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**Data from Various Commercial  
Fisheries for Arctic Charr, *Salvelinus  
alpinus* (L.), in the Nunavut  
Settlement Area, Northwest Territories,  
1989, 1991 and 1992**

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**Canadian Data Report of  
Fisheries and Aquatic Sciences  
910**



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## ERRATUM

Carder, G.W. 1993. Data from various commercial fisheries for Arctic charr, Salvelinus alpinus (L.), in the Nunavut Settlement Area, Northwest Territories, 1989, 1991 and 1992. Can. Data Rep. Fish. Aquat. Sci. 910: vi + 38 p.

### LIST OF ERRORS

1. Page 13. Wilson Bay winter quota should be 2 000 not 3 000
2. Page 34. Tables 40 and 41 should read; ".....by the commercial fishery at Wilson River, 1992."

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Fisheries and Aquatic Sciences 910**

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FOR ARCTIC CHARR, *Salvelinus alpinus* (L.), IN THE  
NUNAVUT SETTLEMENT AREA, NORTHWEST TERRITORIES,  
1989, 1991 AND 1992**

**by**

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Department of Fisheries and Oceans  
Winnipeg, Manitoba R3T 2N6**

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**ABSTRACT**

Carder, G.W. 1993. Data from various commercial fisheries for Arctic charr, *Salvelinus alpinus* (L.), in the Nunavut Settlement Area, Northwest Territories, 1989, 1991 and 1992. Can. Data Rep. Fish. Aquat. Sci. 910: vi + 38 p.

Biological samples from commercially caught anadromous Arctic charr were collected during 1989, 1991 and 1992. Samples were obtained from Arrowsmith River, Baker Foreland, Becher River, Coppermine River, Ekalluk River, Ellice River, Ferguson River, Gifford River, Halovik River, Jayco River, Keith Bay, Kellett River, Kingnait Fiord, Kulgayuk River, Lauchlan River, Naqsaarluk Lake, Paliryuak River, Perry River, Port Parry, Rankin Inlet and Wilson River.

**Key words:** catch composition; catch statistics; commercial fishing; exploitation; fishery management; monitoring.

**RÉSUMÉ**

Carder, G.W. 1993. Data from various commercial fisheries for Arctic charr, *Salvelinus alpinus* (L.), in the Nunavut Settlement Area, Northwest Territories, 1989, 1991 and 1992. Can. Data Rep. Fish. Aquat. Sci. 910: vi + 38 p.

Des échantillons d'ombles chevaliers anadromes ont été prélevés en 1989, 1991, et 1992 dans les prises commerciales faites dans les endroits suivants: rivière Arrowsmith, promontoire Baker, rivière Coppermine, rivière Ekalluk, rivière Ellice, rivière Ferguson, rivière Gifford, rivière Halovik, rivière Jayco, baie Keith, rivière Kellett, fiord Kingnait, rivière Kulgayuk, rivière Lauchlan, lac Naqsaarluk, rivière Paliryuak, rivière Perry, port Parry, bras Rankin et rivière Wilson.

**Mots-clés:** composition des prises; statistiques sur les prises; pêche commerciale; exploitation; gestion des pêcheries; surveillance.

## INTRODUCTION

The Department of Fisheries and Oceans (DFO) has monitored the commercial fishery at Cambridge Bay, Northwest Territories (NWT) since 1971 (Carder 1981, 1983, 1988, 1991; Carder and Low 1985; Carder and Stewart 1989; Kristofferson and Carder 1980) and Rankin Inlet, NWT since 1972 (Carder 1983, 1988, 1991; Carder and Peet 1983; Carder and Low 1985; Carder and Stewart 1989; MacDonell 1989). In addition, DFO has monitored the commercial fishery at Coppermine River during 1986 and 1988 (Carder 1988; Carder and Stewart 1989) at Igloodik during 1990 (Carder 1991) and at Pelly Bay during the years 1985 and 1986 (Carder 1988).

Information collected from biological samples taken from the above commercial fisheries were used to assess the status of anadromous Arctic charr stocks found there. Biological data obtained from the above commercial fisheries during 1991 and 1992 are presented in this report. In addition, samples were obtained from Port Parry in 1989. Biological data were also collected from an unnamed lake (71-12N, 72-40W) in the Clyde River area during 1991. Locally this river is called Naqsaarluk Lake.

## MATERIALS AND METHODS

### THE FISHERIES

The early history of the Cambridge Bay fishery is described by Barlishen and Webber (1973) and the Rankin Inlet commercial fishery by Carder and Peet (1983). Recent data and a description of the Cambridge Bay area can be found in Kristofferson and Carder (1980); Carder (1981, 1983, 1988, 1991); Carder and Low (1985); Carder and Stewart (1989). Similar information for the Rankin Inlet area can be found in Carder (1983, 1988, 1991); Carder and Peet (1983); Carder and Low (1985); Carder and Stewart (1989); MacDonell (1989) and Yonge (1987a, b).

Commercial data from the Coppermine River, Clyde River, Pangnirtung, Pelly Bay and Port Parry fisheries over the years have been limited. Historical information on quotas and harvest figures from some of these areas can be found in Yaremchuk et al. (1989). Various test fisheries have been conducted in the area over the years. This information has been used to determine the feasibility of commercially fishing specific waterbodies and has also been used to determine various quota allocations. Data collected from these test fisheries are found in Kroeker (1985); McGowan (1985, 1989) and Kristofferson and McGowan (1981). Additional information from the Coppermine area can be found in Gillman and Kristofferson (1984) and from

the Pelly Bay area in Kristofferson et al. (1982).

Arctic charr were caught by gill nets with mesh sizes varying from 139 mm to 159 mm stretched measure. Fishing locations are shown in Figs. 1-8.

### SAMPLING PROGRAM

Sampling methods for the Cambridge Bay and Keewatin fisheries are described in Kristofferson and Carder (1980) and Carder and Peet (1983). Fish from the Cambridge Bay fisheries were sampled during 1991 and 1992 during the following periods:

<u>Fishery</u>	<u>Year</u>	<u>Month</u>
Ekalluk River	1991	August (DFO commercial test sample)
	1992	August (DFO commercial test sample)
Paliryuak River	1991	July
	1992	July
Halovik River	1991	July
	1992	July
Lauchlan River	1991	July
	1992	July
Jayco River	1991	Late August and early September
Kulgayuk River	1991	August
Ellice River	1991	August
Perry River	1991	August

During 1991 the Ekalluk River was closed as a conservation measure. Fishing did not occur at Ekalluk, Jayco, Kulgayuk, Ellice and Perry rivers during 1992 because of low prices and high transportation costs. During 1991 and 1992, the Keewatin fisheries were sampled during August and early September. Various other fisheries were sampled during the following periods:

<u>Fishery</u>	<u>Year</u>	<u>Month</u>
Clyde	1991	April, May and June
Coppermine	1991	September
Igloodik	1992/93	December and January
Pangnirtung	1991	March

<u>Fishery</u>	<u>Year</u>	<u>Month</u>
Pelly Bay	1992	October
Port Parry	1989	October

Fish were randomly sampled for fork length ( $\pm 1$  mm) and dressed and round weight ( $\pm 50$  g). Sagittal otoliths were taken and stored dry in coin envelopes. In the laboratory they were ground on a fine carborundum stone and placed in benzyl benzoate for clearing before being read under a binocular dissecting microscope (30X). A reflecting light source against a black background was used to highlight the annual growth zones which were counted to determine the age. Method of ageing was according to Nordeng (1961).

#### DATA ANALYSIS

Data were analyzed using a Micro Vax 11 computer. The Statistical Analysis System (1985) was used to generate length, weight, age, sex and stage of maturity summaries and to perform basic calculation and statistical analysis.

Relative condition factor (K) was calculated using the formula:

$$K = \frac{W \times 10^5}{L^3}$$

where W = round weight in grams  
L = fork length in centimetres

#### RESULTS

Quotas and harvest data are shown in Table 1. A summary of length, weight and age data from all commercial fisheries sampled during 1989, 1991 and 1992 are presented in Table 2. Production figures for the year 1991 were taken from the Annual Summary of Fish Harvest Data (DFO 1988). Biological data are presented in Tables 3 to 49. All tables of length data designate the lower boundary of the length interval (e.g. 450 indicates length interval (450 - 499 mm)).

#### ACKNOWLEDGMENTS

The author wishes to thank the commercial fishermen of the Cambridge Bay, Coppermine, Clyde River, Gjoa Haven, Igloodik, Pangnirtung, Pelly Bay and Rankin Inlet areas for their help and cooperation. Thanks also to the staff of Ikaluktutiak Cooperative

Ltd, Cambridge Bay and Issatik Food Plant, Rankin Inlet for their help and assistance.

Field assistance at Cambridge Bay was provided by D. DeChief, DFO and F. Taptuna, DFO; at Clyde by S. Sather, Renewable Resources Officer, Government of the NWT; at Coppermine by C. Adjun, Renewable Resource Officer, Government of the NWT, and J. Hunter, Renewable Resource Officer, Government of the NWT; at Igloodik by B. Parker, Renewable Resource Officer, Government of the NWT; at Pangnirtung by P. Kilabuk, DFO, and J. Evic, Renewable Resources Officer, Government of the NWT; at Pelly Bay by G. Kakkianun, Renewable Resource Officer, Government of the NWT, and R. Morrison, Renewable Resource Officer, Government of the NWT; at Rankin Inlet by M. Keast, DFO and R. Luke, DFO; at Port Parry by L. Coady, Renewable Resource Officer, Government of the NWT and by the following commercial fishermen, namely J. Anaija, G. Konana and S. Takkiruaq of Gjoa Haven, NWT.

Thanks also to G. Low, South/Central Area Management Biologist, DFO and D. Pike, Baffin/Keewatin Area Management Biologist, DFO, for their support and help.

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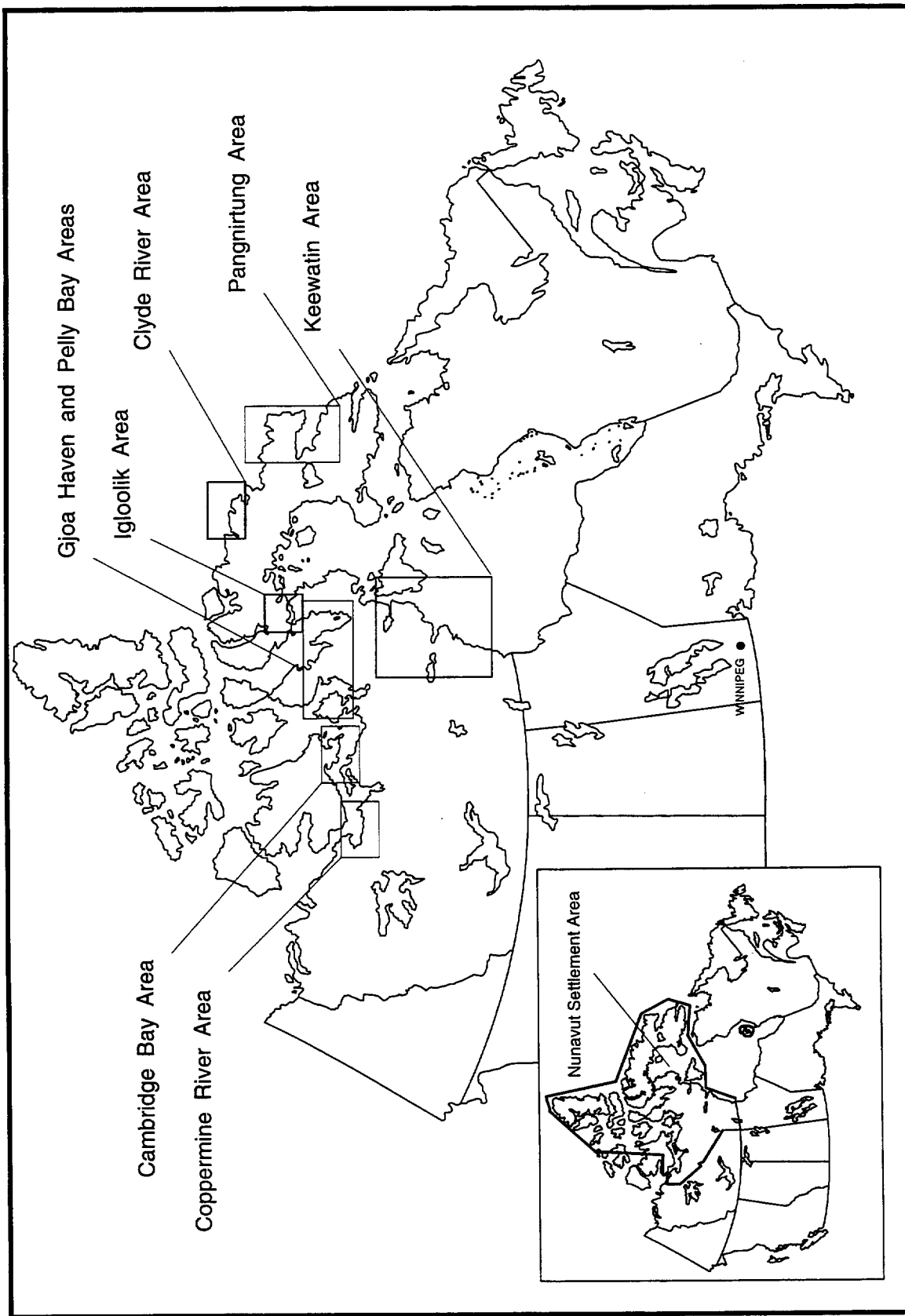


Fig. 1. Map of Canada showing commercial fishing areas for anadromous Arctic charr referred to in this report.

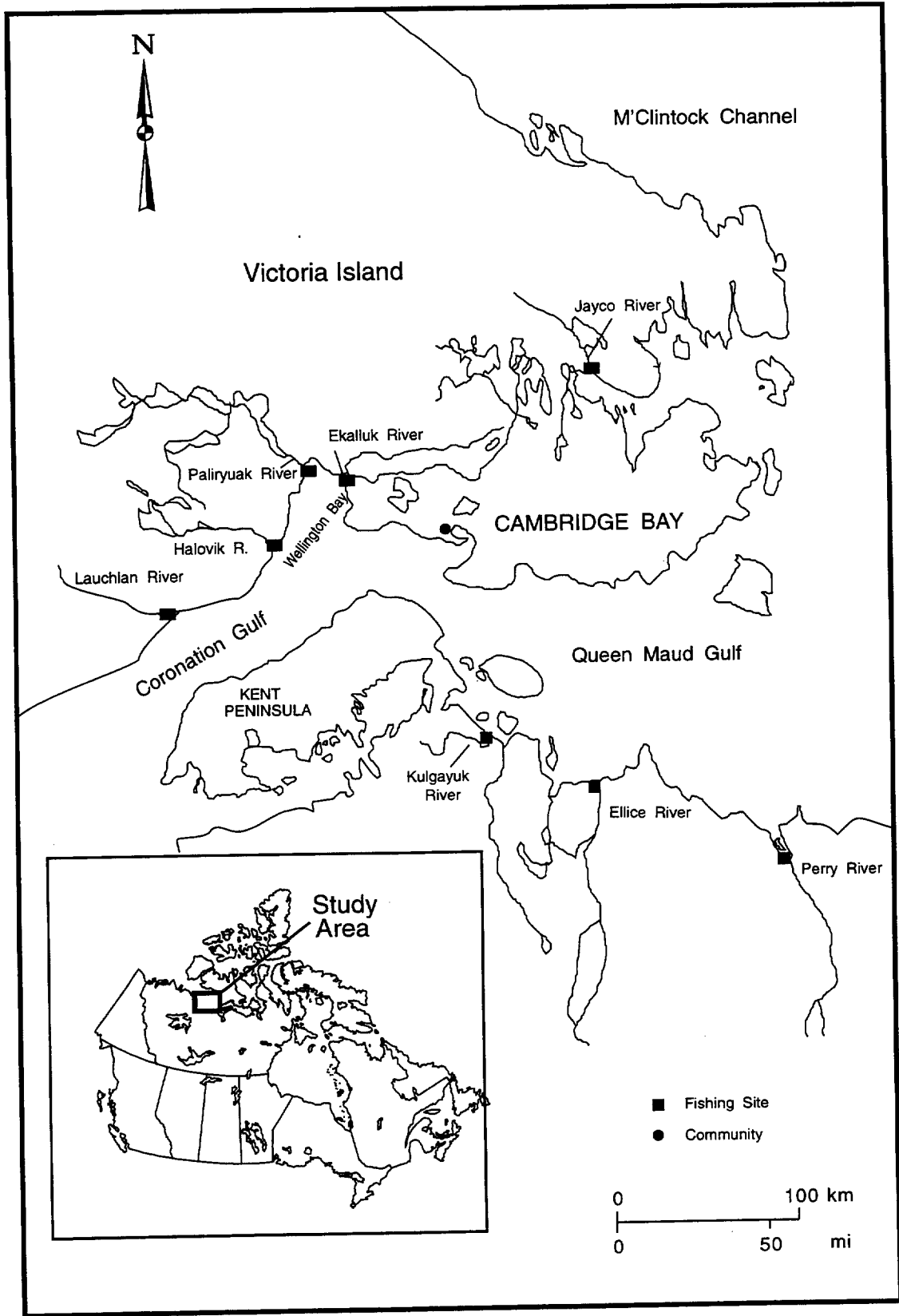


Fig. 2. Map of the Cambridge Bay area showing commercial fishing sites.

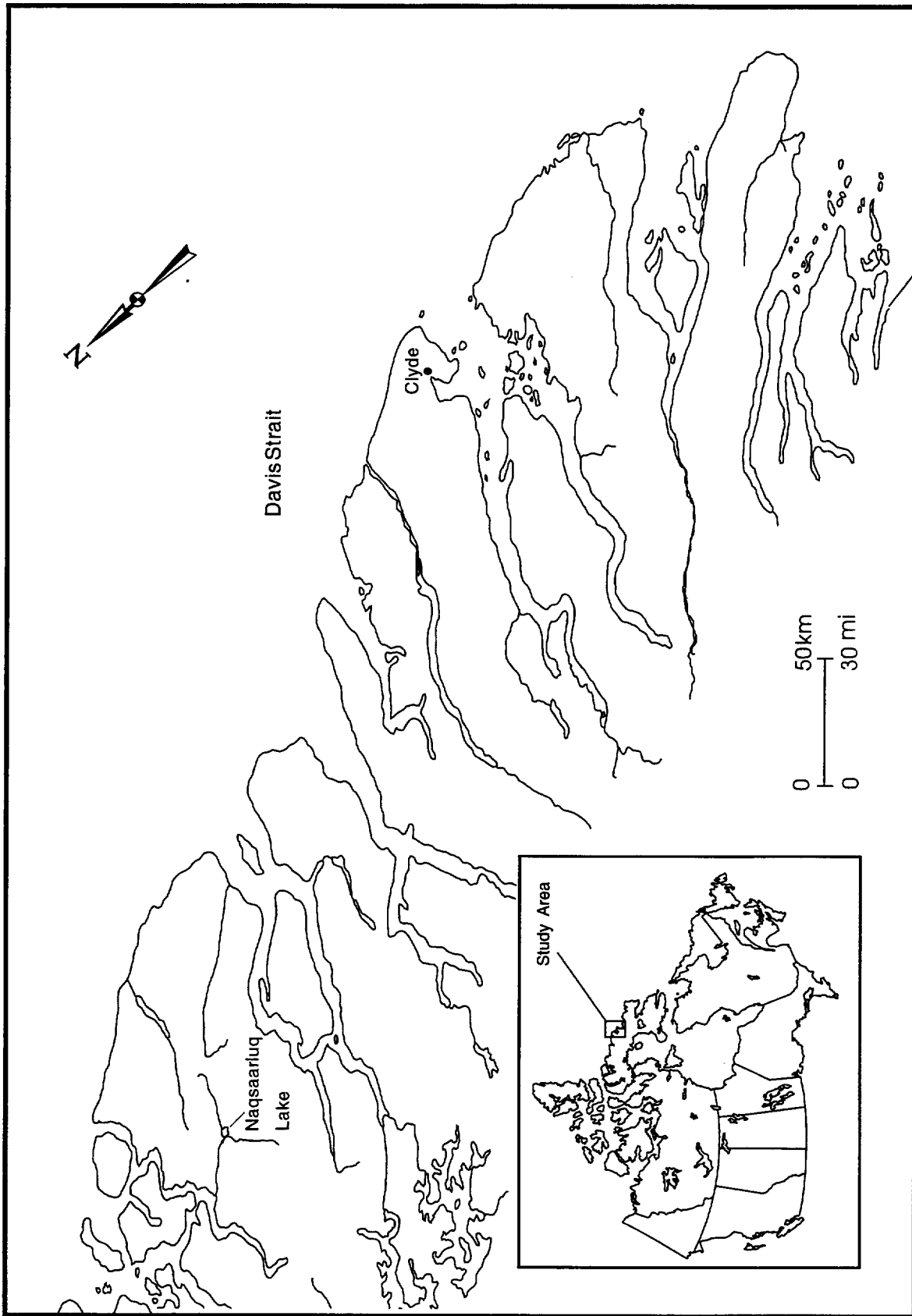


Fig. 3. Map of the Clyde River area showing Naqsaarlug Lake.

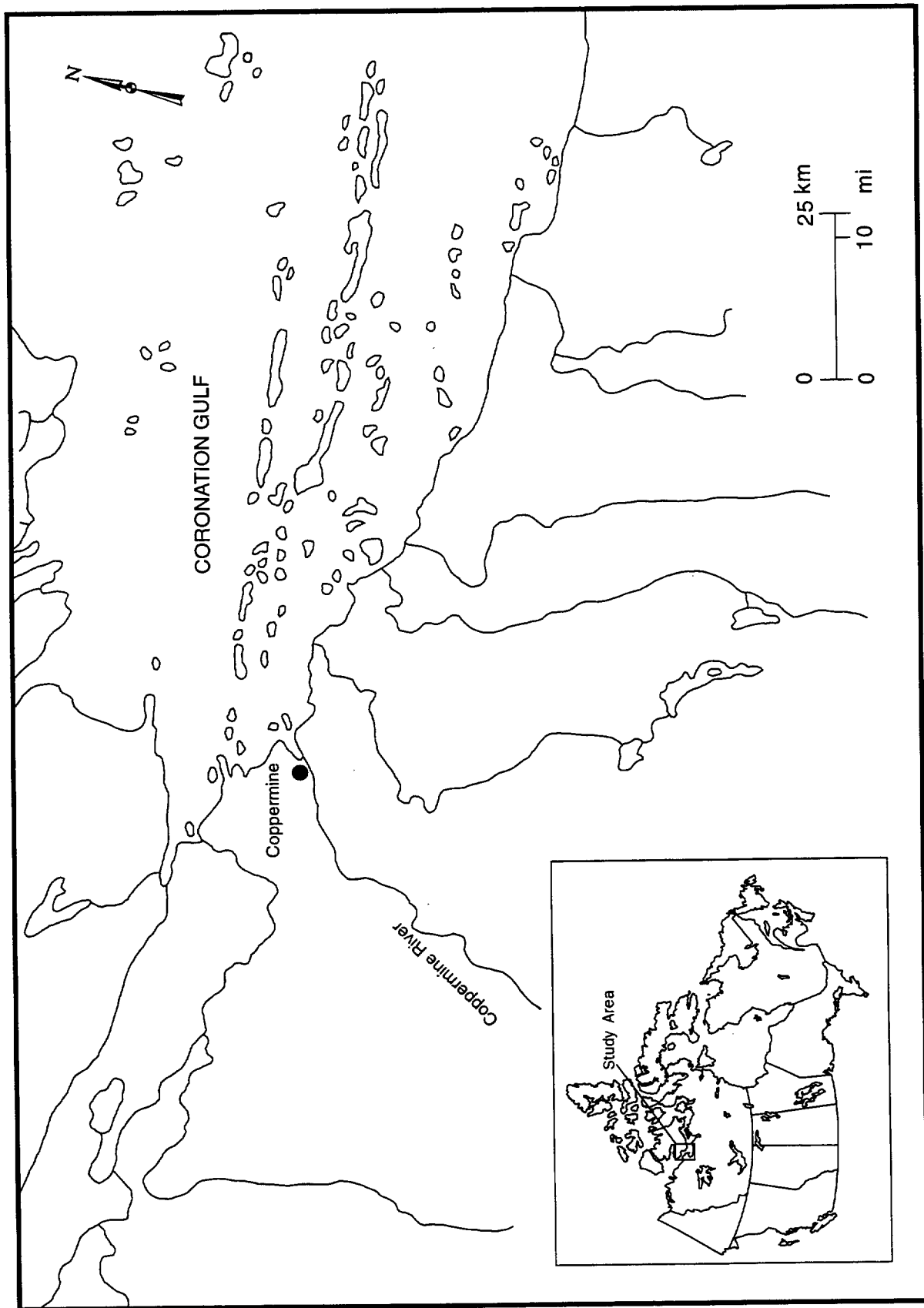


Fig. 4. Map of the Coppermine area showing Coppermine River.

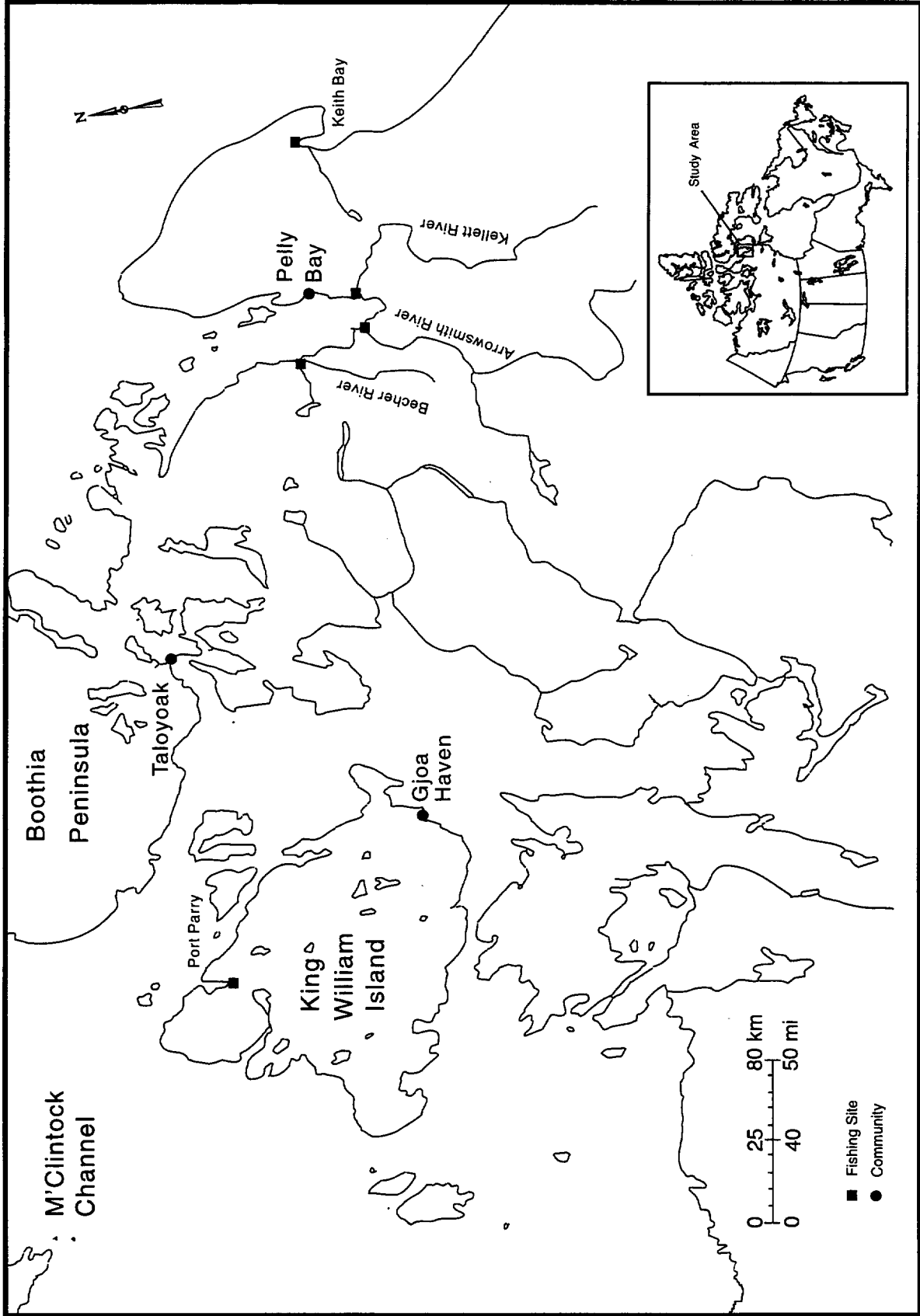


Fig. 5. Map of the Gjoa Haven and Pelly Bay areas showing commercial fishing sites.

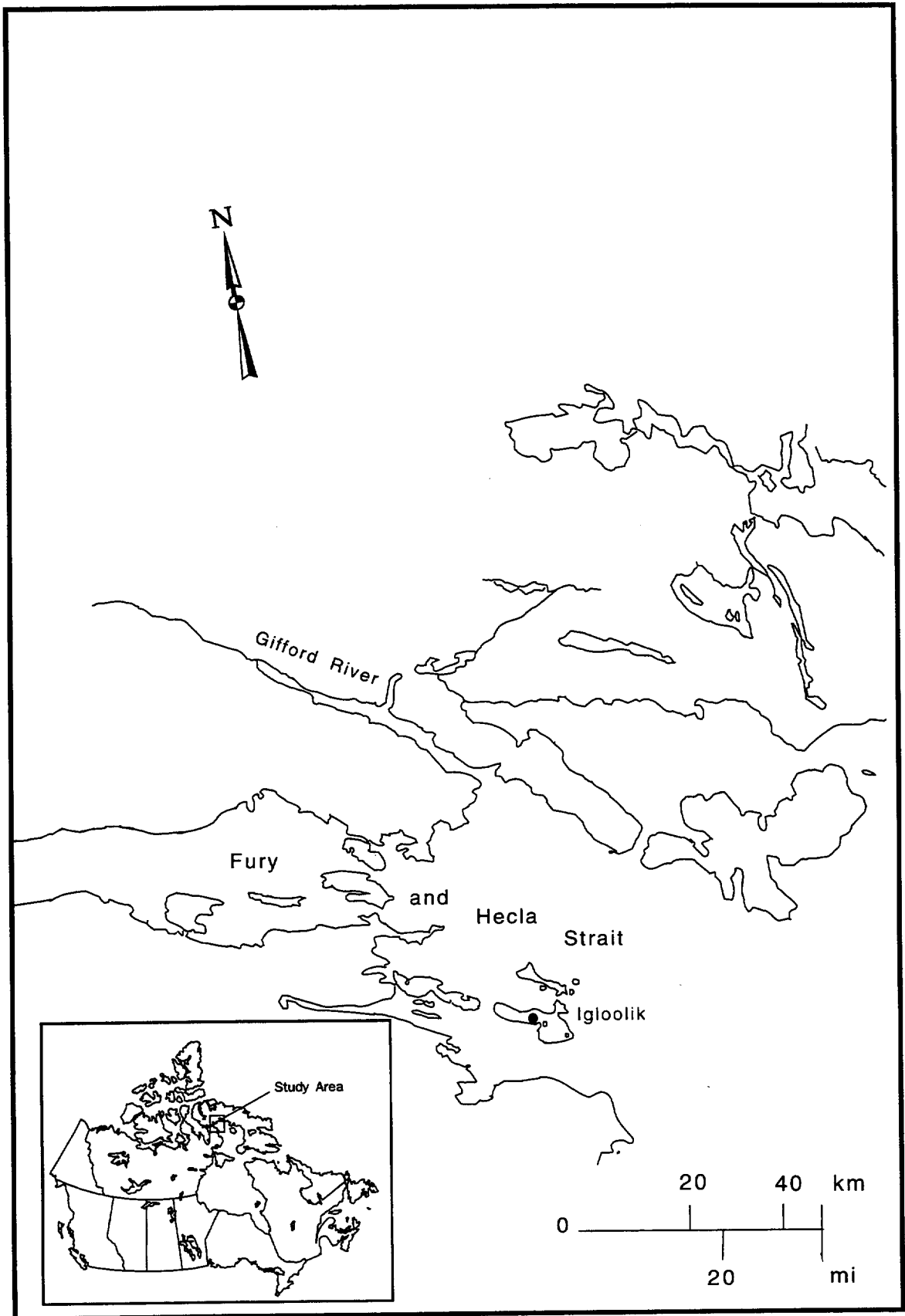


Fig. 6. Map of the Igloolik area showing the Gifford River.

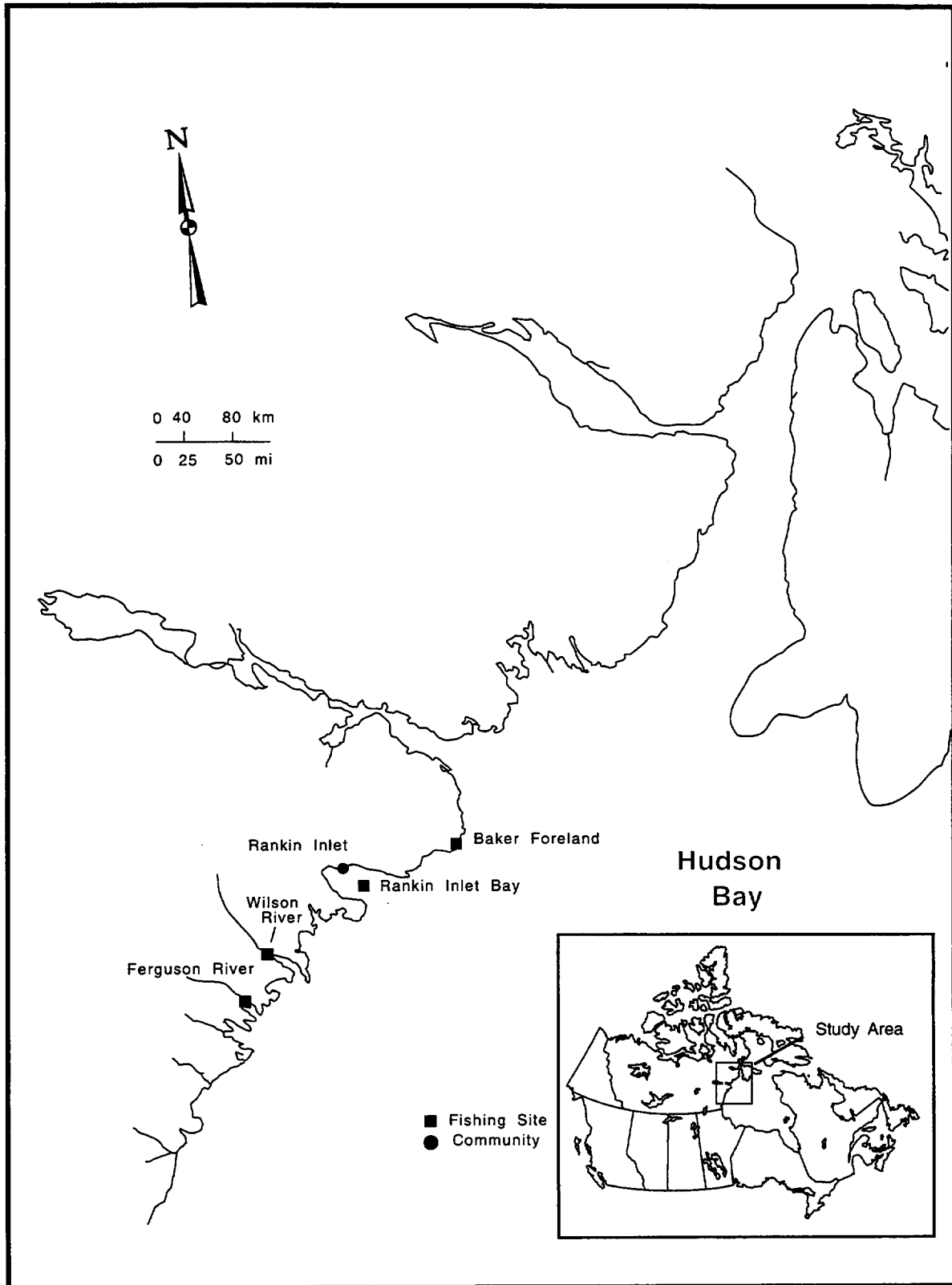


Fig. 7. Map of the District of Keewatin showing commercial fishing sites.

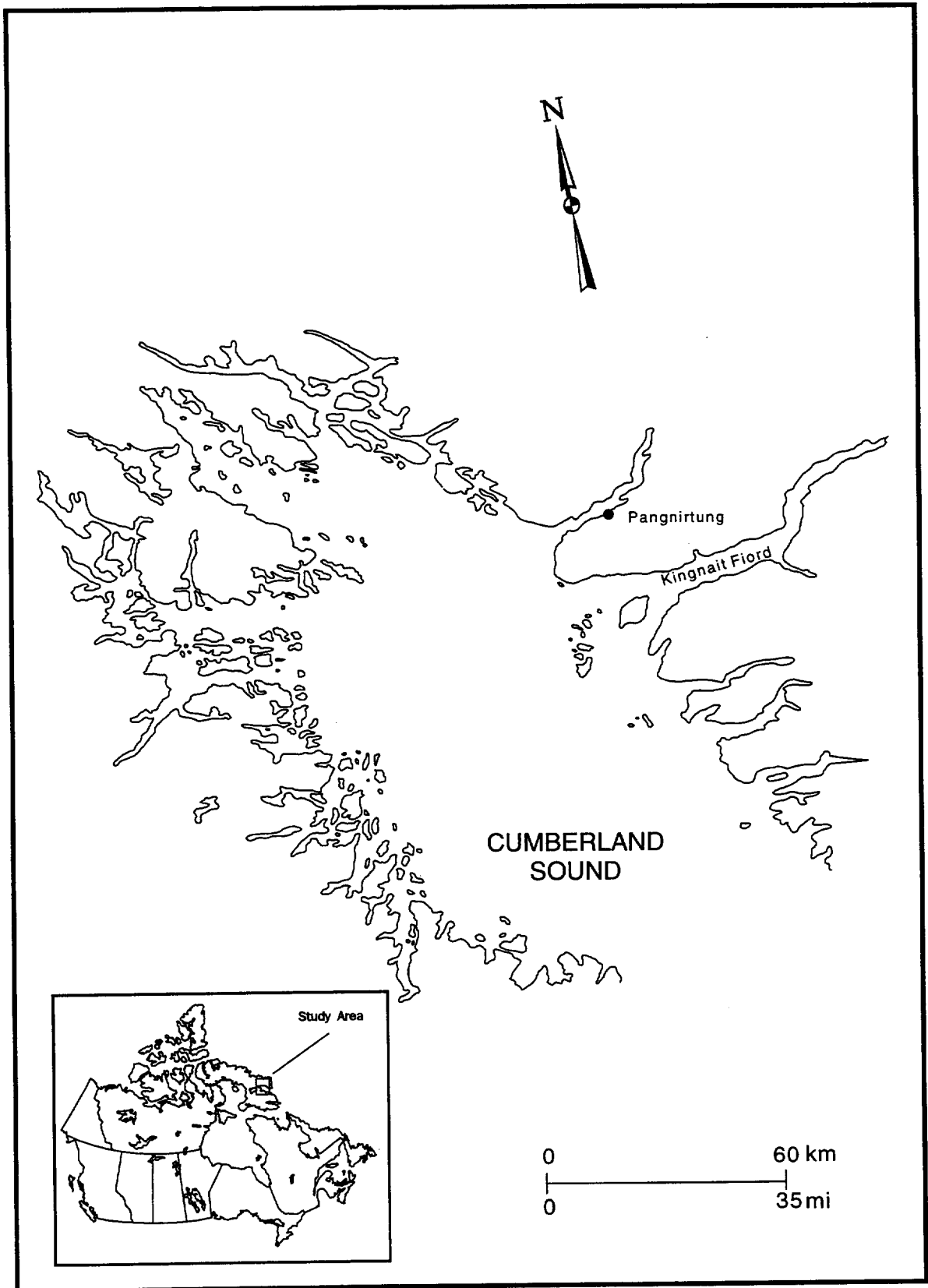


Fig. 8. Map of the Pagnirtung area showing Kingnait Fiord.

Table 1. Annual commercial quotas and harvest of anadromous Arctic charr by fishery sampled in the Northwest Territories during 1989, 1991 and 1992.

	Quota (kg)		Harvest (kg)	
	1991 and 1992		1991	1992
<b><u>Cambridge Bay Area</u></b>				
Ekalluk River	7 500		CLOSED	Nil
Paliryuak River (Surrey River)	9 100		8 953 <sup>1</sup> (7 341) <sup>2</sup>	8 884 (7 107)
Halovik River (30 Mile)	6 800		6 354 (5 083)	6 872 (5 498)
Lauchlan River (Byron Bay)	9 100		8 807 (7 347)	9 320 (7 456)
Jayco River	15 600		2 226 (1 781)	Nil
Kulgayuk River	8 000 (1991) 4 000 (1992)		3 853 (3 082)	Nil
Ellice River	8 000		7 971 (6 377)	Nil
Perry River	6 500		601 ( 481)	Nil
<b><u>Clyde River Area</u></b>				
Naqsaarluk Lake	2 300		1 900 (1 652)	Not Known
<b><u>Coppermine Area</u></b>				
Coppermine River	600		581 ( 505)	603 ( 524)
<b><u>Gjoa Haven Area</u></b>				
Port Parry	1 000		600 (1989) <sup>3</sup> ( 522)	
			745 ( 648)	45 ( 39)
<b><u>Igloodik Area</u></b>				
Gifford River	3 600 (1991) 5 000 (1992)		Nil	7 321 (6 366)

Table 1. Continued.

	Quota (kg)		Harvest (kg)	
	1991 and 1992		1991	1992
<b><u>Keewatin Area</u></b>				
Rankin Inlet	4 000		5 500 (4 783)	1 437 (1 250)
Baker Foreland	4 600		2 648 (2 303)	1 143 ( 994)
Wilson Bay	8 000	(summer)	2 491 (2 166)	1 121 ( 975)
	3 000	(winter)	Nil	Nil
Ferguson River	13 600		4 589 (3 990)	1 014 ( 882)
<b><u>Pangnirtung Area</u></b>				
Kingnait Fiord	4 500		4 545 (3 952)	4 955 (4 309)
<b><u>Pelly Bay Area</u></b>				
Arrowsmith River	1 000		998 ( 868)	198 ( 172)
Becher River	1 000		808 ( 703)	504 ( 438)
Keith Bay	4 500		449 ( 390)	301 ( 262)
Kellett River	1 000		682 ( 593)	686 ( 597)

<sup>1</sup> Round weight in the Cambridge Bay area was calculated using a dressed weight to round weight conversion factor of 1.25 (includes estimate of culls). In all other areas the round weight was calculated using a conversion factor of 1.15 which did not include an estimate of culls.

<sup>2</sup> Dressed weight (viscera and gills removed).

<sup>3</sup> Production in 1989.

Table 2. Summary of sampling from all commercial fisheries during the years 1989, 1991 and 1992.

Location	Year	Sample Size	Mean			Range		
			FL <sup>1</sup> (mm)	DRWT <sup>2</sup> (g)	AGE (yr)	FL (mm)	DRWT (g)	AGE (yr)
<u>Cambridge Bay Area</u>								
Ekalluk River	1991	133	662	3359	11.6	515 - 843	1300 - 7100	7 - 17
	1992	67	685	3217	12.9	550 - 860	1550 - 6125	9 - 20
Paliryuak River	1991	210	678	3024	12.1	505 - 838	1100 - 6100	8 - 19
	1992	209	704	3239	13.3	581 - 854	1660 - 4950	9 - 19
Halovik River	1991	207	701	3155	12.8	588 - 827	1600 - 5200	9 - 18
	1992	210	706	3144	13.2	575 - 855	1670 - 5010	8 - 19
Lauchlan River	1991	210	705	3199	12.2	535 - 841	1450 - 5100	8 - 19
	1992	210	715	3082	13.5	525 - 839	1160 - 4995	9 - 23
Jayco River	1991	100	654	2810	15.0	525 - 770	1400 - 4900	10 - 19
Kulgayuk River	1991	209	667	3233	10.1	525 - 848	1450 - 6600	6 - 14
Ellice River	1991	211	684	4011	9.7	535 - 865	1800 - 6700	5 - 15
Perry River	1991	54	652	3632	9.9	500 - 829	1650 - 6700	6 - 14
<u>Clyde River Area</u>								
Naqsaarluk Lake	1991	67	653	3399 (rd) <sup>3</sup>	13.5	450 - 885	1000 - 6000 (rd)	8 - 18
<u>Coppermine Area</u>								
Coppermine River	1991	114	648	3167 (rd)	8.5	420 - 800	890 - 5300 (rd)	5 - 13
<u>Gioa Haven Area</u>								
Port Parry	1989	89	635	2685 (rd)	-	428 - 745	750 - 4100 (rd)	-
<u>Iqloolik Area</u>								
Gifford River	1992	100	709	4196 (rd)	17.7	565 - 885	1950 - 7900 (rd)	13 - 26
<u>Keewatin Area</u>								
Rankin Inlet	1991	136	598	2210	9.2	514 - 774	1900 - 6100	6 - 14
	1992	27	612	2120	8.8	511 - 707	1600 - 3700	7 - 14
Baker Foreland	1992	122	588	1973	8.9	448 - 760	950 - 4100	5 - 16
Wilson Bay	1992	83	645	2983	9.4	522 - 831	1600 - 6050	6 - 16
Ferguson River	1992	100	611	2524	8.3	516 - 824	1300 - 5600	5 - 13
<u>Pangnirtung Area</u>								
Kingnait Fiord	1991	100	542	1962 (rd)	10.8	510 - 760	1134 - 4196 (rd)	8 - 14
<u>Pelly Bay Area</u>								
Arrowsmith River	1992	100	612	2153 (rd)	-	520 - 742	1134 - 3969 (rd)	-
Becher River	1992	69	603	2095 (rd)	-	460 - 790	907 - 4536 (rd)	-
Keith Bay	1992	98	593	1831 (rd)	-	490 - 720	1021 - 2835 (rd)	-
Kellett River	1992	100	598	1992 (rd)	-	510 - 760	1134 - 4196	-

<sup>1</sup> FL = fork length.<sup>2</sup> DRWT = dressed weight (gills and viscera removed).<sup>3</sup> rd = round weight (gills and viscera not removed).

Table 3. Age composition of Arctic charr taken by commercial test net (139 mm) at Ekalluk River, 1991.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM)		DRESSED WEIGHT(G)	
			MEAN	SD	MEAN	SD
7	1	1	555	-	1850	-
8	3	3	565	17	2067	176
9	13	13	590	41	2262	444
10	20	20	618	48	2733	681
11	14	14	637	54	2989	869
12	18	18	667	59	3431	853
13	17	17	707	54	4294	1074
14	6	6	676	58	3233	632
15	5	5	730	77	4250	1447
16	2	2	718	46	4275	1025
17	3	3	708	26	3517	333
TOTAL	102					
MEAN			652	68	3220	1067
MEAN AGE	11.6					

Table 4. Length composition of Arctic charr taken by commercial test net (139 mm) at Ekalluk River, 1991.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK	DRESSED WEIGHT(G)	
			LENGTH(MM)	MEAN	SD
500	4	3	518	1550	178
550	22	17	574	2098	204
600	31	23	628	2784	304
650	30	23	673	3415	392
700	33	25	717	4108	507
750	10	8	759	5050	574
800	3	2	828	6533	513
TOTAL	133				
MEAN			662	3359	1086

Table 5. Age composition of Arctic charr taken by commercial test net (139 mm) at Ekalluk River, 1992.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM)		DRESSED WEIGHT(G)	
			MEAN	SD	MEAN	SD
9	1	2	570	-	1710	-
10	8	14	634	37	2457	434
11	10	18	632	46	2633	600
12	6	11	642	34	2686	428
13	11	19	697	50	3412	808
14	8	14	709	48	3334	578
15	7	12	743	29	3814	445
16	1	2	825	-	6125	-
17	3	5	691	13	3103	127
18	1	2	860	-	5770	-
20	1	2	800	-	4490	-
TOTAL	57					
MEAN			682	66	3165	917
MEAN AGE	12.9					

Table 6. Length composition of Arctic charr taken by commercial test net (139 mm) at Ekalluk River, 1992.

LENGTH INTERVAL (MM)	NO.	PERCENT	DRESSED WEIGHT(G)	
			MEAN FORK LENGTH(MM)	MEAN SD
550	7	10	574	1873 207
600	12	18	629	2566 400
650	21	31	675	3043 277
700	17	25	721	3645 555
750	6	9	772	4262 592
800	3	4	811	4822 1173
850	1	1	860	5770 -
TOTAL	67			
MEAN			685	3217 915

Table 7. Age composition of Arctic charr taken by the commercial fishery at Paliryuak River, 1991.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM)		DRESSED WEIGHT(G)	
			MEAN	SD	MEAN	SD
8	3	2	599	41	2333	530
9	10	6	614	64	2255	683
10	20	12	627	44	2490	618
11	29	18	661	42	2764	574
12	32	20	666	48	2994	734
13	34	21	699	50	3344	750
14	22	13	703	54	3386	711
15	6	4	693	49	3183	883
16	6	4	767	59	4108	1107
17	1	1	766	-	4650	-
19	1	1	703	-	2800	-
TOTAL	164					
MEAN			673	60	3016	816
MEAN AGE	12.1					

Table 8. Length composition of Arctic charr taken by the commercial fishery at Paliryuak River, 1991.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK	DRESSED WEIGHT(G)	
			LENGTH(MM)	MEAN	SD
500	3	1	517	1233	115
550	10	5	582	2055	286
600	59	28	624	2337	236
650	60	29	675	2999	344
700	51	24	720	3528	454
750	22	10	768	4098	600
800	5	2	816	4560	940
TOTAL	210				
MEAN			678	3024	787

Table 9. Age composition of Arctic charr taken by the commercial fishery at Paliryuak River, 1992.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM)		DRESSED WEIGHT(G)	
			MEAN	SD	MEAN	SD
9	3	2	673	29	2690	335
10	4	2	676	20	2778	265
11	26	15	662	39	2733	524
12	32	18	687	33	3085	523
13	37	21	696	37	3229	525
14	28	16	711	43	3354	633
15	21	12	727	52	3504	700
16	14	8	730	40	3538	639
17	6	3	724	65	3338	754
18	1	1	730	-	3490	-
19	2	1	761	114	3368	336
TOTAL	174					
MEAN			699	46	3194	621
MEAN AGE	13.3					

Table 10. Length composition of Arctic charr taken by the commercial fishery at Paliryuak River, 1992.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK	DRESSED WEIGHT(G)	
			LENGTH(MM)	MEAN	SD
550	2	1	589	1863	286
600	22	11	630	2326	166
650	81	39	675	2917	308
700	64	31	722	3449	405
750	31	15	770	4087	415
800	8	4	818	4301	513
850	1	0	854	3930	-
TOTAL	209				
MEAN			704	3239	661

Table 11. Age composition of Arctic charr taken by the commercial fishery at Halovik River, 1991.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM)		DRESSED WEIGHT(G)	
			MEAN	SD	MEAN	SD
9	3	2	664	4	2677	191
10	19	12	673	40	2913	584
11	18	12	668	39	2933	596
12	35	23	682	43	3000	617
13	31	20	695	39	3158	712
14	21	14	723	45	3360	684
15	10	6	712	34	3160	626
16	14	9	742	61	3471	811
17	1	1	780	-	3700	-
18	3	2	773	58	3667	1177
TOTAL	155					
MEAN			697	49	3126	681
MEAN AGE	12.8					

Table 12. Length composition of Arctic charr taken by the commercial fishery at Halovik River, 1991.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK	DRESSED WEIGHT(G)	
			LENGTH(MM)	MEAN	SD
550	4	2	592	1900	227
600	27	13	637	2461	179
650	78	38	673	2840	326
700	59	29	723	3344	502
750	30	14	771	4010	477
800	9	4	815	4439	466
TOTAL	207				
MEAN			701	3155	690

Table 13. Age composition of Arctic charr taken by the commercial fishery at Halovik River, 1992.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM)		DRESSED WEIGHT(G)	
			MEAN	SD	MEAN	SD
8	3	2	606	17	2025	223
9	1	1	661	-	2740	-
10	19	11	644	33	2472	399
11	19	11	672	40	2938	583
12	29	16	703	38	3106	471
13	32	18	696	33	3099	404
14	18	10	732	41	3398	697
15	29	16	733	38	3395	610
16	17	10	741	55	3446	607
17	5	3	775	50	4026	723
18	2	1	786	6	3913	718
19	3	2	788	8	3583	382
TOTAL	177					
MEAN			706	53	3151	637
MEAN AGE	13.2					

Table 14. Length composition of Arctic charr taken by the commercial fishery at Halovik River, 1992.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK		DRESSED WEIGHT(G)	
			LENGTH(MM)	MEAN	SD	
550	5	2	588	1844	219	
600	28	13	628	2333	265	
650	53	25	677	2846	307	
700	83	40	719	3291	371	
750	33	16	778	3828	455	
800	7	3	813	4342	361	
850	1	0	855	4995	-	
TOTAL	210					
MEAN			706	3144	649	

Table 15. Age composition of Arctic charr taken by the commercial fishery at Lauchlan River, 1991.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM)		DRESSED WEIGHT(G)	
			MEAN	SD	MEAN	SD
8	2	1	603	45	2250	566
9	13	8	639	46	2581	619
10	31	19	653	46	2737	645
11	23	14	676	43	2939	663
12	25	15	694	55	3112	710
13	24	15	719	46	3429	781
14	19	12	730	45	3416	671
15	14	9	738	55	3471	760
16	10	6	759	46	3755	592
17	1	1	755	-	3300	-
18	1	1	761	-	3400	-
19	1	1	825	-	3750	-
TOTAL	164					
MEAN			695	60	3123	755
MEAN AGE	12.2					

Table 16. Length composition of Arctic charr taken by the commercial fishery at Lauchlan River, 1991.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK	DRESSED WEIGHT(G)	
			LENGTH(MM)	MEAN	SD
500	1	0	535	1450	-
550	7	3	583	1886	121
600	36	17	630	2438	297
650	50	24	675	2838	379
700	62	30	725	3453	506
750	41	20	768	3782	551
800	13	6	820	4492	447
TOTAL	210				
MEAN			705	3199	766

Table 17. Age composition of Arctic charr taken by the commercial fishery at Lauchlan River, 1992.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM)		DRESSED WEIGHT(G)	
			MEAN	SD	MEAN	SD
9	2	1	651	41	2425	318
10	10	6	625	39	2241	475
11	31	18	657	42	2641	565
12	19	11	711	32	3226	544
13	28	16	714	41	3124	604
14	25	14	714	45	3143	484
15	25	14	738	42	3259	634
16	16	9	760	49	3363	686
17	8	5	757	44	3306	693
18	6	3	765	45	3278	808
19	1	1	778	-	3175	-
21	1	1	785	-	3055	-
23	1	1	777	-	3415	-
TOTAL	173					
MEAN			710	57	3049	651
MEAN AGE	13.5					

Table 18. Length composition of Arctic charr taken by the commercial fishery at Lauchlan River, 1992.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK	DRESSED WEIGHT(G)	
			LENGTH(MM)	MEAN	SD
500	1	0	525	1160	-
550	2	1	590	2045	177
600	24	11	628	2253	172
650	60	29	677	2741	328
700	57	27	723	3170	464
750	52	25	773	3591	485
800	14	7	810	4007	467
TOTAL	210				
MEAN			715	3082	653

Table 19. Age composition of Arctic charr taken by the commercial fishery at Jayco River, 1991.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM)		DRESSED WEIGHT(G)	
			MEAN	SD	MEAN	SD
10	2	3	599	44	1925	460
12	4	6	592	16	2125	194
13	6	9	624	76	2558	961
14	14	21	638	45	2736	468
15	15	22	677	26	3107	437
16	13	19	667	55	3058	792
17	8	12	670	20	3106	419
18	3	4	684	56	3050	912
19	2	3	708	39	2950	1061
TOTAL	67					
MEAN			655	50	2869	660
MEAN AGE	15.0					

Table 20. Length composition of Arctic charr taken by the commercial fishery at Jayco River, 1991.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK	DRESSED WEIGHT(G)	
			LENGTH(MM)	MEAN	SD
500	3	3	534	1550	50
550	13	13	576	1888	265
600	24	24	624	2483	285
650	43	43	674	3028	418
700	13	13	714	3438	390
750	4	4	765	4313	674
TOTAL	100				
MEAN			654	2810	695

Table 21. Age composition of Arctic charr taken by the commercial fishery at Kulgayuk River, 1991.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM)		DRESSED WEIGHT(G)	
			MEAN	SD	MEAN	SD
6	1	1	615	-	2850	-
7	2	2	598	74	2400	849
8	13	10	617	42	2473	461
9	28	21	632	46	2739	635
10	40	30	650	44	3075	769
11	24	18	692	56	3556	987
12	16	12	744	44	4359	998
13	6	5	690	59	3450	817
14	2	2	685	42	3250	283
TOTAL	132					
MEAN			663	61	3195	948
MEAN AGE	10.1					

Table 22. Length composition of Arctic charr taken by the commercial fishery at Kulgayuk River, 1991.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK	DRESSED WEIGHT(G)	
			LENGTH(MM)	MEAN	SD
500	4	2	537	1713	180
550	28	13	583	2145	180
600	57	27	630	2689	332
650	56	27	670	3269	398
700	42	20	721	3816	361
750	18	9	772	4908	573
800	4	2	818	5988	457
TOTAL	209				
MEAN			667	3233	935

Table 23. Age composition of Arctic charr taken by the commercial fishery at Ellice River, 1991.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM)		DRESSED WEIGHT(G)	
			MEAN	SD	MEAN	SD
5	1	1	535	-	1800	-
7	8	5	622	48	3156	826
8	19	13	628	47	3061	729
9	37	24	665	43	3692	846
10	40	26	686	48	4000	912
11	34	22	709	45	4391	913
12	11	7	751	48	5241	962
13	1	1	770	-	5900	-
15	1	1	685	-	4150	-
TOTAL	152					
MEAN			679	58	3939	1046
MEAN AGE	9.7					

Table 24. Length composition of Arctic charr taken by the commercial fishery at Ellice River, 1991.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK	DRESSED WEIGHT(G)	
			LENGTH(MM)	MEAN	SD
500	2	1	538	1900	141
550	14	7	587	2500	169
600	44	21	627	3036	363
650	66	31	676	3774	445
700	59	28	721	4659	541
750	20	9	769	5543	506
800	5	2	806	6540	164
850	1	0	865	6400	-
TOTAL	211				
MEAN			684	4011	1062

Table 25. Age composition of Arctic charr taken by the commercial fishery at Perry River, 1991.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM)		DRESSED WEIGHT(G)	
			MEAN	SD	MEAN	SD
6	2	5	535	35	1875	318
7	1	2	550	-	2200	-
8	5	12	582	73	2750	924
9	9	21	625	61	3167	1019
10	14	33	647	59	3600	1079
11	4	9	700	71	4650	1580
12	4	9	667	48	3700	672
13	1	2	665	-	4000	-
14	3	7	739	30	4950	450
TOTAL	43					
MEAN			641	72	3508	1186
MEAN AGE	9.9					

Table 26. Length composition of Arctic charr taken by the commercial fishery at Perry River, 1991.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK	DRESSED WEIGHT(G)	
			LENGTH(MM)	MEAN	SD
500	3	6	506	1733	76
550	10	19	571	2345	242
600	13	24	622	2877	397
650	11	20	671	4082	361
700	12	22	718	4821	575
750	4	7	770	5163	946
800	1	2	829	6700	-
TOTAL	54				
MEAN			652	3632	1250





Table 31. Length composition of Arctic charr taken by the commercial fishery at Port Parry, 1989.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK	ROUND WEIGHT(G)		K
			LENGTH(MM)	MEAN	SD	
400	1	1	428	750	.	0.96
450	1	1	468	950	.	0.93
550	15	17	579	2113	226	1.09
600	35	39	626	2543	316	1.03
650	33	37	671	3071	419	1.01
700	4	4	721	3813	225	1.02
TOTAL MEAN	89		635	2685	605	1.03



Table 34. Age composition of Arctic charr taken by the commercial fishery at Rankin Inlet, 1991.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM)		DRESSED WEIGHT(G)	
			MEAN	SD	MEAN	SD
6	3	3	516	40	1417	333
7	10	9	544	36	1690	355
8	23	20	568	33	1934	313
9	30	27	593	41	2240	536
10	27	24	630	56	2489	635
11	14	12	632	37	2561	480
12	5	4	609	32	2190	525
14	1	1	667	-	2650	-
TOTAL	113					
MEAN			596	53	2208	573
MEAN AGE	9.2					

Table 35. Length compositions of Arctic charr taken by the commercial fishery at Rankin Inlet, 1991.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK	DRESSED WEIGHT(G)	
			LENGTH(MM)	MEAN	SD
450	2	1	476	1025	35
500	16	12	529	1643	203
550	52	38	573	1947	190
600	48	35	620	2351	287
650	14	10	675	3111	284
700	3	2	709	3480	339
750	1	1	769	4200	-
TOTAL	136				
MEAN			598	2210	546

Table 36. Age composition of Arctic charr taken by the commercial fishery at Rankin Inlet, 1992.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM)		DRESSED WEIGHT(G)	
			MEAN	SD	MEAN	SD
7	4	19	588	38	1813	263
8	6	29	585	38	1858	356
9	6	29	625	28	2275	327
10	4	19	599	16	2038	320
14	1	5	598	-	1900	-
TOTAL	21					
MEAN			600	33	2005	347
MEAN AGE	8.8					

Table 37. Length composition of Arctic charr taken by the commercial fishery at Rankin Inlet, 1992.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK	DRESSED WEIGHT(G)	
			LENGTH(MM)	MEAN	SD
500	1	4	511	1250	-
550	13	48	585	1854	233
600	8	30	621	2156	127
650	3	11	664	2683	202
700	2	7	721	3300	566
TOTAL	27				
MEAN			612	2120	503

Table 38. Age composition of Arctic charr taken by the commercial fishery at Baker Foreland, 1992.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM)		DRESSED WEIGHT(G)	
			MEAN	SD	MEAN	SD
5	1	1	488	-	1650	-
6	5	5	515	29	1450	316
7	21	20	536	39	1590	372
8	21	20	574	36	1821	335
9	25	24	598	34	2082	358
10	13	13	614	39	2158	397
11	9	9	609	39	1954	468
12	5	5	665	80	2760	736
13	2	2	676	23	2575	106
15	1	1	704	-	2900	-
16	1	1	682	-	2200	-
TOTAL	104					
MEAN			585	56	1945	490
MEAN AGE	8.9					

Table 39. Length composition of Arctic charr taken by the commercial fishery at Baker Foreland, 1992.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK	DRESSED WEIGHT(G)	
			LENGTH(MM)	MEAN	SD
400	1	1	448	1800	-
450	7	6	484	1129	238
500	17	14	529	1497	205
550	46	38	572	1820	200
600	32	26	616	2181	231
650	16	13	668	2588	324
700	1	1	704	2900	-
750	2	2	758	3900	283
TOTAL	122				
MEAN			588	1973	513

Table 40. Age composition of Arctic charr take by the commercial fishery at Wilson Bay, 1992.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM)		DRESSED WEIGHT(G)	
			MEAN	SD	MEAN	SD
6	3	4	540	9	1800	150
7	17	23	576	33	2253	377
8	12	16	601	17	2342	143
9	6	8	620	27	2400	385
10	14	19	668	62	3207	1097
11	10	13	698	55	3735	1125
12	7	9	706	51	3693	819
13	4	5	750	52	4675	1156
15	1	1	701	-	4450	-
16	1	1	761	-	4350	-
TOTAL	75					
MEAN			641	72	2957	1065
MEAN AGE	9.4					

Table 41. Length composition of Arctic charr taken by the commercial fishery at Wilson Bay 1992.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK	DRESSED WEIGHT(G)	
			LENGTH(MM)	MEAN	SD
500	6	7	531	1783	191
550	22	27	584	2232	250
600	22	27	619	2411	220
650	8	10	666	2931	351
700	14	17	714	4021	401
750	9	11	764	4839	357
800	2	2	826	5700	495
TOTAL	83				
MEAN			645	2983	1081

Table 42. Age composition of Arctic charr taken by the commercial fishery at Ferguson River, 1992.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM)		DRESSED WEIGHT(G)	
			MEAN	SD	MEAN	SD
5	1	1	518	-	1500	-
6	6	7	556	17	2000	319
7	25	28	582	26	2204	290
8	27	30	609	43	2531	550
9	15	17	620	36	2687	605
10	4	4	650	31	2713	338
11	7	8	671	30	3086	943
12	2	2	669	15	2900	0
13	3	3	735	88	4167	1450
TOTAL	90					
MEAN			611	52	2533	685
MEAN AGE	8.3					

Table 43. Length composition of Arctic charr taken by the commercial fishery at Ferguson River, 1992.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK	DRESSED WEIGHT(G)	
			LENGTH(MM)	MEAN	SD
500	7	7	530	1621	248
550	42	42	578	2155	164
600	29	29	620	2647	266
650	18	18	673	3081	516
700	3	3	724	4233	751
800	1	1	824	5600	-
TOTAL	100				
MEAN			611	2524	672



Table 46. Length composition of Arctic charr taken by the commercial fishery at Arrowsmith River, 1992.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK	ROUND WEIGHT(G)		K
			LENGTH(MM)	MEAN	SD	
500	11	11	532	1484	398	0.98
550	33	33	578	1783	203	0.92
600	31	31	617	2132	175	0.91
650	16	16	673	2686	388	0.88
700	9	9	708	3452	322	0.97
TOTAL MEAN	100		612	2153	604	0.92

Table 47. Length composition of Arctic charr taken by the commercial fishery at Becher River, 1992.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK	ROUND WEIGHT(G)		K
			LENGTH(MM)	MEAN	SD	
450	2	3	463	907	0	0.92
500	9	13	532	1448	203	0.96
550	30	43	570	1686	170	0.91
600	13	19	625	2224	220	0.91
650	7	10	665	2722	844	0.92
700	4	6	723	3771	438	1.00
750	4	6	774	4026	439	0.87
TOTAL MEAN	69		603	2095	839	0.92

Table 48. Length composition of Arctic charr taken by the commercial fishery at Keith Bay, 1992.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK	ROUND WEIGHT(G)		K
			LENGTH(MM)	MEAN	SD	
450	3	3	493	1285	364	1.07
500	13	13	522	1352	199	0.95
550	34	35	576	1724	178	0.90
600	39	40	619	1983	193	0.84
650	6	6	665	2325	156	0.79
700	3	3	707	2684	173	0.76
TOTAL MEAN	98		593	1831	355	0.88

Table 49. Length composition of Arctic charr taken by the commercial fishery at Kellett River, 1992.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK	ROUND WEIGHT(G)		K
			LENGTH(MM)	MEAN	SD	
500	8	8	531	1360	148	0.91
550	45	45	574	1764	142	0.93
600	37	37	618	2136	254	0.90
650	6	6	665	2533	434	0.86
700	3	3	710	3515	227	0.98
750	1	1	760	4196	.	0.96
TOTAL MEAN	100		598	1992	495	0.92