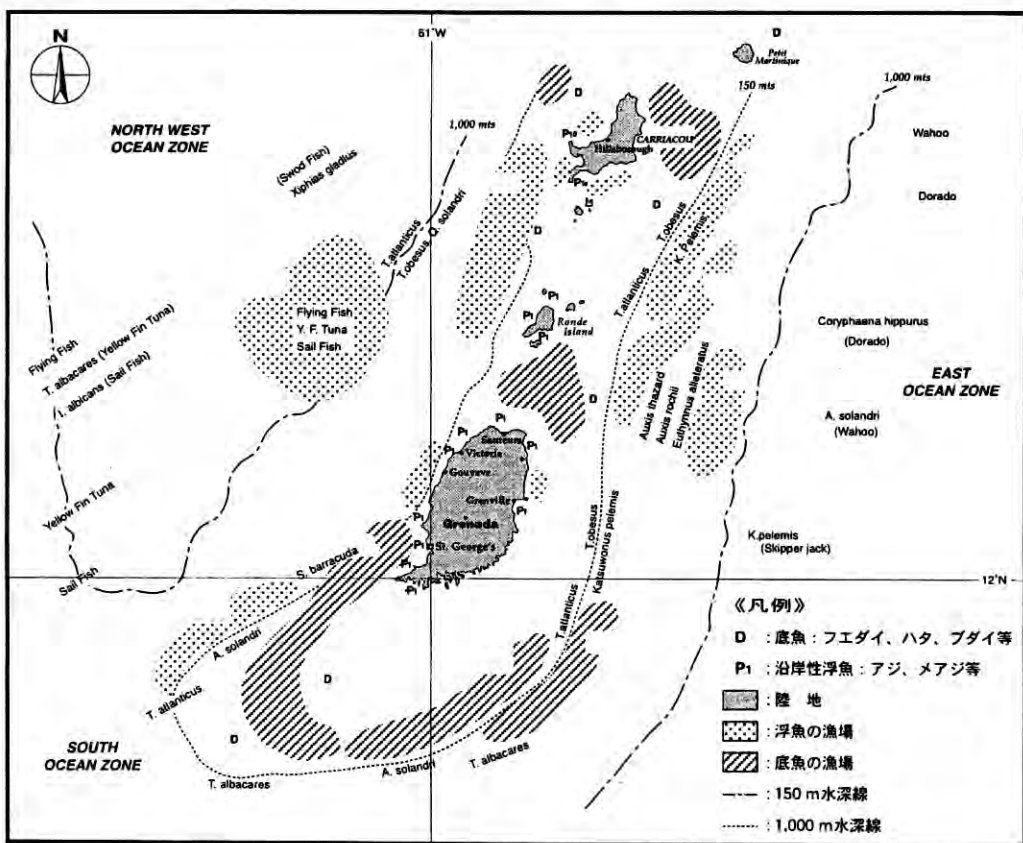
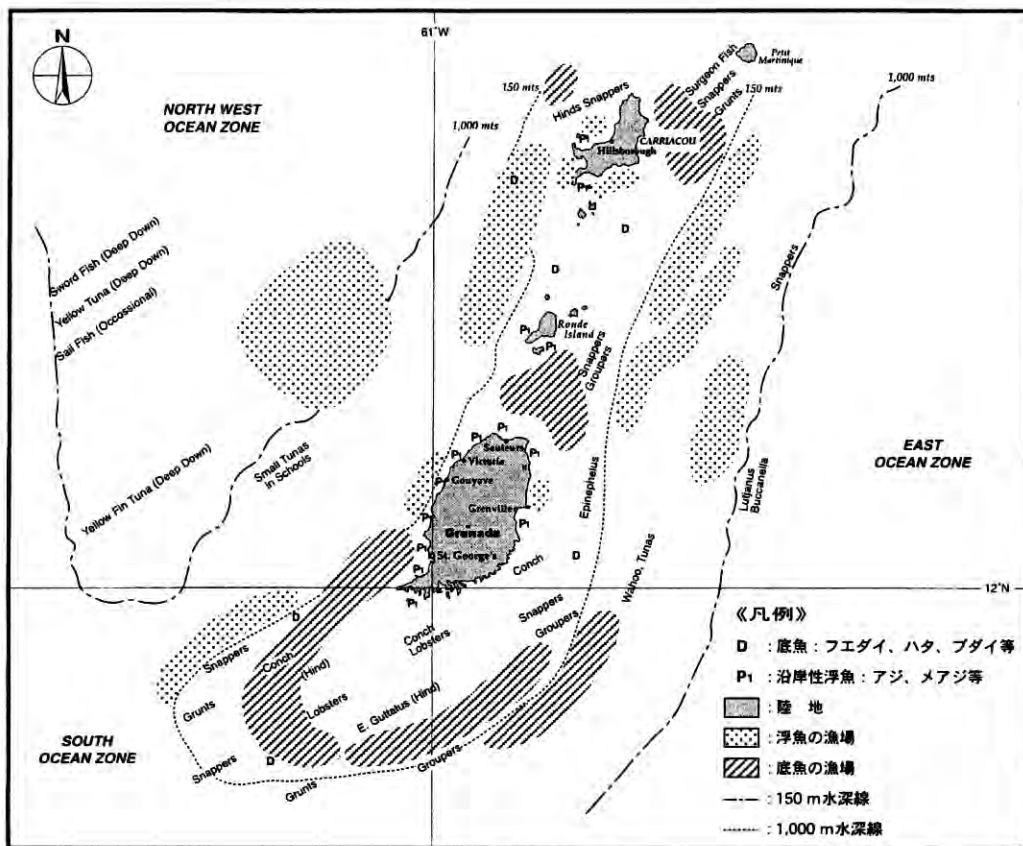


#### 4. 収集資料リスト

区分	資料名	発行機関	発行年	資料番号
国家開発計画	Performance of the Public Sector Investment Program (PISP) 1998	Ministry of Finance	1999	
経済・一般	Macro Economic Review 1998	Ministry of Finance	July 1999	
経済・一般	Fiscal report, 1 <sup>st</sup> half 1999	Ministry of Finance	Sept. 1999	
経済・一般	Estimate of Revenue and Expenditure 2000	Ministry of Finance	1999	
経済・一般	Estimate of Revenue and Expenditure 1996 – 1999 (一部抜粋)	Ministry of Finance	1995 – 1998	
経済・一般	2000 Budget speech	The House of Representatives	Dec. 1999	
経済・一般	Grenada Agricultural Census '95	Ministry of Agriculture	Aug. 1996	
水産	Fisheries Division Corporate Plan 1999	Fisheries Division	1998	
水産	Grenada Commercial Fisheries, Business Plan (GCFL 活動計画)	Charles & Association, Inc.	Jan. 2000	
水産	OECs Regional Fisheries Management/Development, Grenada Profile	Fisheries Division	1998	
水産	Draft Report on the Analysis of Grenada Fisheries Survey Data	CFRAMP	July, 1997	
水産	Grenada Commercial Fisheries Company Ltd. (GCFL), Financial Statement for the year 1999 (一部抜粋)	GCFL	2000	
漁業法	Grenada Fisheries Act, No 15 of 1986		1986	
漁業法	Fisheries Regulations 1987		1987	
漁業法	Fish and Fishery Products Regulations, 1999		1999	
道路	Second Multi-project, Grenada Feasibility Study for the Replacement of 20 Bridges	DESSAU/SOPRIN	Oct. 1999	
道路	Sea Defenses & Road Rehabilitation, 1997 Up-date, Economy Feasibility Study	DIWI	Mar. 1997	
道路	Road Improvement and Maintenance Project Institutional Strengthening, Documents and proposals	DIWI	Apr. 1997	
道路	Road Improvement and Maintenance Project Institutional Strengthening, Five Year Plan 1998-2002	DIWI	Mar. 1997	
道路	Consulting Services for Technical Assistance to the Road Division	DIWI/TAEP	May 1995	

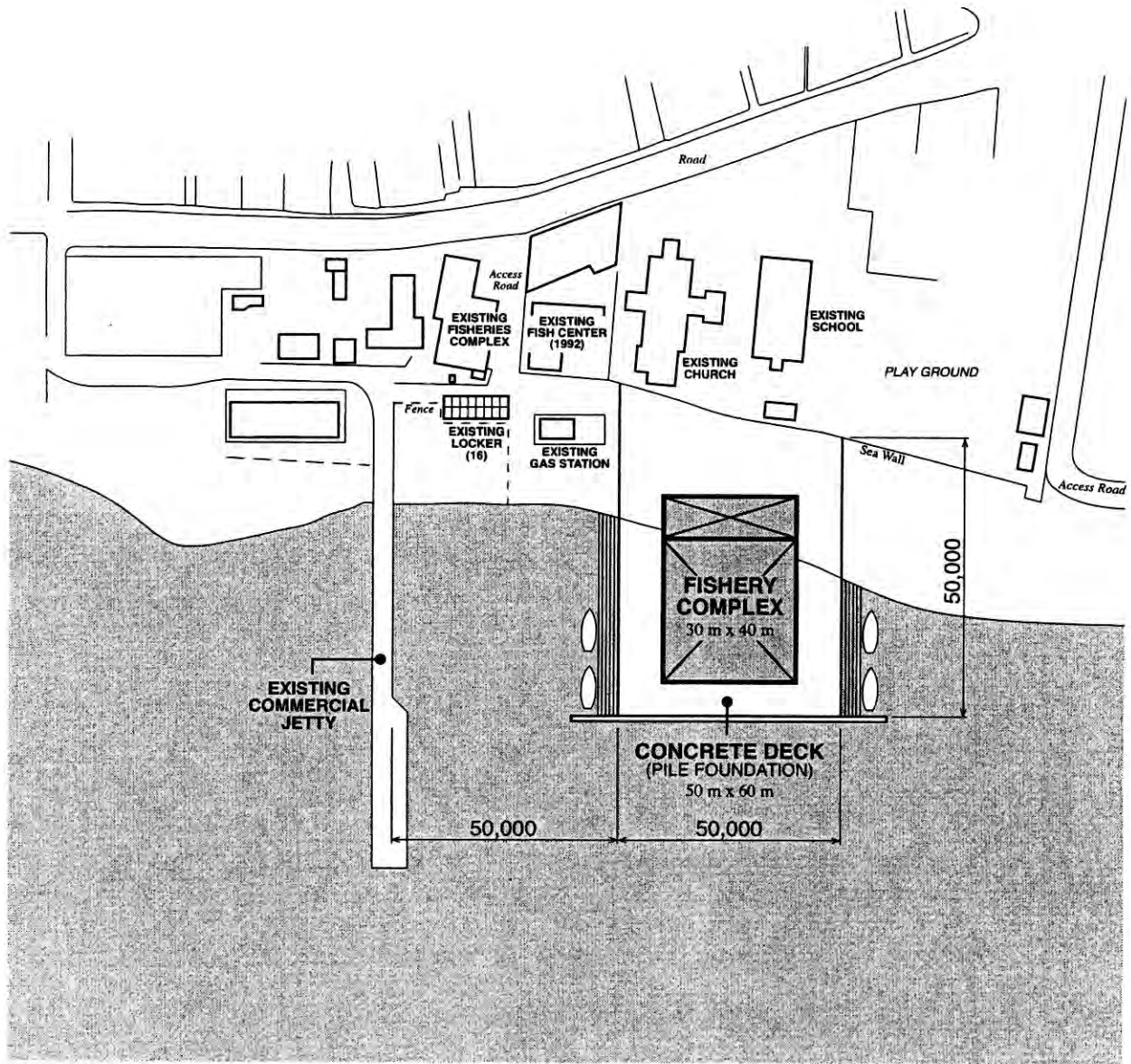
区分	資料名	発行機関	発行年	資料番号
道路	Road Improvement and Maintenance Project, Construction Component, Interim Completion Report	DESSAU/SOPRIN	Nov. 1999	
道路	Road Improvement and Maintenance Project, Airport Road, Contract Drawings	DESSAU/SOPRIN	-	
地形図	Topographical Map, 1/25,000 (グレナダ島南部・北部)	Ministry of Agriculture Land and Survey Division		
海図	Marine Chart, Grenada (グレンヴィル港 100,000 分の 1 含)	Imray-Iolaire	Oct. 1998	
航空写真	グレンヴィル上空 1982 年及び 1992 年(コピー)	Ministry of Agriculture Land Use Division		



付図1 グレナダ水域の資源分布



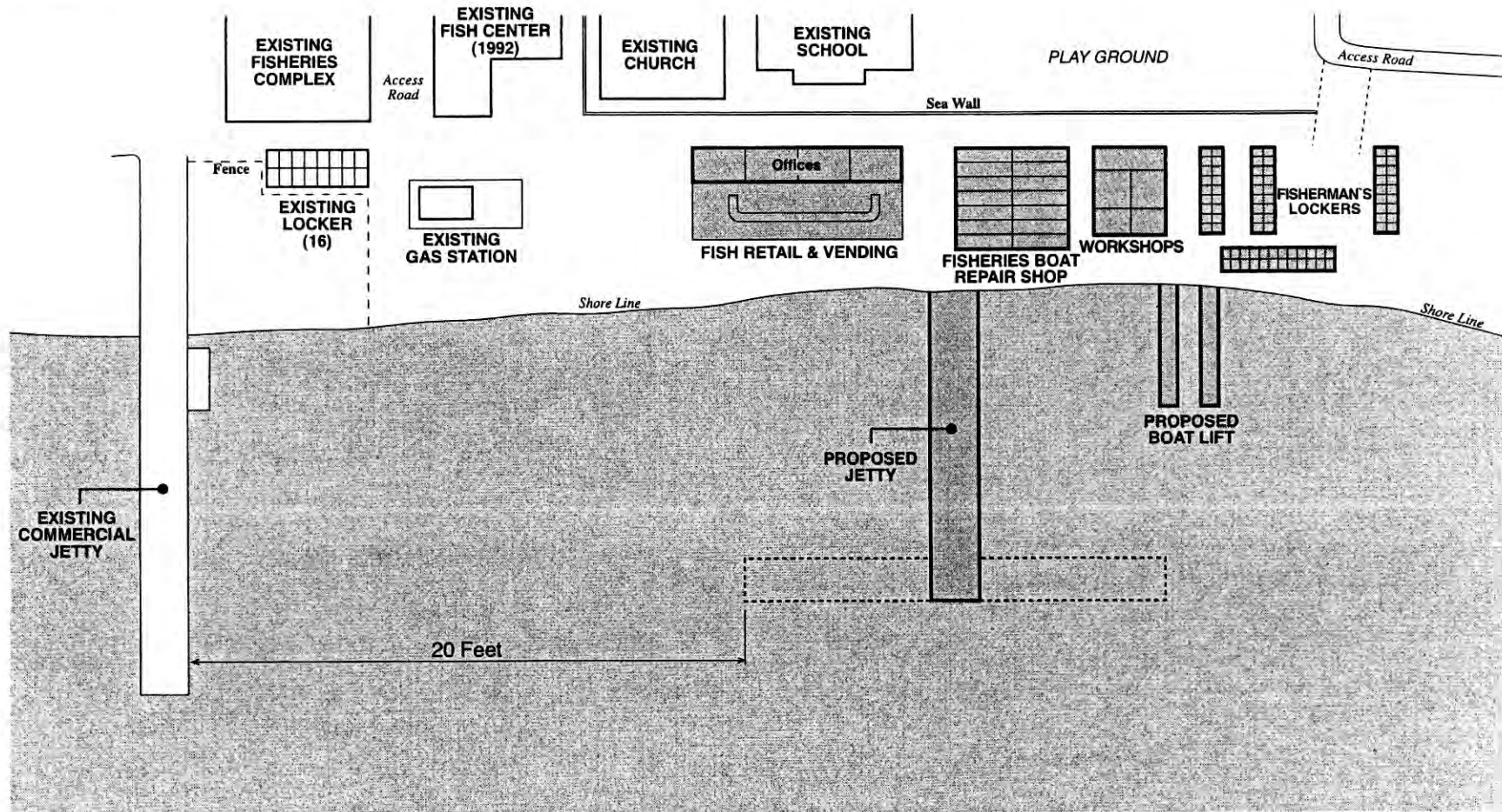
FISH MARKET COMPLEX, GRENVILLE, St ANDREW, GRENADA



付図 2.1 魚市場複合施設－1999 年要請書案



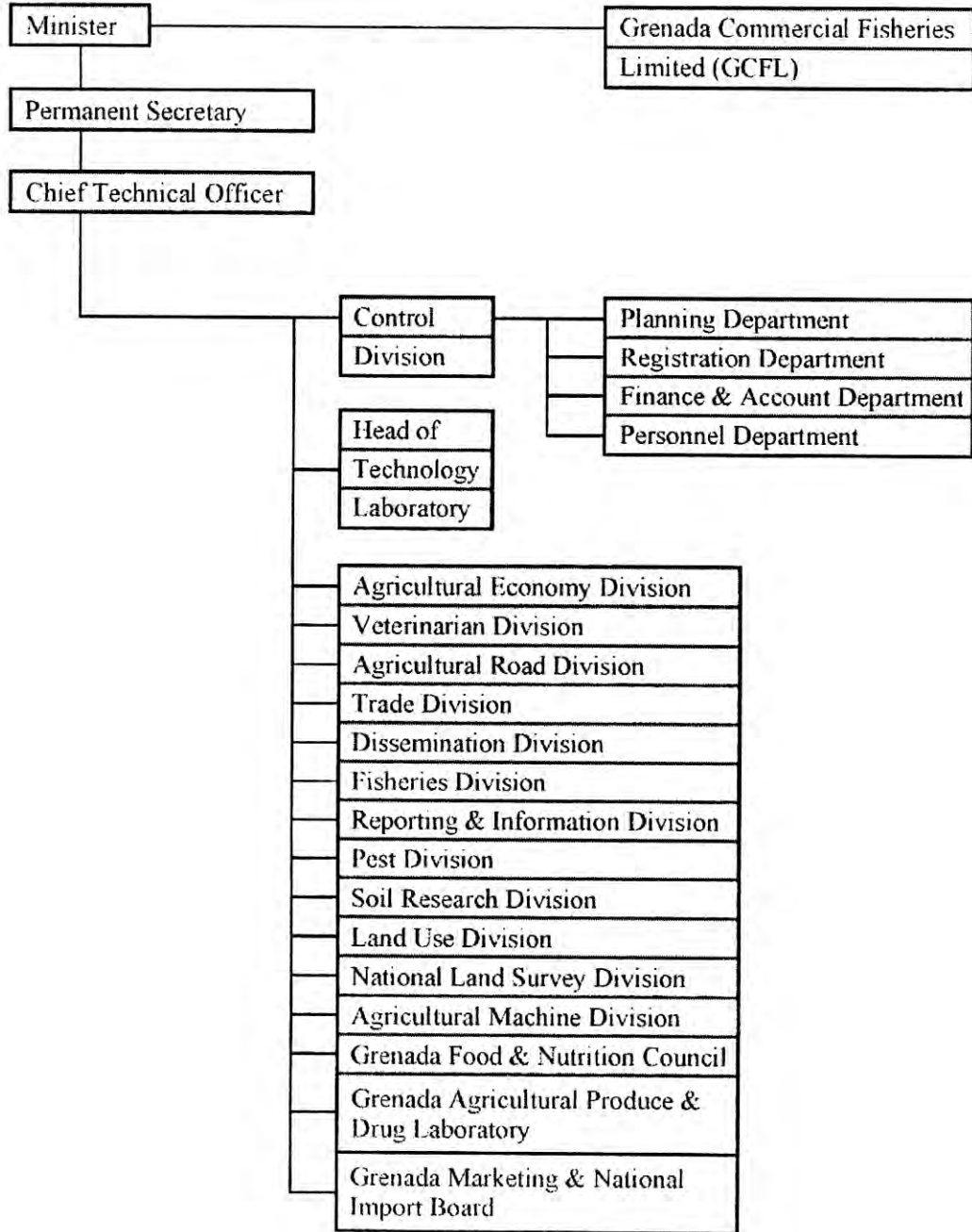
# FISH MARKET COMPLEX, GRENVILLE, St ANDREW, GRENADA



付図 2.2 本調査期間中に提出された魚市場複合施設代替案

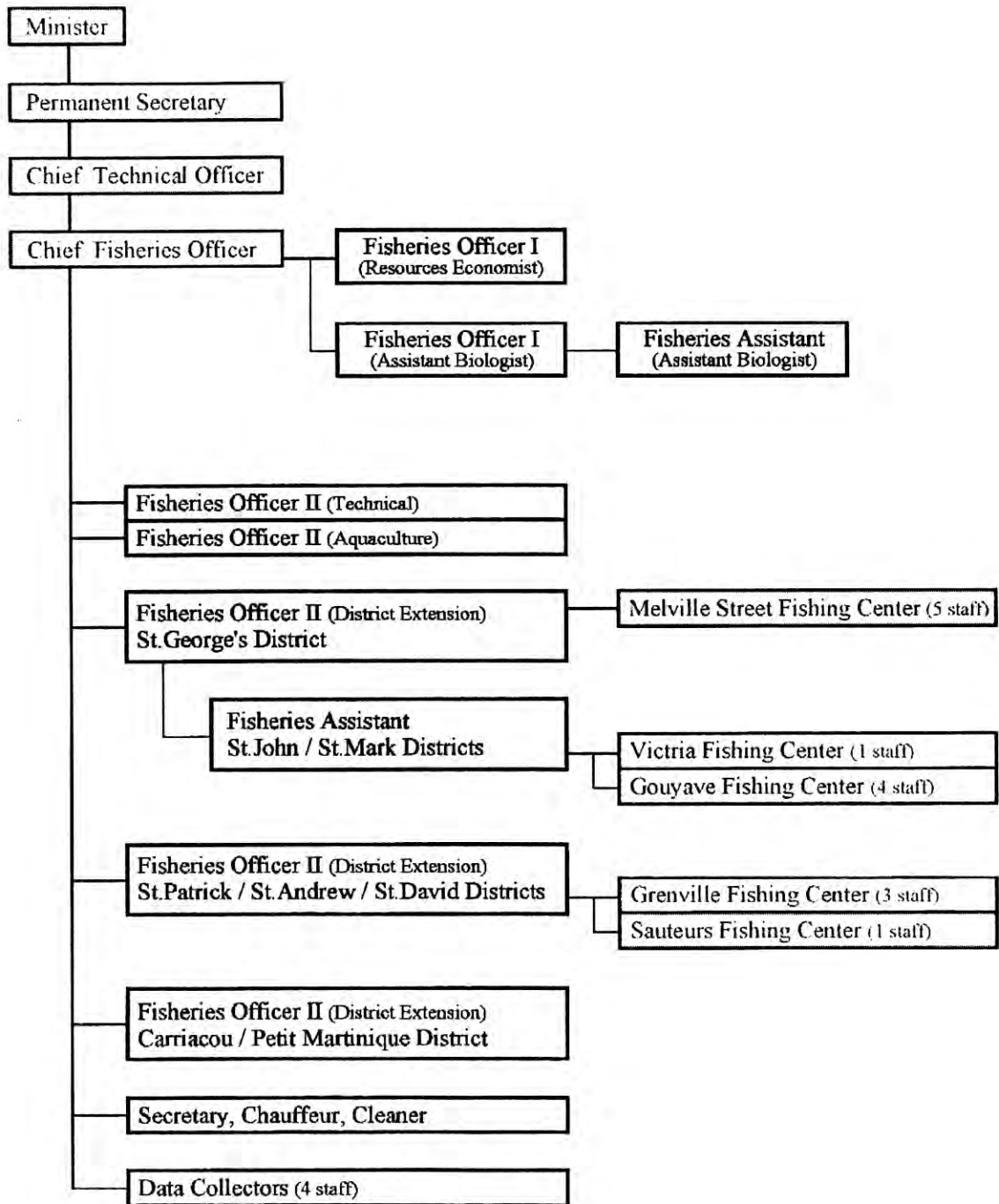
## ORGANIZATION CHART

### 1. Ministry of Agriculture, Lands, Forestry and Fisheries



付図 3.1 農業・土地・森林漁業省組織図

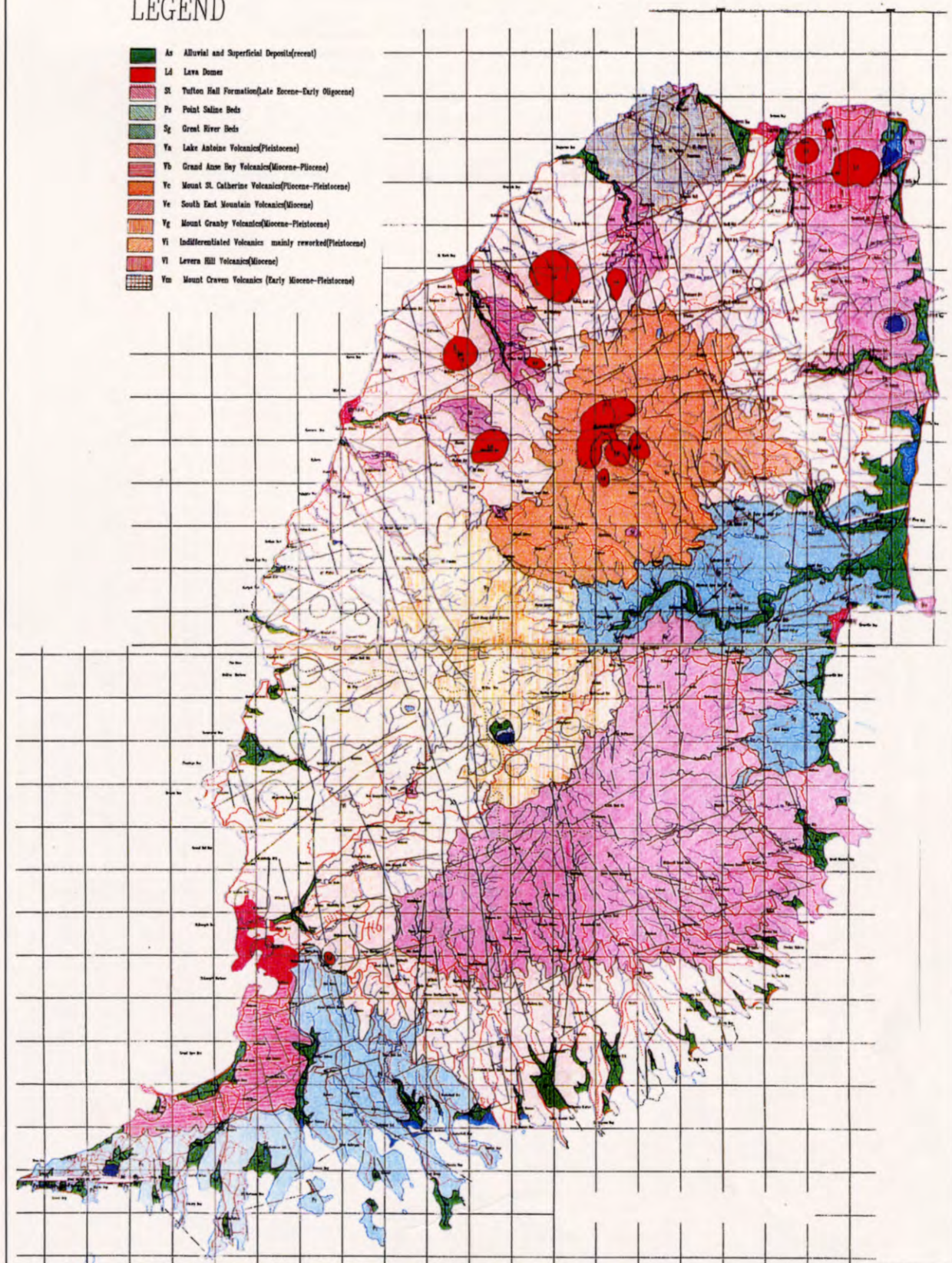
## 2. Fisheries Division



付図 3.2 水産局組織図

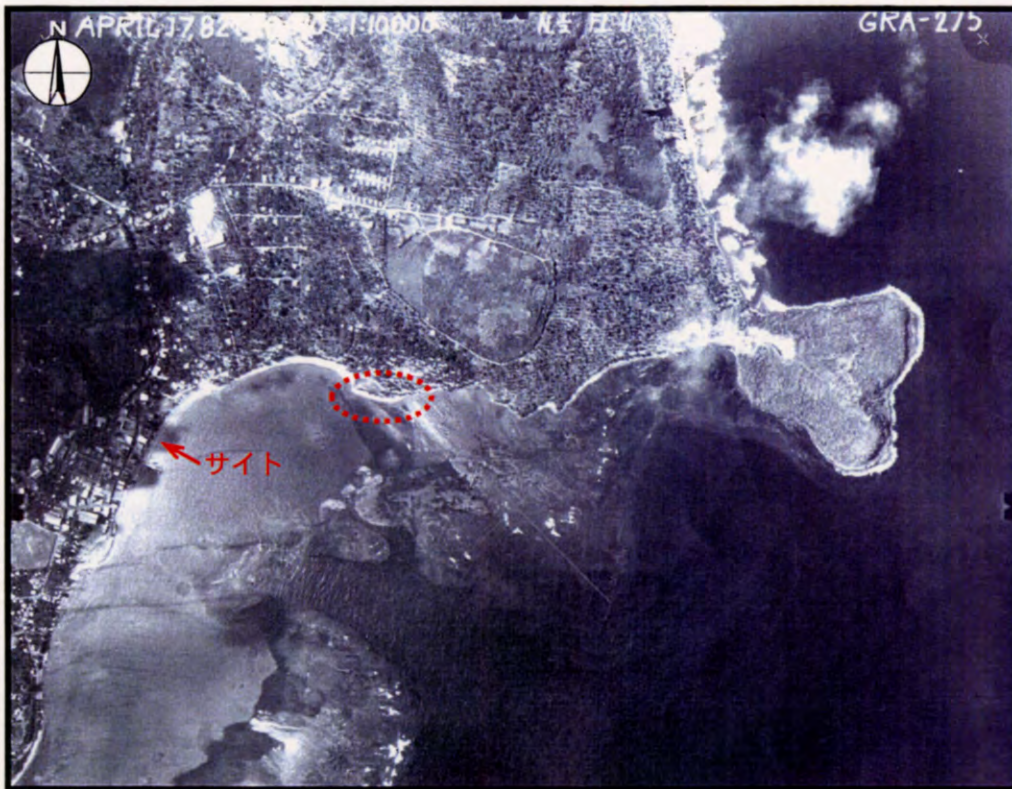
# LEGEND

- As Alluvial and Superficial Deposits (Recent)
- Ld Lava Domes
- St Tuffon Hill Formation (Late Eocene-Early Oligocene)
- Pt Point Saline Beds
- Sg Great River Beds
- Ya Lake Antelope Volcanic (Pleistocene)
- Yb Grand Anse Bay Volcanic (Miocene-Pliocene)
- Yc Mount St. Catherine Volcanic (Pliocene-Pleistocene)
- Ye South East Mountain Volcanic (Miocene)
- Yg Mount Granby Volcanic (Miocene-Pleistocene)
- Vi Indifferentiated Volcanics mainly reworked (Pleistocene)
- Vj Levers Hill Volcanic (Miocene)
- Vm Mount Craven Volcanic (Early Miocene-Pliocene)



付図 4 グレナダ島の地質図



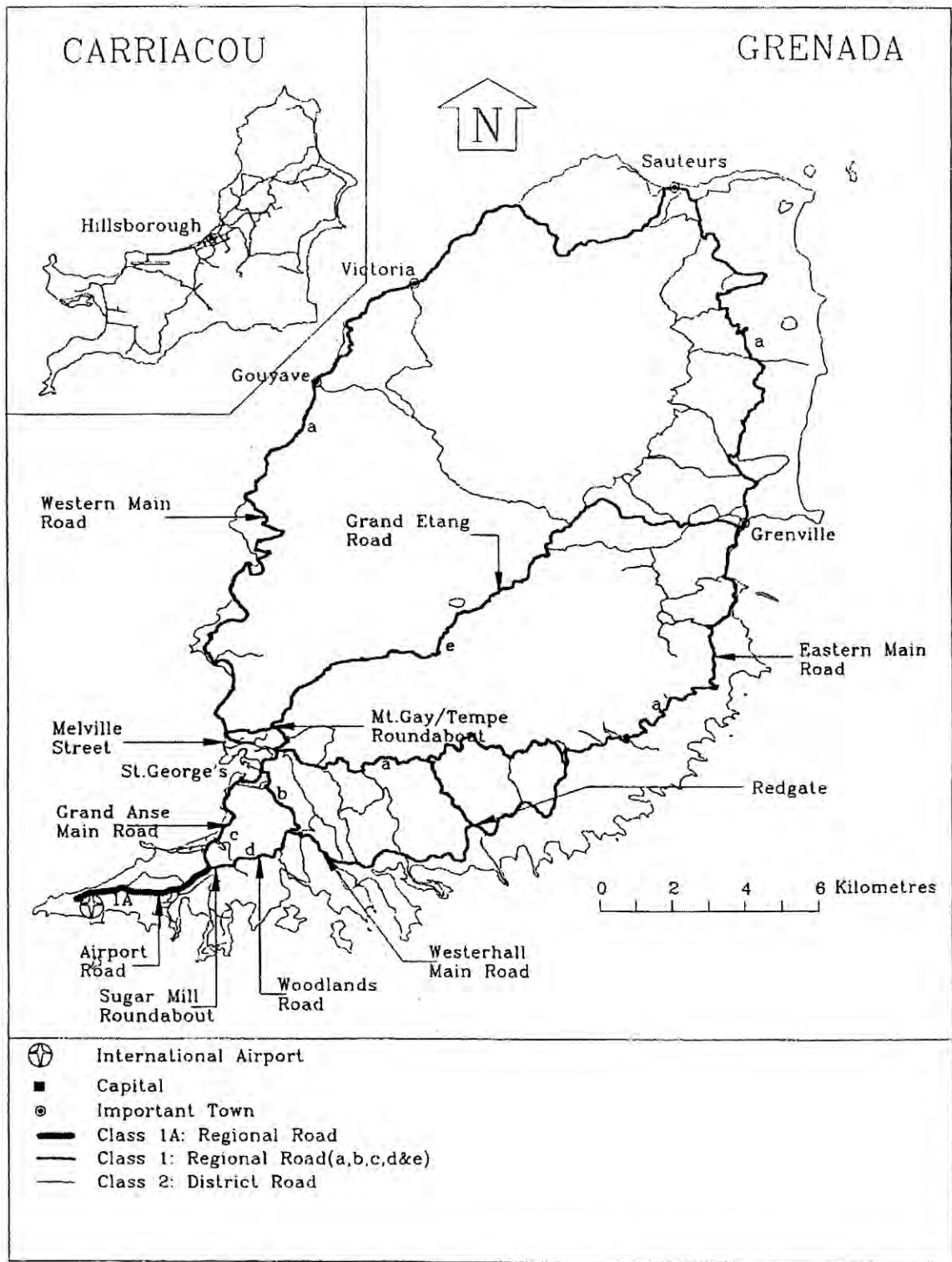


1982年4月17日撮影

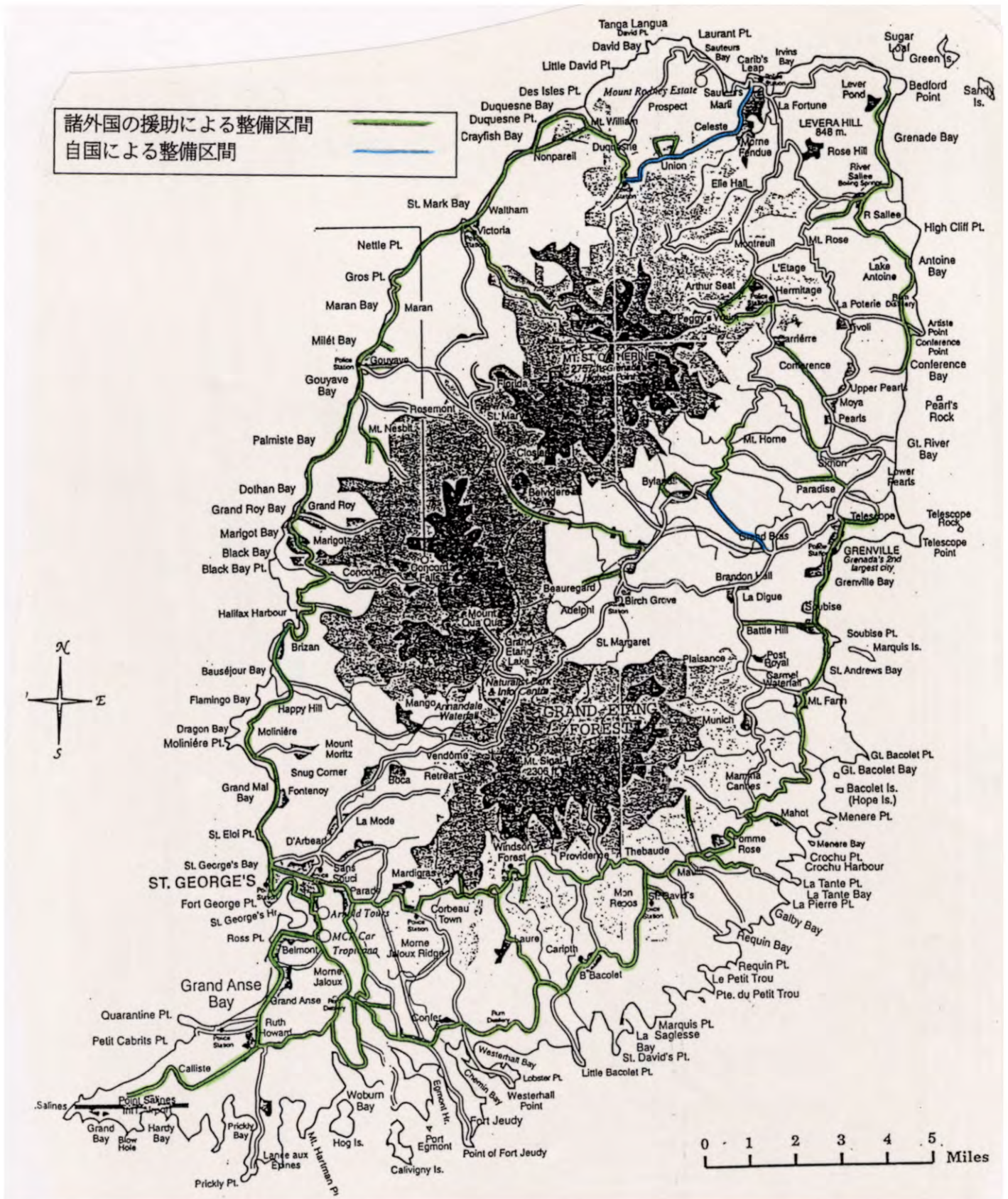


1992年1月16日撮影

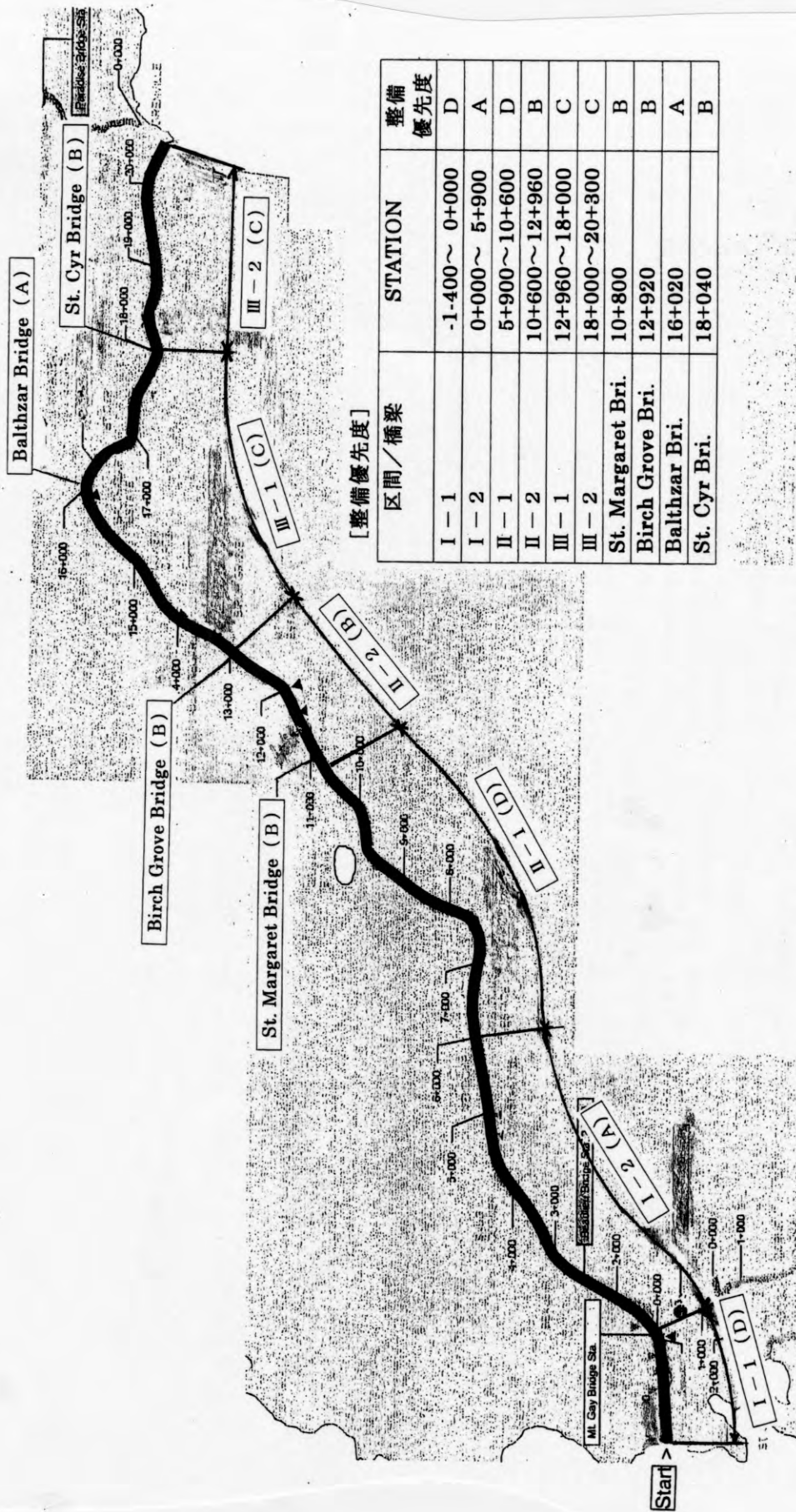
付図 5 グレンヴィル周辺の海岸線の比較；1982年（上）と1992年（下）



付図 6 グレナダ島の道路網図



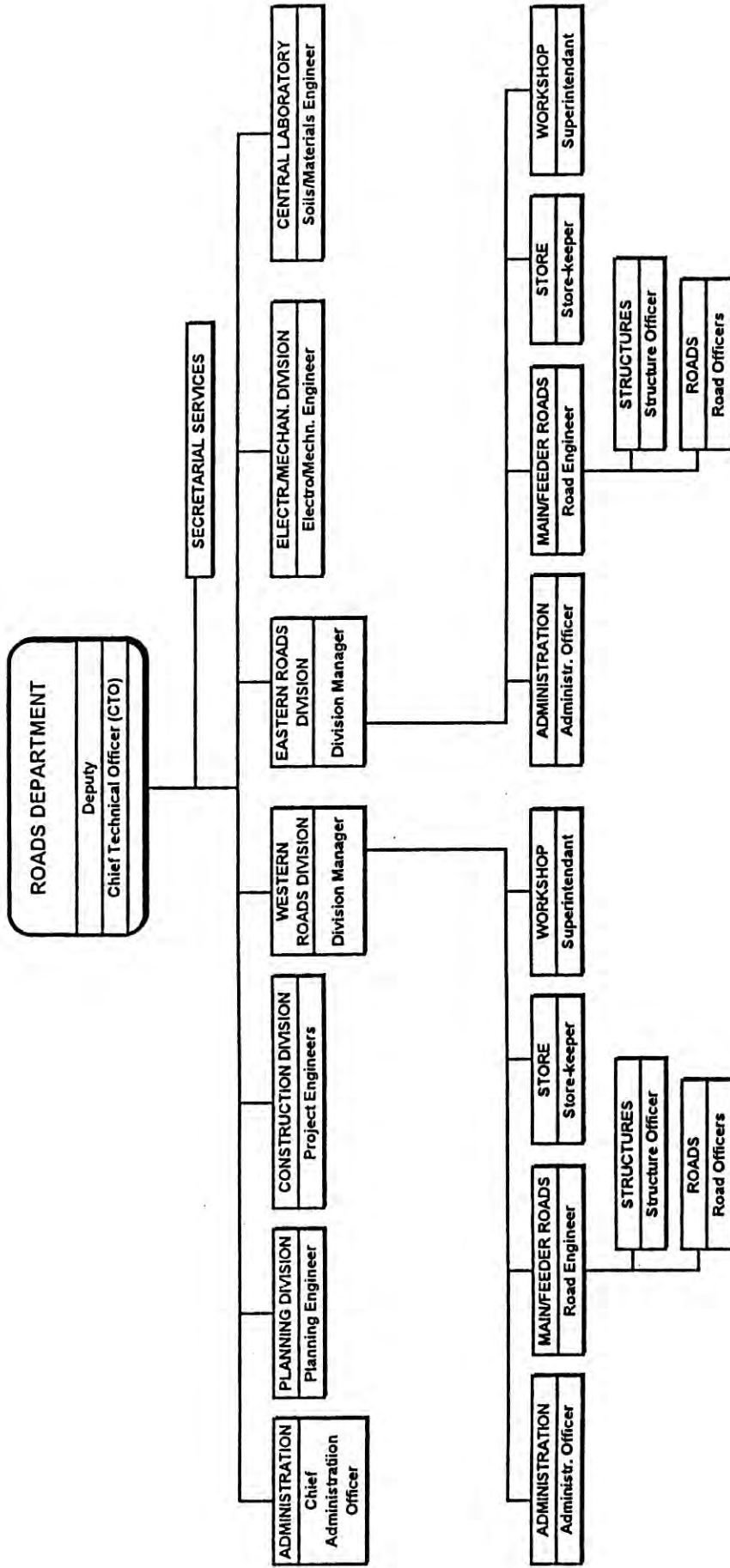
付図 7 他援助国・国際機関による道路開発状況



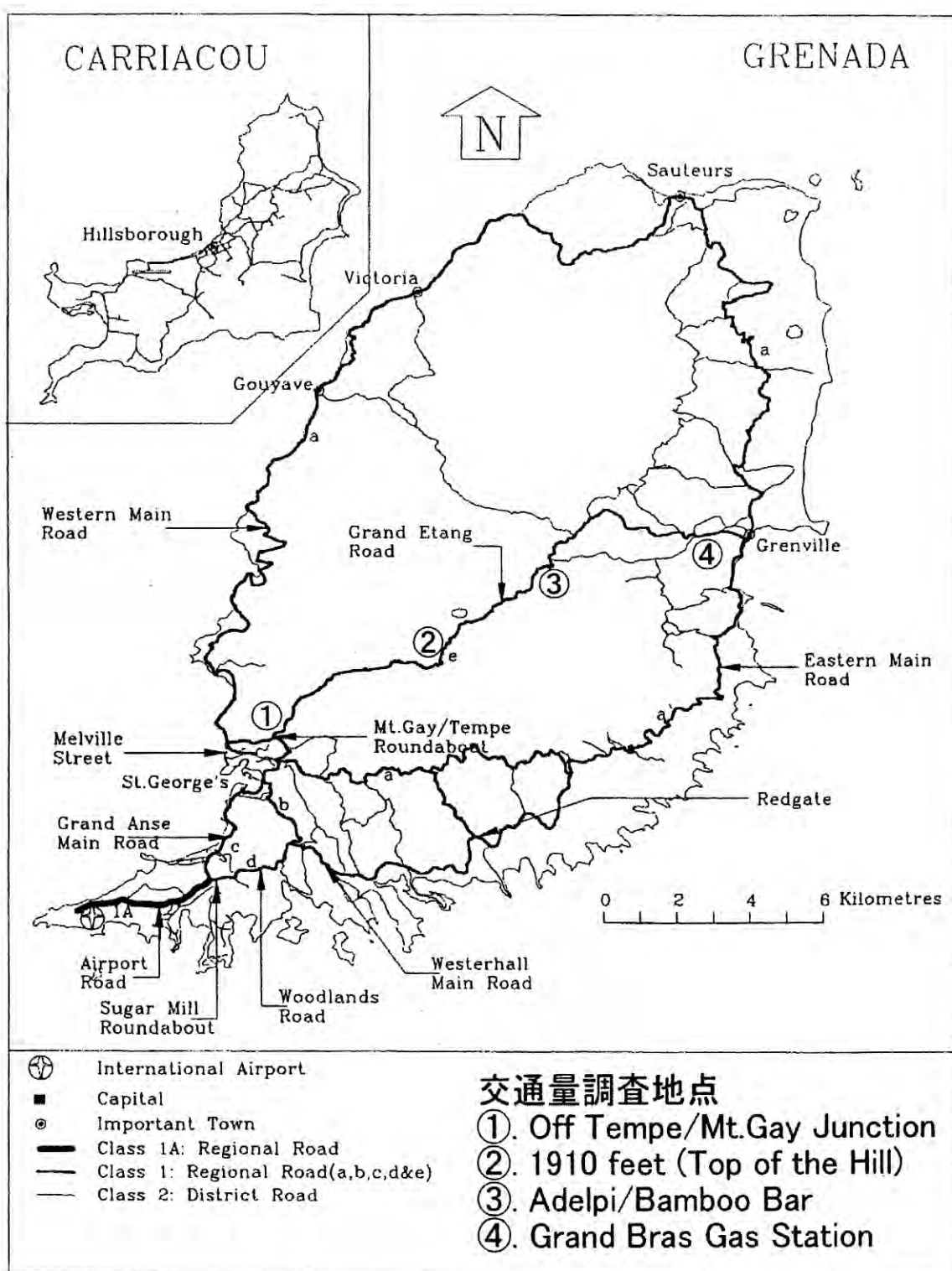
[整備優先度]

区間/橋梁	STATION	整備優先度
I-1	-1+400 ~ 0+000	D
I-2	0+000 ~ 5+900	A
II-1	5+900 ~ 10+600	D
II-2	10+600 ~ 12+960	B
III-1	12+960 ~ 18+000	C
III-2	18+000 ~ 20+300	C
St. Margaret Bri.	10+800	B
Birch Grove Bri.	12+920	B
Balthazar Bri.	16+020	A
St. Cyr Bri.	18+040	B

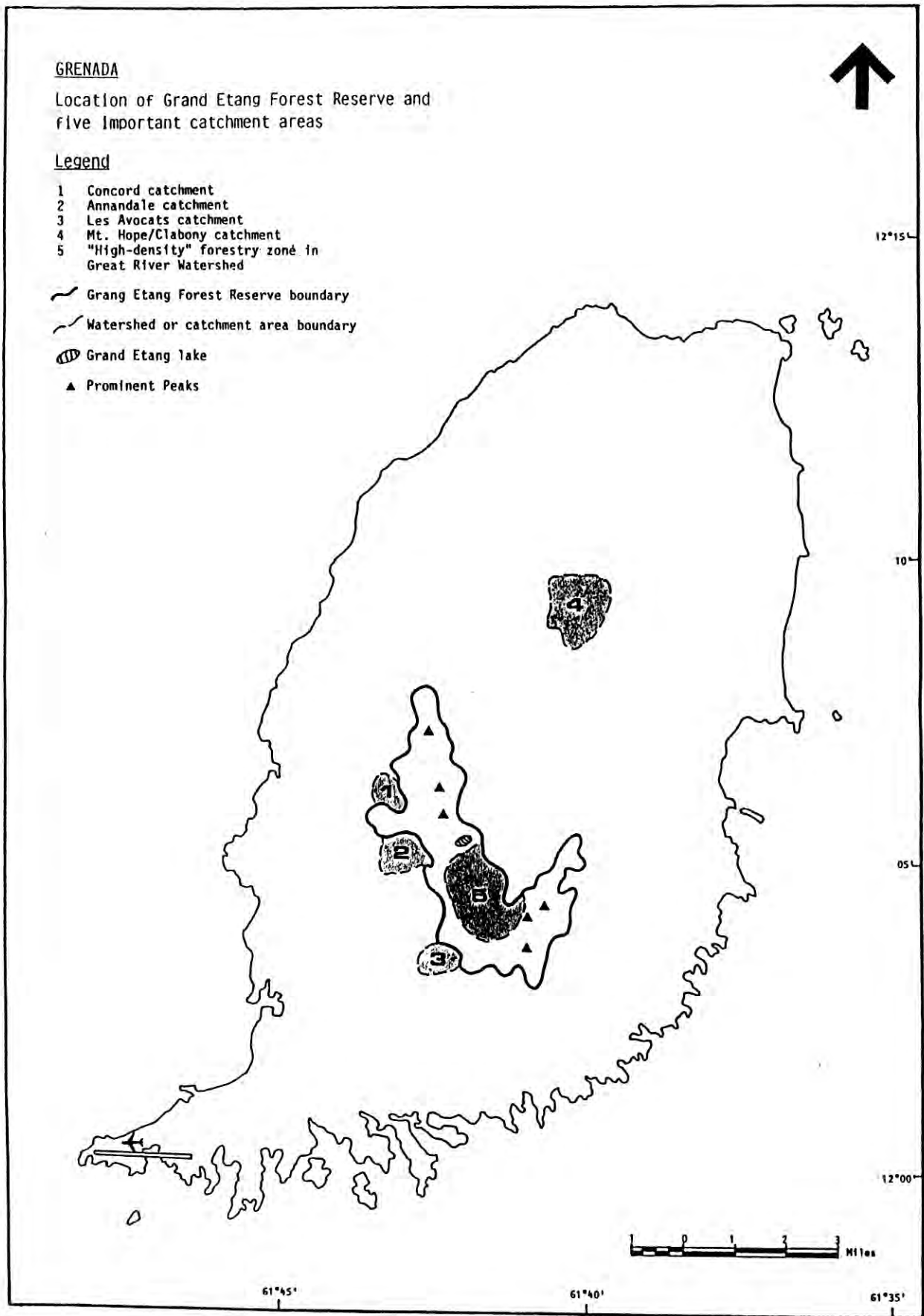
付図 8 グランドエタン道路整備優先順位



付図 9 グレナダ国公共事業省組織図



付図 10 交通量調査地点図



Location of Grand Etang Forest Reserve and selected catchment areas, Grenada (source: Weaver, 1989; GOG/OAS, 1988d).

付図 11 グランドエタン森林保護区

付表 1 観測地点別降雨データ  
(mm)

SELECTED STATIONS	1990	1991	1992	1993	1994	1995	1996
Annandale W.T.P.	3,383.9	3,599.1	3,110.2	3,225.9	2,960.9	2,559.1	3,197.9
Ashendon Cocoa Station	2,407.1	2,544.1	2,306.5	2,183.4	1,633.5	1,570.0	2,070.1
Beausejour	2,136.1	2,220.7	1,873.6	1,943.3	1,507.8	1,387.2	1,981.2
Belvidere Estate	3,295.6	3,371.5	3,933.8	3,703.6	4,001.0	3,267.0	4,394.2
Boulogne Cocoa Station	1,983.1	2,353.8	2,068.9	1,747.9	1,270.2	1,364.8	1,541.8
Capitol Estate	2,673.5	3,081.6	2,528.0	2,515.5	2,271.7	2,111.2	2,875.3
Cardi	1,920.9	1,703.1	1,715.6	1,927.1	1,171.9	1,731.8	1,902.5
Clozier	3,744.7	3,254.5	3,586.7	3,670.0	3,197.3	2,847.7	3,871.0
Concord Waterfalls	3,626.5	3,662.6	3,646.4	3,398.8	2,613.4	1,387.2	3,517.9
Dougladston Estate, St. Johns	2,328.8	2,544.1	2,616.3	2,449.6	2,167.2	1,760.4	2,557.8
Dougladston W.T.P.	2,363.8	3,036.8	2,341.4	2,581.5	2,259.3	2,180.9	2,628.9
Grand Etang Forest Nursery	3,457.3	3,257.8	3,643.9	3,346.6	3,321.7	2,579.0	3,418.8
Grand Etang National Park	3,217.2	3,438.6	4,079.3	3,775.8	3,334.1	2,751.9	4,125.0
Hope Estate	1,933.3	1,797.7	1,446.9	1,147.0	1,153.3	1,298.8	2,077.7
Knoll Black Bay	2,287.9	2,328.9	2,123.6	1,667.1	1,766.6	1,459.3	1,889.8
Kublal (Cable & Wireless)	2,970.9	3,340.4	3,330.4	2,462.0	2,224.4	2,739.5	3,075.9
Levera	1,089.8	1,011.4	2,236.9	1,532.7	1,208.0	1,393.4	1,503.7
Madigras, St. George's	2,639.3	2,750.7	1,687.0	1,883.5	1,672.0	2,012.9	2,545.1
Mama Cannes	2,493.1	2,236.9	2,310.3	1,918.4	1,637.2	1,873.6	2,197.1
Maran Cocoa Station, St. Johns	2,435.8	2,743.2	2,635.0	2,277.9	2,407.3	1,813.9	2,555.2
Mirabeau Agriculture Station	2,162.1	2,256.8	2,234.4	2,306.5	1,886.0	1,846.6	2,319.0
Mt. Alexander	1,912.2	1,879.8	1,920.9	1,425.7	793.7	777.6	937.5
Mt. Horne Cocoa Station	2,012.8	2,063.9	1,915.9	1,614.8	1,459.3	1,659.6	2,100.6
Mt. Reuil Estate	2,351.3	2,221.9	2,161.0	1,756.6	2,552.9	2,066.4	2,026.9
Peggy's Whim	2,269.2	3,204.8	3,697.4	2,474.5	1,206.8	1,994.3	2,227.6
Point Salines Int'l Airport	1,235.4	1,169.4	1,232.9	1,077.4	862.1	992.8	1,478.3
Pomme Rose	2,524.2	2,306.5	2,088.8	2,509.3	1,659.6	2,148.5	2,524.8
Queens Park	1,968.1	1,633.5	1,668.3	1,260.3	1,643.4	1,295.1	1,427.5
River Antoine Estate	951.7	1,204.3	581.0	439.2	429.2	970.4	848.4
St. George's (Botanical Gdns.)	1,325.3	2,025.4	2,202.0	2,009.2	1,516.5	1,419.5	1,424.9
Mirabeau W.T.P.	-	-	2,659.4	2,225.0	1,958.3	2,153.9	2,738.1
Vendome W.T.P.	-	-	2,971.8	2,755.9	2,771.1	2,313.9	3,088.6
Mt. Hartman	-	-	-	1,224.3	907.3	962.2	528.3

Note: " - " denotes not available

SOURCE: Land Use Division, Ministry of Agriculture,



付表 2 グレナダ国周辺を通過したハリケーン一覧表

Year	Cyclone No.	Nickname	Term of life	Spc
1996年	6906	FRANCELIA	69/08/29/00~69/09/04/12	HR
	6908	HOLLY	69/09/14/12~69/09/21/00	HR
1970年	7005	DOROTHY	70/08/17/12~70/08/23/12	TS
1971年	7104	CHLOE	71/08/18/12~71/08/25/12	TS
	7105	DORIA	71/08/20/12~71/08/29/06	TS
	7106	EDITH	71/09/05/18~71/09/18/06	HR
	7110	IRENE	71/09/11/18~71/09/20/18	HR
1973年	7304	CHRISTINE	73/08/25/12~73/09/04/18	TS
1974年	7404	ALMA	74/08/12/12~74/08/15/12	TS
	7406	CHARMEN	74/08/29/06~74/09/10/06	HR
	7409	FIFI	74/09/14/12~74/09/22/12	HR
	7410	GERTRUDE	74/09/27/12~74/10/04/00	HR
1978年	7804	CORA	78/08/07/12~78/08/12/00	HR
	7808	GRETA	78/09/13/18~78/09/20/00	HR
1979年	7901	ANA	79/06/19/12~79/06/24/00	TS
	7903	CLAUDETTE	79/07/15/12~79/07/29/12	TS
	7904	DAVID	79/08/25/15~79/09/08/00	HR
	7906	FREDERIC	79/08/29/06~79/09/15/00	HR
1980年	8001	ALLEN	80/07/31/12~80/08/11/18	HR
1981年	8104	DENNIS	81/08/07/06~81/08/22/00	HR
	8107	GERT	81/09/07/00~81/09/15/18	HR
1984年	8412	KLAUS	84/11/05/18~84/11/13/18	HR
1986年	8604	DANIELLE	86/09/07/06~86/09/10/12	TS
1987年	8706	EMILY	87/09/20/00~87/09/26/18	HR
1988年	8803	CHRIS	88/08/21/12~88/08/30/18	TS
	8808	GILBERT	88/09/08/18~88/09/20/00	HR
	8810	ISAAC	88/09/28/18~88/10/01/12	TS
	8811	JOAN	88/10/10/18~88/10/23/06	HR
1989年	8908	HUGO	89/09/10/12~89/09/25/12	HR
1990年	9001	ARTHUR	90/07/22/06~90/07/27/12	TS
	9006	FRAN	90/08/11/12~90/08/14/12	TS
	9007	GUSTAV	90/08/24/06~90/09/03/06	HR
1993年	9302	BRET	93/08/04/12~93/08/11/12	TS
	9303	CINDY	93/08/14/12~93/08/17/00	TS
1994年	9404	DEBBY	94/09/09/12~94/09/11/00	TS
1995年	9509	IRIS	95/08/22/12~95/09/07/12	HR
	9513	MARILYN	95/09/12/18~95/10/01/18	HR
1996年	9602	BERTHA	96/07/05/00~96/07/17/06	HR
	9603	CESAR	96/07/24/18~96/07/28/18	HR
	9608	HORTENSE	96/09/03/12~96/09/16/06	HR
1997年	9706	ELICA	97/09/03/06~97/09/19/18	HR
1999年	9912	LENNY	99/11/13/18~99/11/23/12	HR

付表 3 グレナダ国自動車登録台数

MOTOR VEHICLES REGISTERED  
(as at)

CATEGORY	Dec 1991	Dec 1992	Dec 1993	Dec 1994	Dec 1995	Dec 1996
Cars	4,464	4,772	5,095	5,465	5,841	6,307
Hired Cars	275	287	318	369	414	414
Buses	557	652	732	814	909	964
Trucks	576	619	664	732	800	840
Jeeps	341	442	569	755	938	1,087
Vans	170	218	264	359	435	458
Pick-ups	1,220	1,316	1,399	1,505	1,599	1,620
Land Rovers	204	212	226	239	252	251
Ambulances	4	4	4	9	13	12
Motor Cycles	378	417	454	508	559	561
Heavy Equipment	46	54	61	74	77	88
Other	27	30	31	32	35	37
Total	8,262	9,023	9,817	10,861	11,872	12,639

SOURCE: Inland Revenue Dept., Ministry of Finance

付表 4 自動車運転免許保有者数と交通違反・事故件数

NO. OF LICENSED DRIVERS  
TRAFFIC OFFENCES AND ACCIDENTS

Year	Licensed Drivers	Traffic Offences	Motor Accidents	Persons Killed
1974	8,555	435	319	7
1975	8,535	497	259	4
1976	8,258	483	359	9
1977	8,598	779	321	7
1978	9,749	1,062	495	6
1979	10,105	912	567	7
1980	6,750	316	582	6
1981	5,179	179	610	7
1982	7,358	203	632	6
1983	4,178	345	593	7
1984	4,166	1,302	507	8
1985	6,676	1,782	659	13
1986	6,192	2,344	451	1
1987	9,274	3,181	881	9
1988	NA	3,792	2,071	8
1989	NA	3,902	1,783	9
1990	NA	4,001	1,743	9
1991	NA	3,888	1,689	22
1992				
1993				
1994				
1995				
1996				

SOURCE: Police – Traffic Division

付表 5 公共事業省道路局保有機械

Maintenance Equipment of Road Department

Description	Number of Units	Year of Manufacturer
Bedford Tipper	2	1984
Leyland Tipper	5	1995
Dodge Tar Sprayer	1	1987
Bedford Tar Sprayer	1	1981
Ingram Roller PTR	1	1987
JCB 3XC Backhoe	1	1987
Skid Steer (Case)	2	1994
Bedford Dumper	3	1995
Thwaites Dumper	2	1987
Bedford Water Truck	1	1981
Aveling Bedford Grader	1	1981
Barber Green E Paver	1	1987
D175 Compressor	1	
Wacker Plates	3	
Errut Saw	1	
D6 Caterpillar Bulldozer	1	
Belarus Tractor and Brush	1	
AB Roller	1	
Bedford Roller	2	
Vibratory Rammers	3	1985
Generator	2	
Chain Saw	1	
Pavement Breaker Hydr.	1	
JCB Drill	1	
JCB Water Pump	1	
Honda Water Pump	2	
Battery Charger Velox 400	1	
Arc Welder	1	
Hydraulic Jack	1	
Land Rover (Defender 90)	3	1994
Daihatsu Delta Truck	1	1995
Aveling Barford Roller	1	
Suzuki Samurai JX 10	1	1981
Bobcat Skid Steer Machine	1	
Concrete Vibrator	1	1995
AB Vibratory Roller VXC	1	1986

付表 6 交通量調査結果

Station	Temp/Mt. Gay Junc.					Date					Total
	Pass. Car	Bus	Light Truck	Heavy Truck	Sub Total	Pass. Car	Bus	Light Truck	Heavy Truck	Sub Total	
7:00 ~ 7:15	28	32	5	1	66	7	17	0	0	24	90
7:15 ~ 7:30	32	33	5	3	73	9	13	0	0	22	95
7:30 ~ 7:45	64	38	4	5	111	11	24	3	0	38	149
7:45 ~ 8:00	80	34	16	10	140	21	21	4	0	46	186
Sub Total	204	137	30	19	390	48	75	7	0	130	520
8:00 ~ 8:15	46	19	10	8	83	12	22	2	1	37	120
8:15 ~ 8:30	29	17	10	8	64	16	10	2	0	28	92
8:30 ~ 8:45	32	17	6	9	64	14	14	3	5	36	100
8:45 ~ 9:00	27	13	3	6	49	16	16	5	3	40	89
Sub Total	131	66	29	31	260	58	62	12	9	141	401
Total	338	203	59	50	650	106	137	19	9	271	921

Station	1910ft(The Top of Grand Etang)					Date					Total
	Pass. Car	Bus	Light Truck	Heavy Truck	Sub Total	Pass. Car	Bus	Light Truck	Heavy Truck	Sub Total	
7:00 ~ 7:15	15	25	4	2	46	3	4	0	2	9	55
7:15 ~ 7:30	28	12	2	9	51	5	5	2	1	13	64
7:30 ~ 7:45	26	13	3	3	45	2	4	0	1	7	52
7:45 ~ 8:00	16	12	2	6	36	3	8	1	0	12	48
Sub Total	85	62	11	20	178	13	21	3	4	41	219
8:00 ~ 8:15	11	4	1	5	21	2	4	0	0	6	27
8:15 ~ 8:30	7	6	2	4	19	2	5	2	1	10	29
8:30 ~ 8:45	10	3	4	1	18	3	2	1	1	7	25
8:45 ~ 9:00	7	2	2	1	12	4	2	2	1	9	21
Sub Total	35	15	9	11	70	11	13	5	3	32	102
Total	120	77	20	31	248	24	31	8	7	73	321

Station	Adelpi Gap/Bamboo Bar					Date					Total
	Pass. Car	Bus	Light Truck	Heavy Truck	Sub Total	Pass. Car	Bus	Light Truck	Heavy Truck	Sub Total	
7:00 ~ 7:15	25	19	4	4	52	7	5	0	0	12	64
7:15 ~ 7:30	28	17	3	6	54	2	5	0	4	11	65
7:30 ~ 7:45	18	10	4	6	38	1	4	0	1	6	44
7:45 ~ 8:00	19	7	2	4	32	4	10	1	0	15	47
Sub Total	90	53	13	20	176	14	24	1	5	44	220
8:00 ~ 8:15	8	8	2	3	21	3	7	1	0	11	32
8:15 ~ 8:30	13	5	5	2	25	3	6	4	2	15	40
8:30 ~ 8:45	11	3	1	1	16	2	2	0	1	5	21
8:45 ~ 9:00	5	4	3	3	15	2	3	2	0	7	22
Sub Total	37	20	11	9	77	10	18	7	3	38	115
Total	127	73	24	29	253	24	42	8	8	82	335

Station	Grand Bras Gas Station					Date					Total
	Pass. Car	Bus	Light Truck	Heavy Truck	Sub Total	Pass. Car	Bus	Light Truck	Heavy Truck	Sub Total	
7:00 ~ 7:15	27	19	2	8	56	14	5	6	2	27	83
7:15 ~ 7:30	19	12	6	2	39	6	12	5	2	25	64
7:30 ~ 7:45	15	11	7	6	39	8	12	8	8	36	75
7:45 ~ 8:00	18	16	4	3	41	14	17	9	4	44	85
Sub Total	79	58	19	19	175	42	46	28	16	132	307
8:00 ~ 8:15	23	8	7	1	39	15	18	14	5	52	91
8:15 ~ 8:30	18	10	10	2	40	15	15	7	4	41	81
8:30 ~ 8:45	20	9	10	7	46	21	6	7	3	37	83
8:45 ~ 9:00	12	8	7	1	28	15	4	9	4	32	60
Sub Total	73	35	34	11	153	66	43	37	16	162	315
Total	152	93	53	30	328	108	89	65	32	291	622