

CORE STORAGE PROGRAM, 1982

by

A. Harris and S. Cochrane

During 1979, the Newfoundland Department of Mines and Energy started a drill core collection and storage program. The primary objective is to provide well maintained and representative collections of drill core from as many drilling programs as possible for the future use of the mineral exploration industry, government geoscientists, university geoscientists and other geotechnical people.

I. Drill Core Collection

During the 1982 field season, drill core collection from abandoned drill sites was continued in Insular Newfoundland and started in Labrador. In Insular Newfoundland, 55,430 m of core were collected from 21 drilling projects. In addition, the 32,345 m of core at a temporary storage site in Pynn's Brook was moved into the Pasadena core library. Figure 1 shows the location of sites from which core has been collected in Insular Newfoundland and Table 1 provides a list of the collected core.

In Labrador, 8,804 m of drill core were collected from seven sites and moved into the Goose Bay core library. The collection effort in Labrador during 1982 concentrated on the western part of the Central Mineral Belt, NTS area 13K. Figure 2 shows the location of sites from which core has been collected in Labrador and Table 2 provides a summary of the collected core.

New acquisitions of drill core from Labrador and Insular Newfoundland during 1982 total 62,029 m. To date, the core storage program has collected 120,306 m of drill core.

The Department of Mines and Energy is presently storing some drill core on a confidential, temporary basis. Proposed legislation regarding the storage of core classified as confidential is presently being finalized. It is expected that confidentiality of drill core will be tied to land status and will be similar to the terms and conditions of confidentiality which presently apply to assessment reports.

Another measure under consideration to assist our efforts in the acquisition and preservation of drill core is the offering of assessment credits to exploration companies to cover the cost of delivering core to our core libraries.

II. Drill Core Libraries

The Department of Mines and Energy now operates three drill core libraries. These libraries are located in St. John's, Pasadena and Goose Bay (Figure 3).

The St. John's core library is fully operational and is staffed on a full-time basis, except during the field season. It has capacity of 60,000 m of drill core. Approximately 12,000 m of drill core have been cataloged and placed on the rack system to date. Most of this core is from eastern Newfoundland, from the St. Lawrence area and the "silica survey" drilling conducted by the provincial government during the 1960's. Drill hole logs and location maps have been prepared for cataloged core. The St. John's library also contains rock cutting equipment, core splitters, a stereomicroscope, a

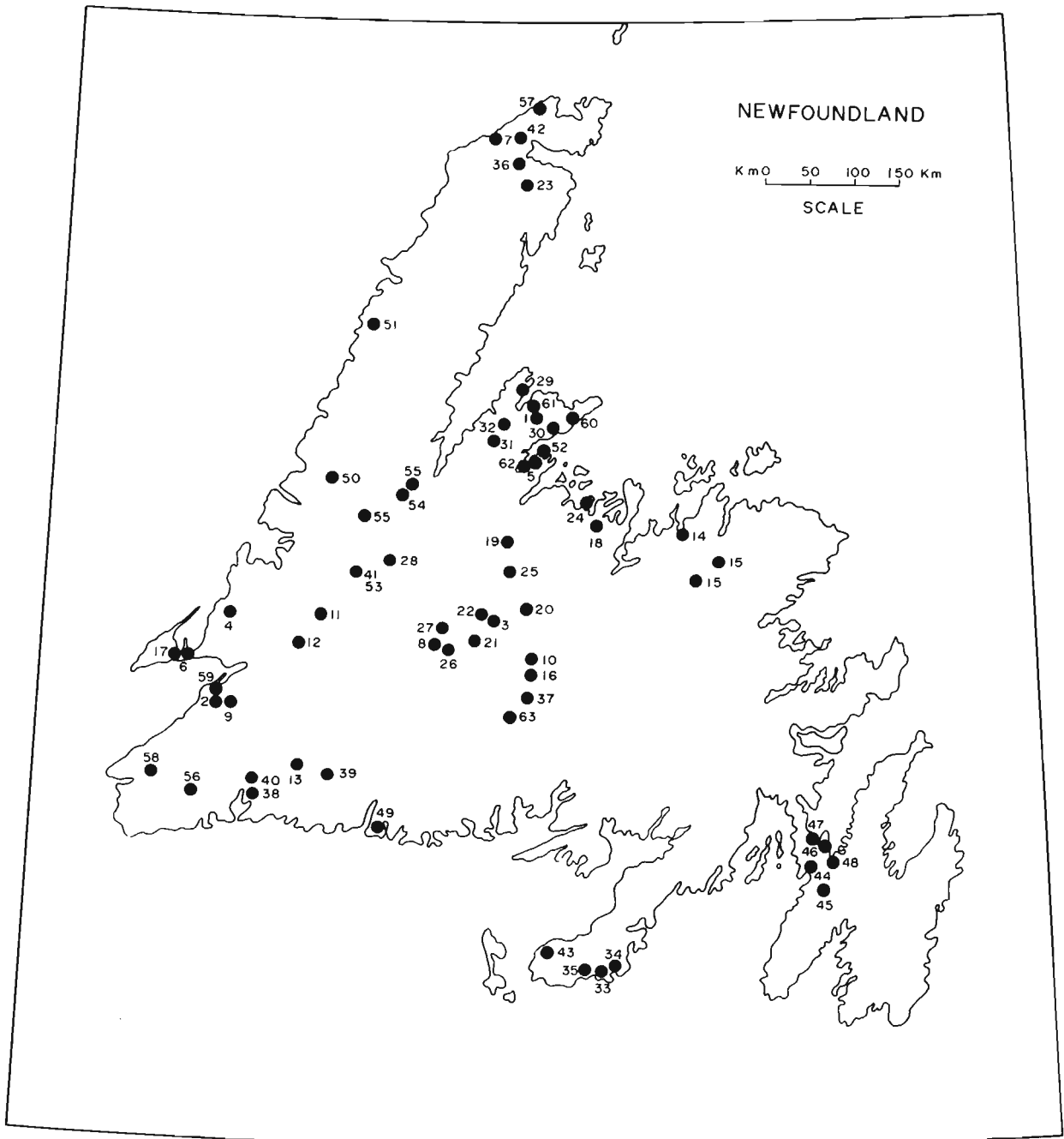


FIGURE I. CORE COLLECTION SITES
INSULAR NEWFOUNDLAND

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	TS
2	Amax	1976	Fischells Area	2	1,420.3	P
3	Amoco	1978	Burnt Pond	4	609.6	TS
4	Beth Canada	1978	Springer's Hill	10	911.7	P
5	Boylen-Cerro		Colchester	18	1,379.2	TS
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	TS
9	Hooker Chemical	1968	Fischells	1	173.4	SJ
10	HBOG	1978	Gt. Rattling Bk.	11	818.6	TS
11	HBOG	1978	Reid Lot 223	5	306.3	TS
12	HBOG	1978	Reid Lot 225	2	117.0	TS
13	HBOG	1978	Top Pond	1	47.1	TS
14	Internat. Mogul	1974	Campbellton Area	15	1,394.5	TS
15	Internat. Mogul	1975	Gander Area	12	708.7	TS
16	Minorex	1978	Atlantic Lake	6	439.5	TS
17	Nfld. Mines Br.		Port au Port	?	811.5	P
18	Noranda	1972	Point Leamington	3	265.8	TS
19	Noranda	1973	Gullbridge	1	54.9	TS
20	Noranda	1975	Leonard's Lake	3	388.6	TS
21	Noranda	1975-78	Tally Pond	2	489.2	TS
22	Noranda	1978	Burnt Pond	2	165.0	TS
08	Noranda	1978	Bobby's Pond	4	320.6	TS
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	P
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		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

TABLE 1 (Cont'd)

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	?	13,637.0	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	60	17,153.0	P
62*	BRINEX	?	Whalesback	54	3,456.0	P
63**+	Riocanex	1976	Great Burnt Lake	9	1,463.0	P
Total					111,304.4 m	

Key -

- P - Pasadena Core Library
- SJ - St. John's Core Library
- TS - Temporary Storage Springdale
- * - Collected 1982
- + - 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
Total					9,001.4 m	

Key -

- GB - Goose Bay Library
- P - Pasadena Library
- * - Collected 1982
- + - Temporary Confidential Storage

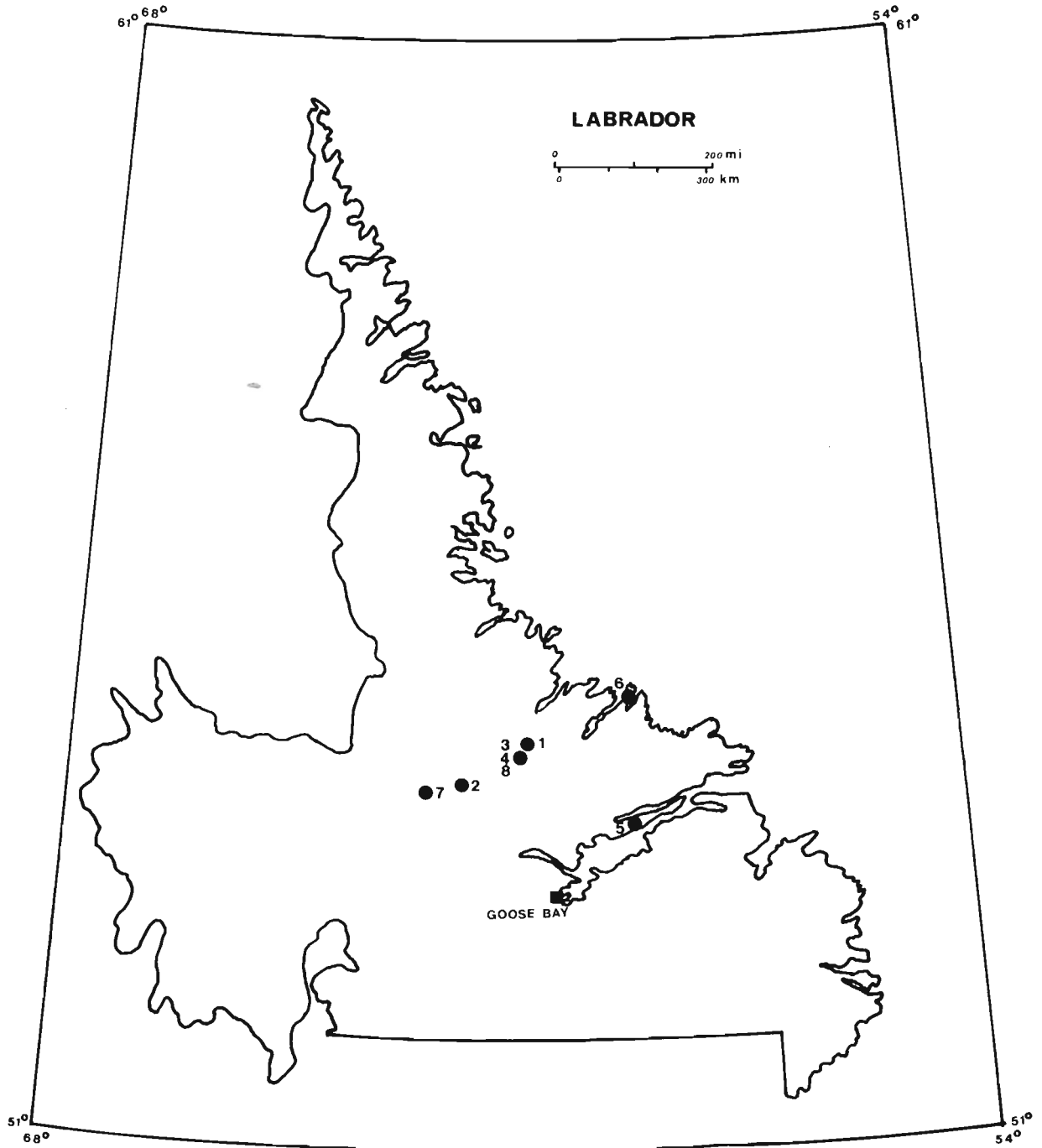
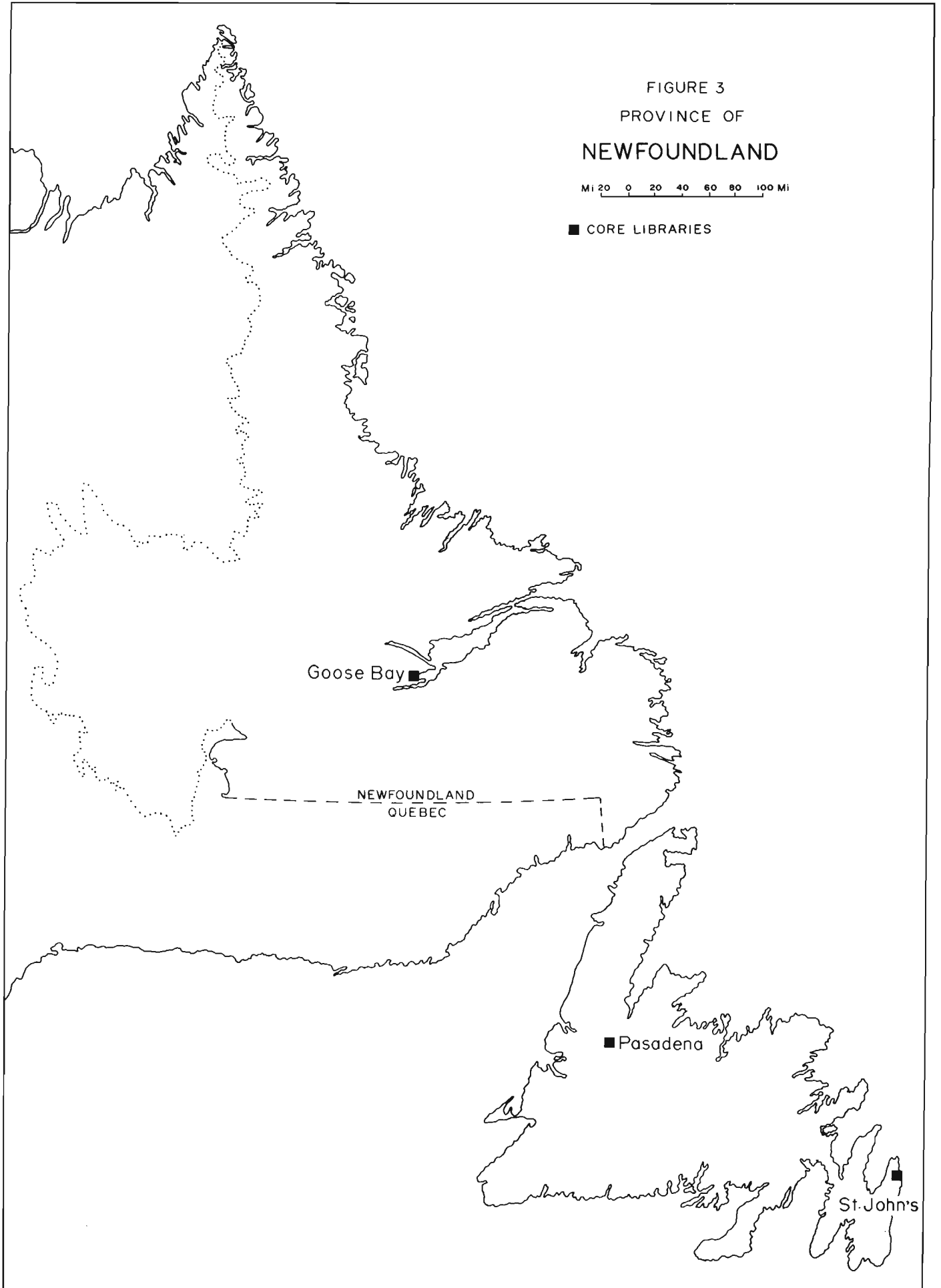


FIGURE 2. CORE COLLECTION SITES LABRADOR



magnetic susceptibility meter, a resistivity meter, an ultraviolet light and a McPhar TV-1 scintillometer. These facilities and equipment are available for use on approved projects by exploration geologists, university researchers, the staff of the Department of Mines and Energy and other interested persons.

The Pasadena core library is also fully operational and is staffed on a full-time basis. This library has equipment and facilities similar to the St. John's library and has a capacity of 200,000 m of core. It has a ventilated room for storing radioactive core and a humidity-controlled room for storing salt core. There are approximately 85,000 m of core presently stored in the Pasadena library, collected from drilling sites west of Gander.

The Goose Bay core library has been recently completed but is not yet fully operational and is not staffed on a full-time basis. It has a capacity of

60,000 m of core with space available for future expansion. This library also contains equipment and facilities similar to the St. John's library.

Future Plans

Future plans include cataloging and indexing all the core collected to date and continuing collection programs, with emphasis on St. John's and Pasadena during the offseasons. The cataloging and indexing of core in the Goose Bay library is scheduled for July 1983 and the field collection program in Labrador will continue during the 1983 field season. We encourage operators to bring your drill core to our nearest facility at any time.

A computerized drill hole index has been developed and will continue to grow as indexing of core progresses.

A published drill hole index in map or booklet form is tentatively scheduled for late 1983.