	S
107	Brinex	1977	Ghost Pond	3	293.9	S
107	Brinex	1967	Roberts Arm	3	446.9	S
107	Brinex	1961	Round Pond	5	934.9	S
107	Brinex	1970	Crescent Lake	5	430.4	S
108	Brinex	1980-82	Oil Island	10	1,566.7	S
108	Brinex	1983	Long Island	4	749.0	S
12	Brinex	1978	Glover Island	5	248.6	S
109	Brinex	1975	Table Mountain	4	184.5	S
17	Brinex	1973-75	Port au Port	59	5,978.8	S
110	Brinex	1974	Raft Pond	10	915.8	S
111	Brinex	1966	Bonne Bay	6	471.2	S

Table 1. *(Concluded)*

No.	Company	Year	Property	# of Holes	Total Metres	Storage Location
112	Brinex	1961-76	Indian Pond	16	1,818.7	S
105	U.S. Borax	1985-86	Unknown Brook	18	2,551.0	S
105	U.S. Borax	1986	Corner Brook Pond	1	----	S
105	U.S. Borax	1986	Taylor Pond	2	243.7	S
	OTHER				20,757.0	S, P
	TOTAL				233,433.6	

P −Pasadena Core Library
SJ−St. John's Core Library
S −Springdale Core Library

\+ Temporary Confidential Storage

Table 2. Summary of core collected to date−Labrador

No.	Company	Year	Property	# of Holes	Total Metres	Storage Location
1	American Metal Co.	1954	Green Pond	3	16.7	GB
2	BRINEX	1972	Seal Lake	19	1,333.5	GB
3	Canadian Nickel Co.	1978-80	Moran Lake	30	2,103.1	GB
4	Mokta Can. Ltd.	1965	Moran Lake	8	220.9	GB
5	Northgate Explor. Ltd.	1980	Lake Melville	8	652.2	GB
6	Placer Devel. Ltd.	1980-81	Banana Lake	11	655.3	GB
7	RIOCANEX	1961	Ten Mile Lake	4	197.5	P
8	Shell Can. Res.	1977-79	Moran Lake	61	3,822.2	GB
9	Shell Can. Res.	1977	Sylvia Lake	3	99.4	GB
10	Shell Can. Res.	1977	Madsen Lake	2	114.8	GB
11	Nfld. and Lab. Hydro	?	Gull Island		1,037.8	GB
12	L. M. & E. Ltd.	1979-84	Labrador Trough	38	1,513.0	GB
13	Brinex	1969	Makkovik Area	9	1,600.0	GB
				Total	13,366.4	

GB−Goose Bay Library
P−Pasadena Library