

FALKLAND ISLANDS GOVERNMENT FISHERIES DEPARTMENT



FISHERY STATISTICS

**Volume 1
(1989 - 1996)**

FALKLAND ISLANDS GOVERNMENT
FISHERIES DEPARTMENT



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Volume 1
(1989-1996)

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FALKLAND ISLANDS GOVERNMENT FISHERIES DEPARTMENT



FISHERIES STATISTICS

FOREWORD

This bulletin is the second in what is intended to be a series of statistical bulletins describing the performance of the Falkland Islands fishery. The bulletin complements the first report on the fishery which covered the years 1987/88 and extends this coverage for the eight year period 1989 - 1996. It is intended that the general format will remain unchanged and that future editions will be produced on an annual basis.

The Falkland Islands Conservation Zones continue to be rich fishing grounds, particularly for the two important squid species, *Illex argentinus* and *Loligo gahi*. Fisheries of considerably smaller magnitude have also continued for the main finfish species of blue whiting, hake and whiptail hake (hoki).

The conservation of sustainable resources through effective management of fishing effort, continues to be the primary objective of the Falkland Islands Government (FIG).

The general pattern of activity within the fishery has remained broadly similar to that outlined in the 87/88 report. The squid species, *Illex argentinus*, has continued to be fished primarily by far eastern jiggers whereas the smaller inshore squid species *Loligo gahi* and other finfish species, particularly hake, have been the target of the European bottom trawling fleet. Over the reporting period the southern blue whiting fishery has seen the predominantly Polish fleet of the late 80's and early 90's replaced by larger surimi producing vessels of Japanese and Chilean origin.

At the time the 87/88 report was produced, most aspects of the operation of the fishery were relatively new and developments were occurring at a rapid pace. At present, the operation of the fishery has reached a relatively stable position, however, there have been a number of significant developments since the 87/88 report.

The Falkland Islands Fishery (01 February 1987 - 01 February 1997)

01 February 1997 saw the 10th anniversary of the implementation of the fisheries regime in the Falkland Islands following the announcement of the introduction of the Falkland Islands Interim Conservation and management Zone (FICZ) in October 1986.

The fishery has been a success over the last 10 years, despite significant concerns for the conservation of the migratory squid species *Illex argentinus*, whose distribution includes the high seas beyond 200 miles and the Argentine economic zone. This success has been and continues to be a tribute to the dedication and hard work of personnel within the Falkland Islands Government, Her Majesty's Government, Imperial College London, Marr Vessel Management and many others including the fishermen and fishing companies of various countries. In the ten years ; Falkland Islands fisheries vessels have steamed approximately 825, 000 nautical miles (equivalent almost to two return voyages to the moon); Fishery observers have measured 1,197,664 squid at sea in order to gather data for input to stock assessments; and £245 million has been collected in licence revenue.

Developments since the 1987/88 Fisheries report.

i) Falkland Islands Outer Conservation Zone (FOCZ)

Perhaps the most significant development in the intervening period since the initial 87/88 report, relates to the declaration of the Falkland Islands Outer Conservation Zone (FOCZ), and at the same time the setting up of the South Atlantic Fisheries Commission (SAFC) in 1991. The FOCZ was introduced on 26th December 1990, and extends beyond the FICZ to the north, east and south of the Falkland Islands to 200 miles, measured from coastal baselines.

ii) South Atlantic Fisheries Commission (SAFC)

The SAFC is composed of delegations from Britain and Argentina with participation of observers from the Falkland Islands as part of the British delegation. The SAFC provides a forum for exchanging information on marine living resources, and for the discussion and implementation of measures to improve the conservation of commercially significant stocks in the southwest Atlantic. The first and second meetings of the SAFC took place in May and December of 1991 in Buenos Aires and London respectively. Meetings have continued at regular intervals with the 12th meeting taking place in Buenos Aires in November 1996.

iii) Voluntary Restraint Agreements (VRA)

Another important feature of the intervening years since the 87/88 report, was the development of the Voluntary Restraint Policy through Voluntary Restraint Agreements (VRA). It increasingly became apparent that despite the introduction of the FICZ that the widely distributed and highly migratory *Illex* squid required further protection. The VRAs were conceived as a means of reducing fishing effort directed at *Illex* on the high seas and in the Southwest Atlantic generally. The VRAs have had moderate success in improving conservation of *Illex* by controlling the activities of a number of major fishing fleets on the high seas. Since 1993, when the Argentine zone opened to foreign fishing (see Argentine developments) it has proved too difficult to maintain the VRA policy. In order to be effective a similar policy would need to be adopted by Argentina.

iv) Licence conditions

A more gradual but nonetheless significant development in the operation and control of the fishery has been the general reduction in fishing effort, the introduction and refinement of licence types and constant review of licence conditions. The requirement for such changes has come about in the light of experience and through appropriate analysis of the comprehensive data collected since the introduction of the FICZ. In the early years of the fishery (87 - 89) reductions in licences for the squid species *Loligo gahi* led to a large demand for licences to catch hake for which there had previously been little demand. As data was acquired on the hake fishery, it became apparent that fishing effort needed to be reduced, which has been done. The general reduction in the number of licences for *Loligo gahi* and hake has resulted in increased interest in some of the previously under-utilised species which is likely to continue. Despite the reduction in fishing effort there have been periods when major squid markets have been over supplied. This has reduced interest in licences at times although demand for licences has generally remained strong. New licence types have been introduced, specifically for skate (Rajidae) and Patagonian toothfish (*Dissostichus eleginoides*).

v) Commercial activity

The style and extent of private sector commercial activity has also changed. The 87/88 report described the operation of Stanley Fisheries Limited, which as a subsidiary of the Falkland Islands Development Corporation (FIDC) was set up to enter into joint venture agreements to develop the commercial side of the fishing industry in the Falkland Islands, and to provide supporting services for that industry. Following the well publicised collapse of the Seamount Limited joint venture, it was decided to withdraw from the entire joint venture system. Since then, the Falkland Islands Government (FIG) has sought to develop and stimulate Falkland Islands involvement in the fishery through a series of policy statements. The policy has attempted to maintain a number of the partnerships formed during the time that the joint venture scheme was in place and encouraged the development of new partnerships with Falkland Islands' companies. The main purpose of the

policy has been to promote and develop a commercial fisheries sector within the economy of the Falkland Islands. The policy has also sought to create opportunities for Falkland Island companies and residents. Whilst the policy has allowed a variety of commercial arrangements, joint ventures and vessel ownership have proved the most popular. There are currently 13 vessels on the Falkland Islands register and their number is slowly increasing.

vi) Argentine developments

The Argentine exclusive economic zone lies to the west of the Falkland Islands conservation zones. A number of important species have a transboundary distribution or migration and of these the most important are the squid *Illex argentinus* and the Southern blue whiting *Micromesistius australis*. Stocks of both species are shared between the Falkland Islands and Argentina, together with the high seas beyond 200 miles in the case of *Illex*. As a consequence developments in the Argentine fishery have some potential to impact on the Falkland Islands fishery. In this context the development of the Argentine *Illex* fishery in 1993 has had a significant impact. Prior to 1993 catches of *Illex* in the Argentine zone were relatively low : 46,000 tonnes in 1991. In 1993 Argentina started allowing foreign flag vessels into her zone to catch *Illex* and also started building up her domestic fleet. As a result catches increased to a record 260,000 tonnes in the Argentine zone in 1996. The opening of the Argentine zone in 1993 gave boat owners more choice as to fishing grounds. Lower licence fees in Argentina together with generous export subsidies, and the absence of VRA made Argentine licences appear more attractive. The main point of concern for the Falkland Islands is whether the increase in effort can be justified. From the Falkland Island's viewpoint the total level of effort directed at *Illex* including that on the high seas is too high. There needs to be a reduction. This assessment is borne out by the results of joint United Kingdom/Argentine research cruises. Additionally in recent years both Argentina and the Falkland Islands have closed their respective fisheries for *Illex* earlier than the scheduled end to the season, in order to conserve stocks.

vii) High seas

The Falkland Island Government introduced a High seas fishing ordinance in 1995. This ordinance makes provision for the implementation of the Food and Agriculture Organisation of the United Nations (FAO) agreement to promote compliance with international conservation and management measures by fishing vessels on the high seas. It also makes provision for implementing the United Nations agreement relating to the conservation of straddling and highly migratory fish stocks. As a consequence all fishing vessels registered in the Falkland Islands require licences to fish on the high seas. They are obliged to provide daily position reports together with details of their catches.

John Barton,
Director of Fisheries,
Falkland Islands Government,
Fisheries Department.

PREFACE

This bulletin of fishery statistics provides a descriptive summary of data provided to the Fisheries Department of the Falkland Islands Government by vessels licensed to operate in Falkland Islands waters.

The annual period used to define these statistics has been standardised to represent the calendar year beginning on 01 January and ending on 31 December. Descriptive charts contained within the bulletin present catch data for two seasons. In these instances the terms of the first and second season are 01 January to 30 June and 01 July to 31 December respectively.

Licence conditions dictate that every fishing vessel provides a daily catch report referenced to a grid square defining catch position. The reporting grid is formed of grid squares of 15 minutes latitude by 30 minutes longitude covering the areas of the Falkland Islands Interim Conservation and management Zone (FICZ) and Falkland Islands Outer Conservation Zone (FOCZ).

Although catch data is reported to the Fisheries Department in kilograms, the statistical tables present data summarised and rounded to the nearest metric ton (tonne). Discrepancies between the individual sum of table cells and the appropriate table total are artefacts of this method of aggregation. Within the table structure, the flag of the vessel taking the catches is used to assign catches to a particular fleet, a cell value of zero represents catches of less than 0.5 tonnes and a blank cell value indicates no reported catch.

Where tables and charts detail catches by parameter size class, the bottom register contains all values greater than and including the lower limit of that class. Similarly, the top register contains all parts of the integer value describing the higher limit of the class. The symbol ' $<$ ' includes all values less than the integer value to the right of the symbol and the symbol ' \geq ' includes all values greater than or equal to the integer value to the right of the symbol.

The statistics presented include all reported catches of major commercial species of fish and squid within Falkland Islands waters. For reference purposes two sets of species codes are presented in the appropriate summary table. The Falkland Islands Fisheries Department Code (FIFD) and the Food and Agriculture Organisation of the United Nations (FAO) code (a 3-alfa species identification code defined by the International Standard Statistical Classification of Aquatic Animals and Plants (ISSCAAP)). The FIFD code is used within the statistical tables to define species.

The information on licences (Tables B1 to B13) reflects the total number of licences issued. In most cases this exceeds the number of vessels, as a number of vessels are allocated more than one licence type. Finfish licences are allocated in monthly units. Consequently a vessel allocated a finfish licence for one month, will be recorded as one licence in that particular licence category. In a number of years, vessels in the *Illex* fishery have not fished for the full season. As a result the number of 'full season licence equivalents' would be rather less than the number of *Illex* licences issued in many cases.

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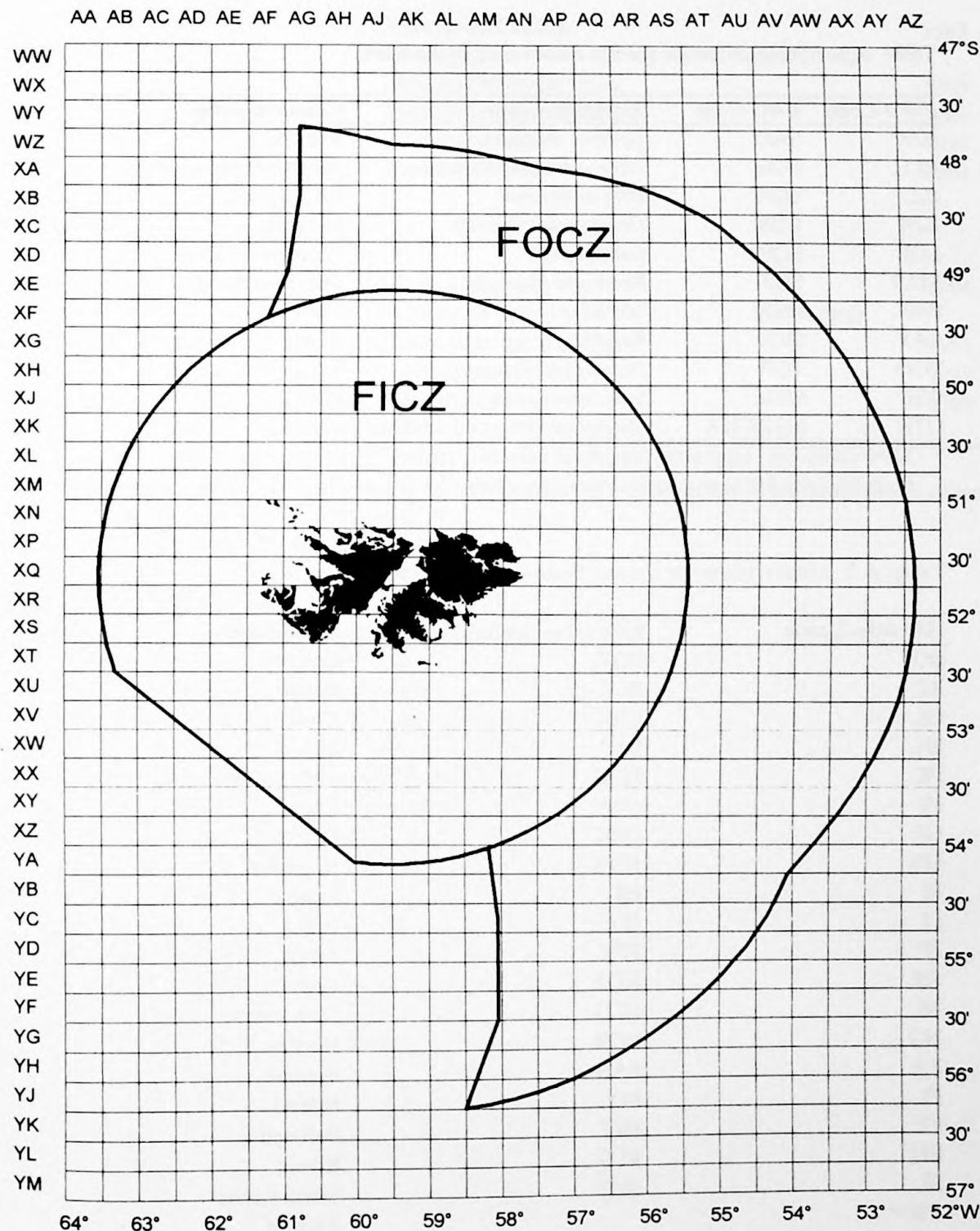
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Introduction

Figure A.1 Chart of the Falkland Islands Interim Conservation and Management Zone (FICZ) and Falkland Islands Outer Conservation Zone (FOCZ)



Introduction

Table A.1 Abbreviations for vessel types used in the tables

FIFD Code	Vessel type
CO	Combination (trawler - jigger)
JI	Jigger
LO	Longliner
TR	Trawler

Table A.2 Abbreviations for species names used in the tables

FIFD Code	FAO Code	Scientific name	Common name
BAC	SAO	<i>Salilota australis</i>	Red cod
BLU	POS	<i>Micromesistius australis</i>	Southern blue whiting
ILL	SQA	<i>Illex argentinus</i>	Illex squid
KIN	CUS	<i>Genypterus blacodes</i>	Kingclip
LOL	SQP	<i>Loligo gahi</i>	Patagonian squid
MAR	SQS	<i>Martialia hyadesi</i>	Martialia squid
PAT	HKX	<i>Merluccius spp</i> *	Hake
RAY	SRX	Rajidae	Skates and rays
TOO	TOP	<i>Dissostichus eleginoides</i>	Patagonian toothfish
WHI	GRM	<i>Macruronus magellanicus</i>	Hoki
OTH	MZZ/SKX	Osteichthyes/Chondrichthyes	Others

* - *Merluccius spp.* represents catches of only two species:

M. hubbsi (ca 80%) and *M. australis* (ca 20%) .

Table A.3 Abbreviations for fishing fleets used in the tables

ISO Alfa-2 code	ISO Alfa-3 code	Fishing Fleet
BG	BGR	Bulgaria
BZ	BLZ	Belize
CL	CHL	Chile
ES	ESP	Spain
FK	FLK	Falkland Islands
FR	FRA	France
GR	GRC	Greece
HN	HDN	Honduras
IS	ISL	Iceland
IT	ITA	Italy
JP	JPN	Japan
KR	KOR	Korea
NL	NLD	Netherlands
NO	NOR	Norway
PA	PAN	Panama
PL	POL	Poland
PT	PRT	Portugal
RU	RUS	Russia
SL	SLE	Sierra Leone
TW *		Taiwan
UK	GBR	United Kingdom
UR	UKR	Ukraine
US	USA	United States of America

* - Taiwan is coded TW for these statistics.

Introduction

Table A.4 Licence types, target species and periods of application 1989 - 1996

Licence*	Target species	Period of application
First Season		
A	Unrestricted finfish	1989 - 1996
B	Illex squid	1989 - 1992
	Illex and Martialia squid	1993 - 1996
C	Patagonian squid (Loligo)	1989 - 1996
F	Skates and rays	1995 - 1996
W	Restricted finfish**	1994 - 1996
Second Season		
R	Skate and rays	1994 - 1996
X	All species	1989 - 1990
	Patagonian squid (Loligo)	1991 - 1996
Y	Unrestricted finfish	1989 - 1996
Z	Restricted finfish**	1989 - 1996

* Experimental fishing licences (E) are issued on an occasional basis in support of the development of new fishery resources.

**Restricted finfish - Main target species :

Micromesistius australis - Southern blue whiting - BLU

Macruronus magellanicus - Hoki - WHI

No *Merluccius spp.* - Hakes - PAT, permitted.

Licences

Table B.1 Licence allocations by licence type and year

LICENCE	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
A	40	33	17	13	4	10	5	5		
B	162	144	170	165	159	164	120	114		
C	46	38	16	20	23	22	17	19		
E	7	5		2	2	6	6	5		
F						4		5		
R						9	10	11		
W			11	16	14	30	30	29		
X	23	20	19	23	30	27	23	24		
Y	70	17	15	10	5	10	9	6		
Z	24	35	40	46	43	48	60	43		
	372	292	288	295	280	326	284	261		

Table B.2 Licence allocations by fishing fleet and year

Fishing fleet	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
BG	9	14	8	7	2					
BZ							1			
CL	1	1		6	3	8	8		4	
ES	99	72	66	74	75	108	100	70		
FK	7	4	2	3	4	8	19	37		
FR					5	3		4		
GR	5	3								
HN			2	3	4	7	8	3		
IS								1		
IT	7	3	2	5	6	3	2			
JP	95	82	77	63	30	36	13	11		
KR	30	32	42	55	60	87	106	112		
NL	1	1								
NO		2						1		
PA			5	4	3	3	2	3		
PL	68	53	40	21	8	8	4	2		
PT	7	7	4	4	4	4	8	4		
RU						1				
SL				1	1	1				
TW	32	17	39	49	79	43	8	3		
UK	11	1	1		1	3	2	5		
UR						1				
US								1		
	372	292	288	295	280	326	284	261		

Licences

Table B 3 Licence 'A' (Unrestricted finfish - first season) allocations by fishing fleet and year

Fishing fleet	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
BG		2								
ES	15	11	12	11	3	6	4	2		
FK	1	1				1	1	2		
FR						1				
IT				1	1					
JP	4					1				
NO		1								
PL	16	15	3							
PT	3	3	2	1						
UK	1					1		1		
	40	33	17	13	4	10	5	5		

Table B 4 Licence 'B' (Illex squid) allocations by fishing fleet and year

Fishing fleet	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
BG		1								
BZ							1			
CL						1				
ES	2	2		1	3	22	19	16		
FK			1				1	2		
FR						1	1	1		
HN					1	2	3			
IT				1	1	1	1			
JP	77	79	76	61	23	27	7	7		
KR	27	31	37	43	49	63	77	84		
PL	24	14	17	10	2	2		2	1	
PT					1			2		
TW	32	17	39	49	79	43	8	3		
UK						1				
UR						1				
	162	144	170	165	159	164	120	114		

Licences

Table B.5 Licence 'C' (Patagonian squid) allocations by fishing fleet and year

Fishing fleet	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
CL	1	1		1	1	1	1	1	1	
ES	23	21	8	11	13	11	9	7		
FK	1	2		1	1	2	5	8		
FR						1	1	1		
GR	2	2								
IT	5	2	1	1	1					
JP	1	1	1	2	2	2				
NL	1	1								
NO		1								
PL	3	3	3	3	3	2				
PT	4	3	2	1	2	2	1	1		
UK	5	1	1			1		1		
	46	38	16	20	23	22	17	19		

Table B.6 Licence 'E' (Experimental) allocations by fishing fleet and year

Fishing fleet	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
BG	3	4								
CL				2	1	5	5			
FK	2									
IS								1		
KR					1		1	2		
NO								1		
PL	1	1								
RU						1				
UK		1								
US								1		
	7	5		2	2	6	6	5		

Table B.7 Licence 'F' (Skates and rays - first season) allocations by fishing fleet and year

Fishing fleet	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
KR							4	5		
							4	5		

Licences

Table B.8 Licence 'R' (Skates and rays - second season) allocations by fishing fleet and year

Fishing fleet	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
ES							1			
HN						1	1	1		
KR					7		8	9		
PA						1		1		
							9	10	11	

Table B.9 Licence 'W' (Restricted finfish - first season) allocations by fishing fleet and year

Fishing fleet	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
BG					2					
CL								1		
ES			1		11	11	16	15	16	
FK							2		6	
FR								1		
HN						2	2	1		
IT						1	1			
JP						1	3	1		
KR						8	2			
PA					1	1	1	1		
PL			10		5		1	2	1	
PT							2		1	
			11		16	14	30	30	29	

Table B.10 Licence 'X' (Patagonian squid - second season) allocations by fishing fleet and year

Fishing fleet	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
CL					1	1	1	1	1	
ES	11	15	17	20	22	19	11	10		
FK	2	1	1	1	2	3	6	9		
FR						1	1	1		
GR	2	1								
IT	2	1	1	1	2					
JP	5	2			2	2	2	2		
PT				1	1	1	1			
UK	1						1	1		
	23	20	19	23	30	27	23	24		

Licences

Table B.11 Licence 'Y' (Unrestricted finfish - second season) allocations by fishing fleet and year

Fishing fleet	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
BG	6	2	2	1						
CL				3						
ES	48	13	12	3	3	7	5	3		
FK	1			1	1	2	3	2		
FR						1				
GR	1									
IT				1						
JP	8					1				
KR	3	1								
PA			1							
PT		1		1						
UK	3						1	1		
	70	17	15	10	5	10	9	6		

Table B.12 Licence 'Z' (Restricted finfish - second season) allocations by fishing fleet and year

Fishing fleet	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
BG		5	6	6						
CL							1	1		
ES		10	16	17	20	27	36	16		
FK							1	8		
HN		2	3	3	2	2	2	1		
IT				1	1					
JP				2	3	1	1			
KR		5	12	10	9	14		12		
PA		4	4	2	1	1	1	1		
PL	24	20	7	3	3	3	2	1		
PT						1	2	1		
SL				1	1	1				
UK					1			1		
	24	35	40	46	43	48	60	43		

Licences

Table B.13 Annual revenue (Pounds sterling) by licence type

LICENCE	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
A	537775	485949	300154	191586	119854	125624	61008	63211		
B	22723027	20698011	20961399	20865023	14301237	17440342	10867548	12176224		
C	4028578	5077665	3286308	2904346	3558704	3305953	3473536	3915269		
E	3000	1000		12308	12303	163607	196725	118971		
F							74214	117243		
R						140664	431363	446767		
W			113412	169895	206682	413290	500679	842504		
X	377917	613764	572085	959803	1466992	2046655	2173149	2297557		
Y	939594	291531	285700	187767	199798	180825	164690	174748		
Z	391332	774666	841843	1222974	1207635	1335812	1920068	1586520		
	29001223	27942586	26360901	26513702	21073205	25152772	19862980	21739014		

Catch summary tables

Table C.1 Total catch (tonnes) by vessel type and year

VESSEL TYPE	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
CO	32109	74617	59069	46211	27896	17669	1151	4807	3012	1559
JI	119423	165920	195476	94743	160754	149557	144163	62874	62451	73225
LO						131	10	2855	1901	992
TR	164926	153815	172270	143561	115853	147601	106257	126265	176526	119119
	316458	394352	426814	284516	304503	314957	251580	196801	243889	194895

Table C.2 Total catch (tonnes) of all species and year

SPECIES	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
BAC	85	5095	2814	2778	2880	7055	6224	4043	8983	6901
BLU	47985	47583	43468	72326	50491	34078	24900	38698	38825	23513
ILL	142501	209529	224022	102417	174745	160016	145160	66996	63843	79803
KIN	748	1944	977	850	949	1952	1643	899	1960	1681
LOL	82547	53931	118720	82990	53817	83384	52279	65757	98308	61360
MAR	12	55	0	4	141	1	33	0	5798	111
PAT	16507	50872	16480	11900	6759	4070	3029	1414	1967	1648
RAY	426	1496	1749	1500	6923	8108	8523	5540	5288	3470
TOO	31	118	236	208	980	912	393	2963	2075	688
WHI	19307	12209	13313	7553	4499	14188	8506	10068	15411	13758
OTH	6309	11521	5036	1989	2317	1192	890	424	1431	1964
	316458	394353	426814	284516	304503	314957	251580	196801	243889	194895

Table C.3 Total catch (tonnes) by month and year

MONTH	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
January		1228	2475		5128	5217	3723	9150	7810	5213
February	23857	23343	30652	26620	19493	21028	6789	13271	28705	15823
March	68758	90916	89952	74890	88553	96826	39900	52894	46026	49773
April	79280	117569	131835	56338	83954	79745	79340	27659	49397	48954
May	40903	58466	73998	28475	32258	24303	51777	18914	21343	19526
June	3461	16659	11913	1017	112	107	437	2002	1696	1211
July	6309	13485	5265	2437	2538	223	1577	2172	2876	1418
August	32268	24721	24987	13196	14895	22415	20227	18151	25558	16451
September	30405	22355	26143	33653	21075	26933	16111	19569	25163	13559
October	14918	12170	14221	17836	13123	19839	11891	16105	14329	8315
November	8533	5314	8909	19119	9832	10736	11056	8805	11839	7406
December	7766	8127	6463	10934	13542	7585	8751	8111	9146	7245
	316458	394353	426814	284516	304503	314957	251580	196801	243889	194895

Catch summary tables

Table C.4 Total catch (tonnes) by gross registered tonnage (GRT) and year

GRT	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
<400		315	934	6631	9156	3674	3722	3947	3726	
400-599		19259	12931	8160	15599	15492	11686	15464	15325	
600-799		69869	32780	57480	64349	84391	41335	45631	50207	
800-999		63917	33681	52925	56327	38831	20417	15713	15223	
1000-1499		121857	76365	91356	86254	48461	44027	62732	33976	
1500-1999		34186	32057	20163	21591	14878	17588	27510	19932	
2000-2999		106642	86211	65101	56468	32070	30168	47090	29770	
≥3000		10771	9556	2686	5213	13783	27858	25803	26737	
	426814	284516	304503	314957	251580	196801	243889	194895		

Table C.5 Total catch (tonnes) by length overall (m) (LOA) and year

LOA	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
<45		5435	2950	2607	1214	1981	2393	2311	2465	
45-49		24020	14797	23950	35172	33438	29782	38590	40245	
50-54		42629	21973	29609	45879	51509	29182	29970	32315	
55-59		60687	23650	36395	43700	40097	16513	16960	17136	
60-64		40066	24567	31480	39233	27837	18825	23027	17915	
65-69		42987	28587	49846	39942	24176	17434	24455	13414	
70-79		106594	76034	69724	54580	34071	32456	52847	33446	
80-89		78190	73118	49293	40295	17226	12417	17440	6162	
≥90		26206	18840	11598	14941	21245	37799	38291	31796	
	426814	284516	304503	314957	251580	196801	243889	194895		

Table C.6 Total catch (tonnes) by brake horsepower (BHP) and year

BHP	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
<1000		17040	6456	8424	6687	9220	7671	10870	10223	
1000-1199		19433	14283	17426	22489	21988	12633	10735	11886	
1200-1399		44418	16726	31664	39777	52497	21576	22593	25765	
1400-1599		67693	30928	53351	48467	37790	19303	23864	24626	
1600-1799		55238	33084	52108	39793	26653	11461	8397	10309	
1800-1999		35875	31596	29454	51761	37741	42287	60242	32552	
2000-2499		62863	44779	30036	29338	7268	7702	8599	6085	
2500-2999		51720	43135	29817	29416	17187	23329	38315	26491	
3000-3999		61448	53445	48030	37964	23694	18683	26748	18362	
≥4000		11086	10085	4192	9266	17541	32157	33526	28595	
	426814	284516	304503	314957	251580	196801	243889	194895		

Catch summary tables

Table C.7 Total catch (tonnes) by fishing fleet and year

Fishing fleet	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
BG			13503	22369	21888	8981	2976			
BZ									585	
CL	361	1347	1150	1884		3145	1514	5223	9998	6637
ES	61109	84460	82345	65908	57605	87763	58143	67191	88899	40835
FK			781	5853	1470	1846	1978	5906	27121	31376
FR	1654							1945	7333	4580
GR	2172	2822	4960	3121						
HN					1712	2761	3656	2976	2772	850
IS										214
IT	5161	3656	10391	4547	2409	2923	2142	1186	218	
JP	75823	106322	125567	60028	93652	68325	39510	39916	25581	24949
KR	22363	39152	51133	32996	61614	72489	65228	42985	62668	73874
NL		1475	4587	3369						
NO				1384						319
PA					2425	4027	1060	598	460	706
PL	111757	103177	74039	64765	43878	32996	12442	11178	8736	3262
PT	543	9848	9143	6430	3268	1548	1809	2512	5121	1042
RU								39		
SL	31978	33229				1150	822	373		
TW	3537	8865	37529	10479	12590	27002	59853	13497	2315	1894
UK			11685	1383	1992		445	1255	2080	4357
UR								21		
	316458	394353	426814	284516	304503	314957	251580	196801	243889	194895

Salilota australis - Red cod

Table D.1 Total catch (tonnes) by vessel type and year

VESSEL TYPE	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
CO	51	39	44	504		87	159	11		
TR	2763	2740	2835	6551	6224	3955	8824	6890		
	2814	2778	2880	7055	6224	4043	8983	6901		

Table D.2 Total catch (tonnes) by month and year

MONTH	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
January			50	76	175	217	33	138		
February	15	125	229	442	302	273	101	108		
March	4	422	478	334	240	189	354	1056		
April	153	537	303	327	414	288	419	996		
May	22	414	33	31	561	110	509	289		
June	9	62	7	24	144	52	44	116		
July	340	237	225	26	123	80	402	179		
August	530	197	307	1046	605	252	1008	552		
September	1042	261	235	1568	772	645	2375	959		
October	697	296	599	2056	1300	1317	2180	2038		
November	2	146	330	1116	1291	468	801	382		
December		81	85	10	297	151	757	87		
	2814	2778	2880	7055	6224	4043	8983	6901		

Table D.3 Total catch (tonnes) by fishing fleet and year

Fishing fleet	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
BG	4									
CL		1		14	66	9	2	16		
ES	2441	2460	2293	4168	4084	3061	5942	3484		
FK	3	4	56	32	69	100	1508	2031		
FR					16	21	31			
GR	56	10								
HN			125	394	374	107	106	189		
IT	5	8	14	80	304	176	14			
JP	81	54	6	11	87	52	86	65		
KR	86	45	253	1462	843	417	1026	834		
NL	0									
NO	3									
PA			108	658	101	8	90	93		
PL	34		1	1	3			0		
PT	18	190	21	36	21	40	173	138		
SL				199	131	51				
UK	85	3	3		140	6	16	18		
	2814	2778	2880	7055	6224	4043	8983	6901		

Salilota australis - Red cod

Table D.4 Total catch (tonnes) by gross registered tonnage (GRT) and year

GRT	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<400	66		299	1013	356	111	203	183		
400-599	15	237	100	444	797	242	492	211		
600-799	35	61	127	517	792	628	761	485		
800-999	736	475	650	1370	923	801	1925	1222		
1000-1499	1119	665	621	1153	1900	1698	2393	2150		
1500-3999	431	1181	690	2090	799	271	1717	1067		
2000-2999	348	127	387	456	570	239	1407	1518		
≥3000	63	33	6	11	87	52	86	65		
	2814	2778	2880	7055	6224	4043	8983	6901		

Table D.5 Total catch (tonnes) by length overall (m) (LOA) and year

LOA	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<45	1	145	145	195	415	129	42			
45-49	477	396	271	426	632	961	1812	894		
50-54	245	286	703	1964	1792	877	1115	1279		
55-59	126	60	283	1020	590	230	984	967		
60-64	639	204	98	877	280	321	1078	492		
65-69	267	520	212	473	467	211	1138	510		
70-79	720	992	905	1681	1658	1136	2561	2398		
80-89	213	139	204	376	264	107	132	231		
≥90	125	37	58	42	127	69	121	130		
	2814	2778	2880	7055	6224	4043	8983	6901		

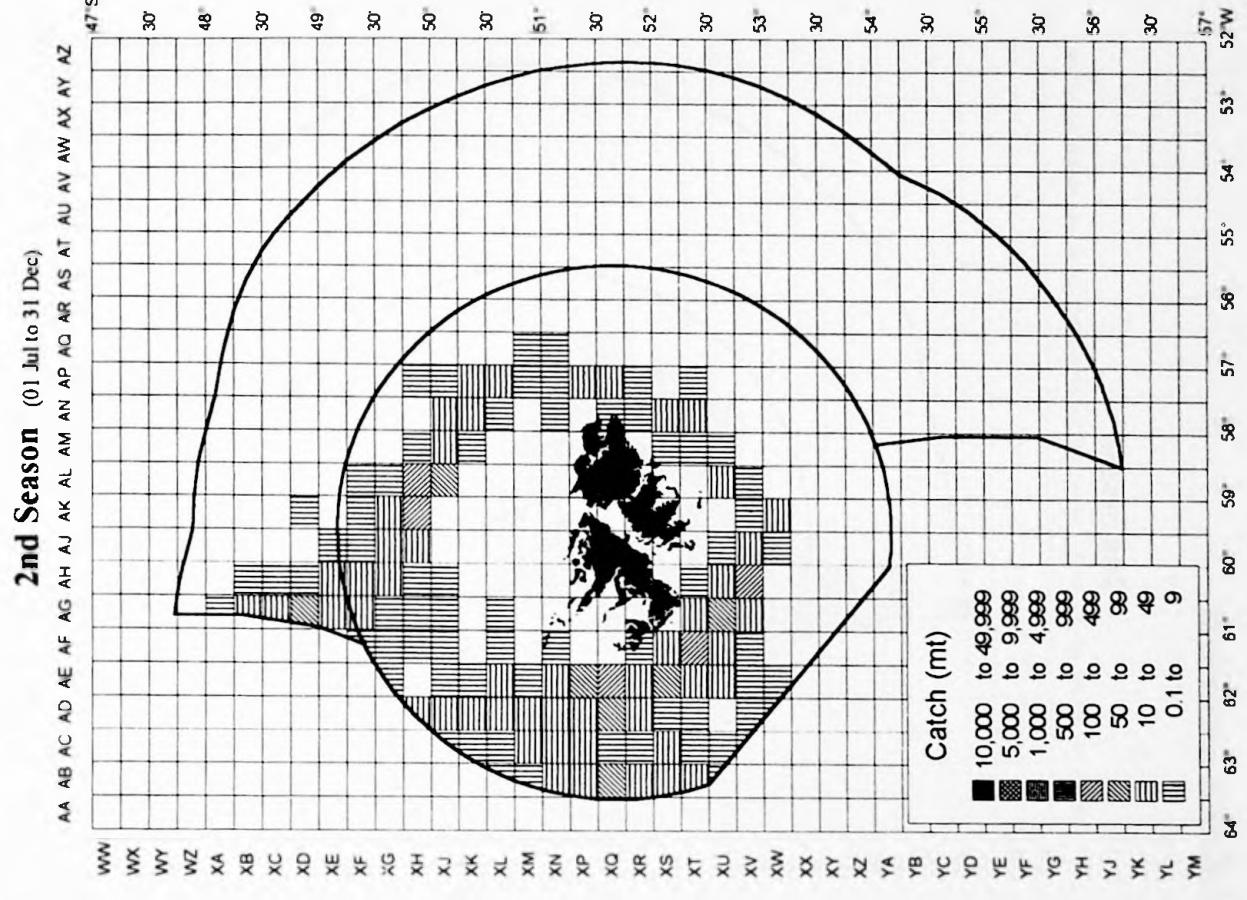
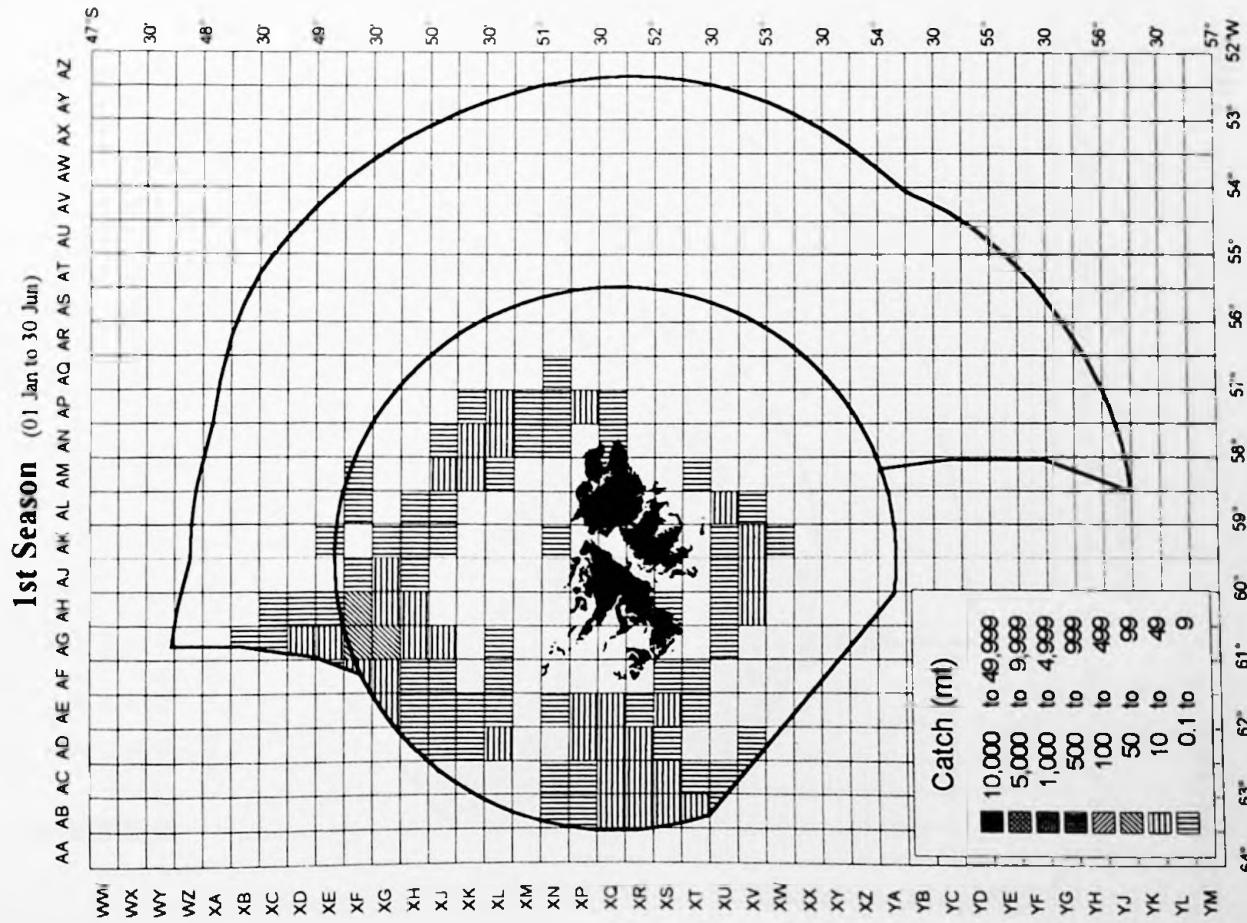
Table D.6 Total catch (tonnes) by brake horsepower (BHP) and year

BHP	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<1000	2	65	65		140	7	2	4		
1000-1199	183	102	367	525	452	466	535	248		
1200-1399	2	85	25							
1400-1599	530	507	260	411	1007	717	1457	761		
1600-1799	19	115	14	2	199	179	195	118		
1800-1999	1209	959	973	2883	2216	1773	3669	2851		
2000-2499	184	343	104	1491	509	266	1144	701		
2500-2999	343	411	784	1277	1206	418	1733	1803		
3000-3999	251	162	135	80	319	106	68	255		
≥4000	89	29	153	387	176	111	181	159		
	2814	2778	2880	7055	6224	4043	8983	6901		

1994

Salilota australis

FICZ and FOCZ



Catch (mt) by grid square

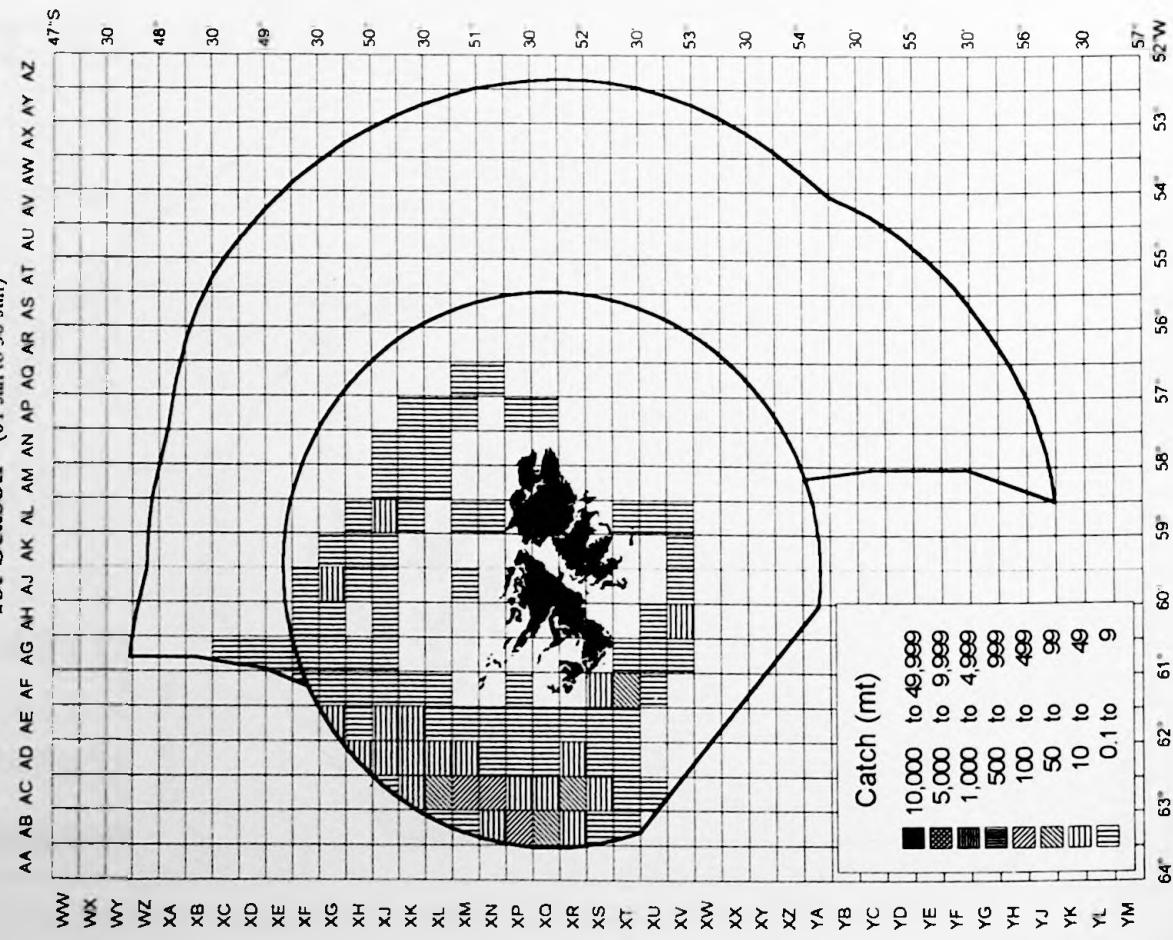
***Salilota australis* - Red cod**

Salilota australis - Red cod

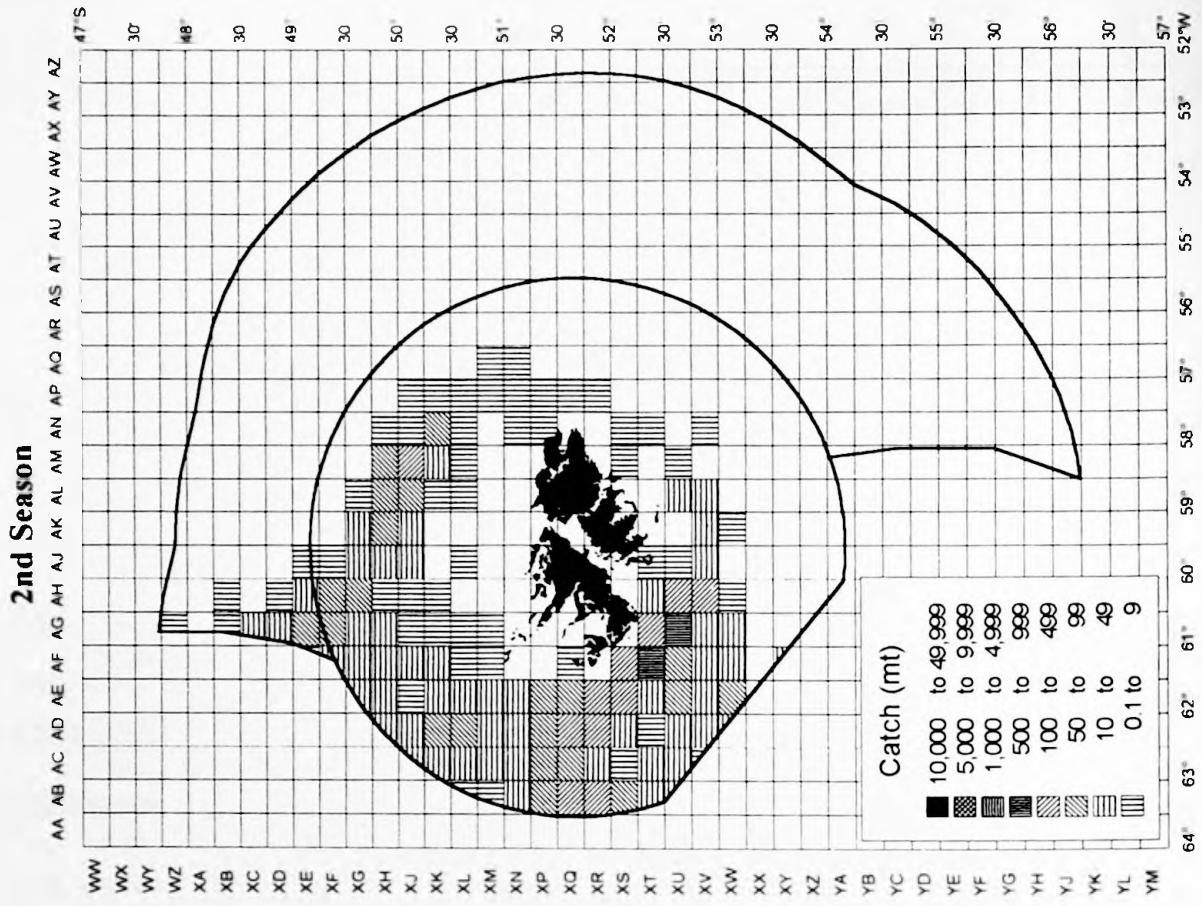
FICZ and FOCZ

1995

1st Season (01 Jan to 30 Jun)



2nd Season

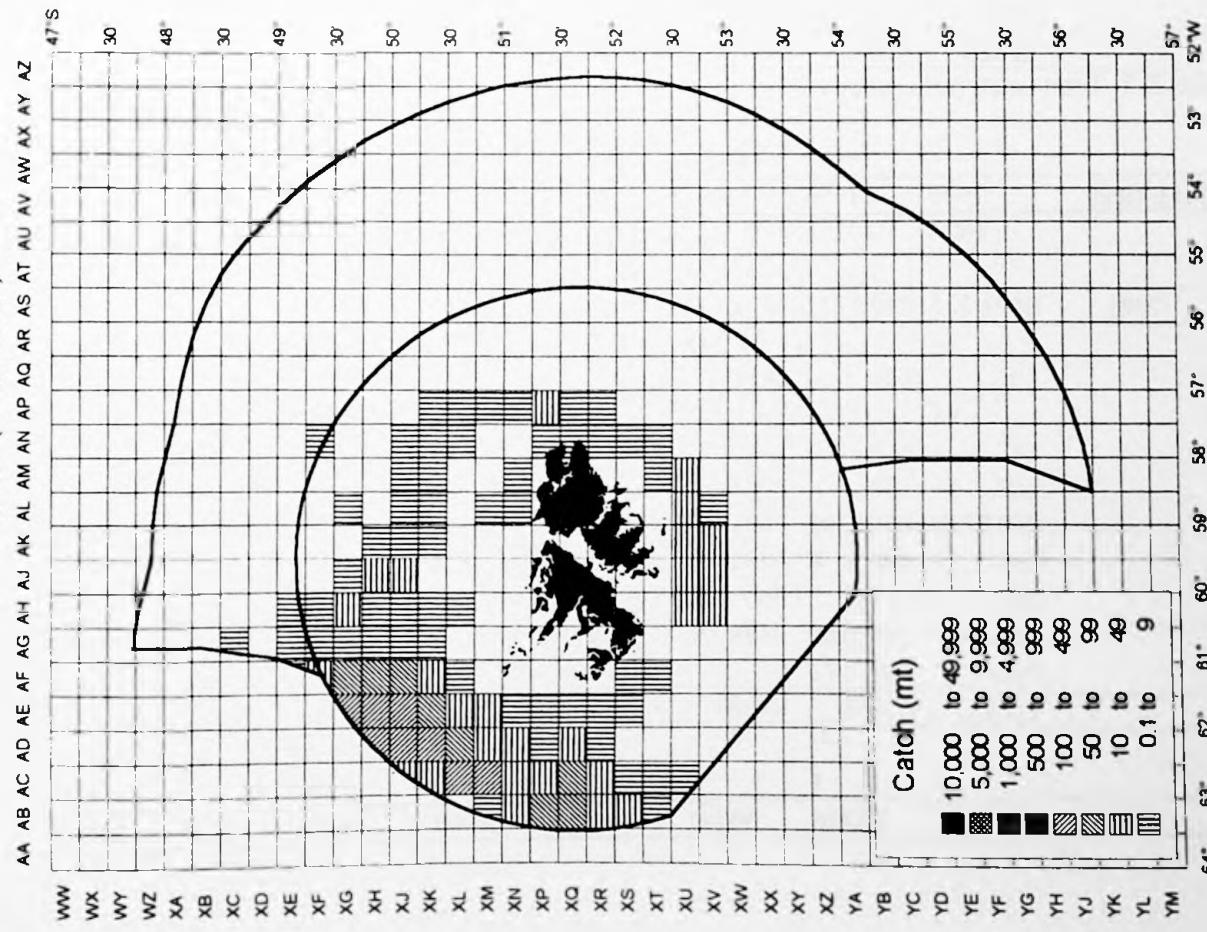


1996

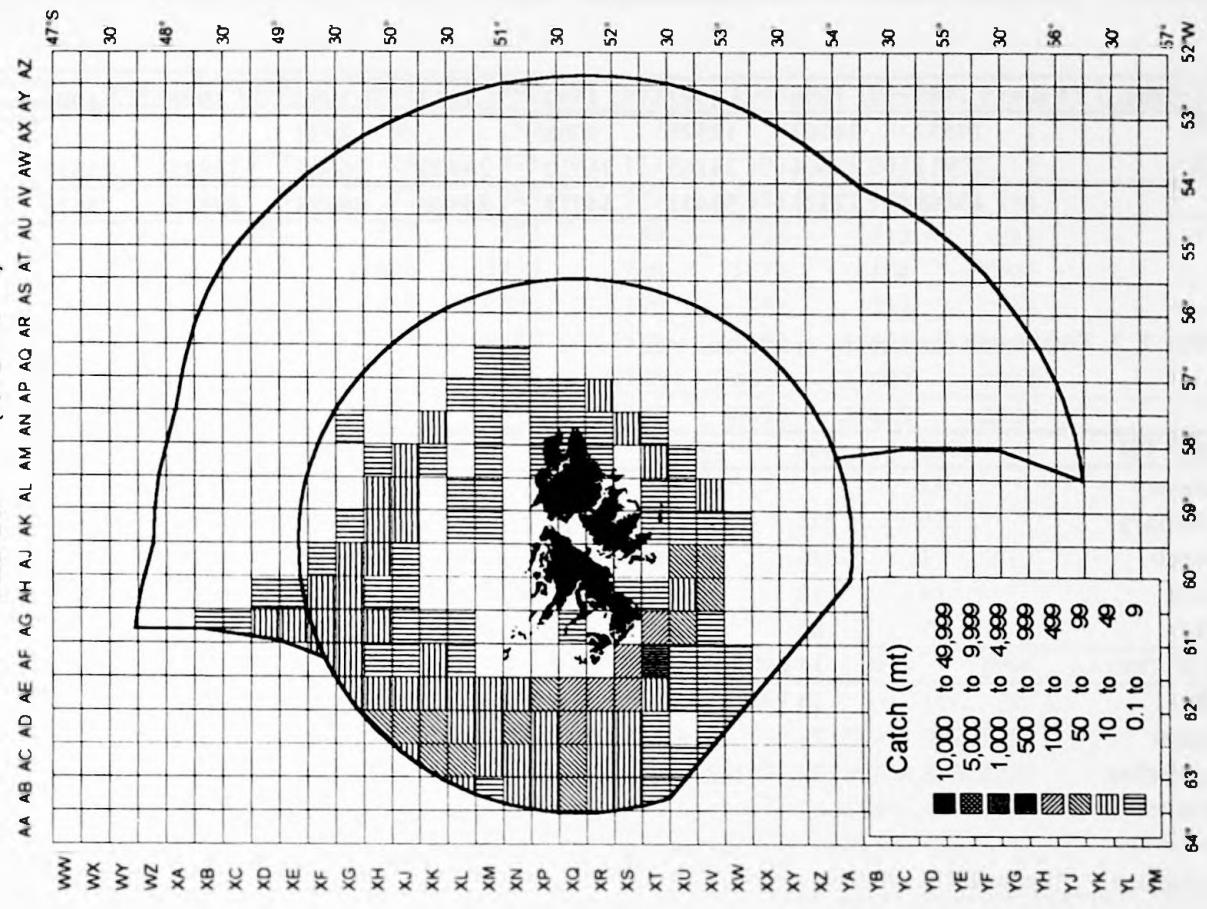
Salilota australis

FICZ and FOCZ

1st Season (01 Jan to 30 Jun)



2nd Season (01 Jul to 31 Dec)



Catch (mt) by grid square

Salilota australis - Red cod

Micromesistius australis - Southern blue whiting

Table E.1 Total catch (tonnes) by vessel type and year

VESSEL TYPE	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
CO	19557	34663	12328	3068		2032				
TR	23911	37664	38163	31010	24900	36665	38825	23513		
	43468	72326	50491	34078	24900	38698	38825	23513		

Table E.2 Total catch (tonnes) by month and year

MONTH	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
January	43		4632	4632	2997	7031	7303	4731		
February	59	231	4716	4029	2150	2179	3578	3690		
March	1	546	687	1908	876	71	1100	664		
April	19	618	527	1343	391	45	210	163		
May	3	86	27	14	345	2954	65	21		
June		14		1	1	286	2	14		
July	351	18	20	0	1	4	1	6		
August	10960	5173	1828	641	844	860	1915	665		
September	15678	26202	14801	7487	3548	4359	5161	1875		
October	10473	12663	5566	3684	1051	7401	3894	603		
November	4413	18131	5296	2991	5131	6760	8997	4831		
December	1468	8643	12391	7349	7563	6747	6599	6250		
	43468	72326	50491	34078	24900	38698	38825	23513		

Table E.3 Total catch (tonnes) by fishing fleet and year

Fishing fleet	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
BG	6824	19292	20357	8938	2976					
CL					0		4623	4188		
ES	335	2722	5973	9862	4553	5259	10711	2471		
FK			148	0	74	279	1600	1066		
FR						23	0	67		
GR	44	0								
HN			49	43	19	7		3		
IT				149	302	345	56			
JP	3710	42			8796	22047	12864	12493		
KR	1	8	1	122	6	43	9	10		
PA			40	24		1				
PL	32546	50189	23920	14911	8169	10537	8736	3098		
PT		72	3	1		135	196	10		
RU						19				
SL				29	2					
UK	8	1	0		2	4	30	108		
	43468	72326	50491	34078	24900	38698	38825	23513		

Micromesistius australis - Southern blue whiting

Table E.4 Total catch (tonnes) by gross registered tonnage (GRT) and year

GRT	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<400			86	90	2	0		1		
400-599	0	173	54	575	132	303	241	3		
600-799		8	75	349	327	471	996	396		
800-999	12	862	157	353	80	176	1712	221		
1000-1499	8221	20877	11430	3437	1766	3537	4164	1897		
1500-1999	1	1192	2319	4385	1199	852	3734	553		
2000-2999	31535	49165	36371	24889	12599	11312	10492	1040		
≥3000	3700	48			8796	22047	17487	19402		
	43468	72326	50491	34078	24900	38698	38825	23513		

Table E.5 Total catch (tonnes) by length overall (m) (LOA) and year

LOA	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<45		2	114	254	47	288				
45-49	10	662	139	570	134	295	2043	255		
50-54	1	364	606	471	688	1071	288	221		
55-59	3	107	209	524	378	671	1806	1331		
60-64	1	1	59	656	494	671	1740	312		
65-69	3	430	576	860	112	670	1987	205		
70-79	8221	21725	13718	6127	2562	2109	4410	1262		
80-89	28565	47659	31852	22643	8393	5737	4438	390		
≥90	6663	1377	3216	1974	12092	27187	22114	19537		
	43468	72326	50491	34078	24900	38698	38825	23513		

Table E.6 Total catch (tonnes) by brake horsepower (BHP) and year

BHP	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<1000			45		2	4				
1000-1199		359	92	782	162	188	984	301		
1200-1399	0	124	9							
1400-1599	2	557	139	390	388	547	1588	212		
1600-1799		7	35		224	378	873	301		
1800-1999	28	1189	1890	4581	2412	3847	6748	1865		
2000-2499	19168	28626	7105	2286	6	2094	388	10		
2500-2999	7687	14814	10902	6406	997	566	1715	790		
3000-3999	16189	26602	29836	17097	11544	8958	9021	3351		
≥4000	394	48	437	2536	9165	22116	17509	16684		
	43468	72326	50491	34078	24900	38698	38825	23513		

Micromesistius australis - Southern blue whiting

Table E.7 Total catch (tonnes) of combination vessels by gross registered tonnage (GRT) and year

GRT	1989	1990	1991	1992	1994	1995	1996	1997	1998
<400					0				
400-599				3					
1000-1499	8064	20493	10201	1817					
2000-2999	11474	14164	2128	1248		2032			
≥3000	20	6							
	19557	34663	12328	3068		2032			

Table E.8 Total catch (tonnes) of combination vessels by length overall (m) (LOA) and year

LOA	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
50-54			4	27						
55-59					0					
70-79	8064	20495	10196	1794						
80-89	11473	14168	2128	1248		2032				
≥90	20									
	19557	34663	12328	3068		2032				

Table E.9 Total catch (tonnes) of combination vessels by brake horsepower (BHP) and year

BHP	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
2000-2499	15991	23294	6684	2155		2032				
2500-2999	3543	11361	5645	913		0				
3000-3999	3	2								
≥4000	20	6								
	19557	34663	12328	3068		2032				

Table E.10 Total catch (tonnes) of trawlers by gross registered tonnage (GRT) and year

GRT	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<400			86	90	2			1		
400-599	0	173	54	575	132	303	241	3		
600-799		8	75	349	327	471	996	396		
800-999	12	862	157	349	80	176	1712	221		
1000-1499	157	384	1229	1620	1766	3537	4164	1897		
1500-1999	1	1192	2319	4385	1199	852	3734	553		
2000-2999	20062	35001	34243	23641	12599	9280	10492	1040		
≥3000	3680	42			8796	22047	17487	19402		
	23911	37664	38163	31010	24900	36665	38825	23513		

Micromesistius australis - Southern blue whiting

Table E.11 Total catch (tonnes) of trawlers by length overall (m) (LOA) and year

LOA	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<45	0	19	3		259	151	259			
45-49	614	6	67	58		699	600	408		
50-54			172	20	20	402	325	124		
55-59		2	0	50	1	497	603	247		
60-64	19	40	87	84	38	366	452	158		
65-69	93	499	335	15	326	403	464	581		
70-79	85	654	490	813	243	725	1983	319		
80-89	2069	454	1027	873	23		0	183		
≥90	883	981	796	1081	82	12	1946	3187		
	3764	2655	2977	2994	992	3255	6632	5206		

Table E.12 Total catch (tonnes) of trawlers by brake horsepower (BHP) and year

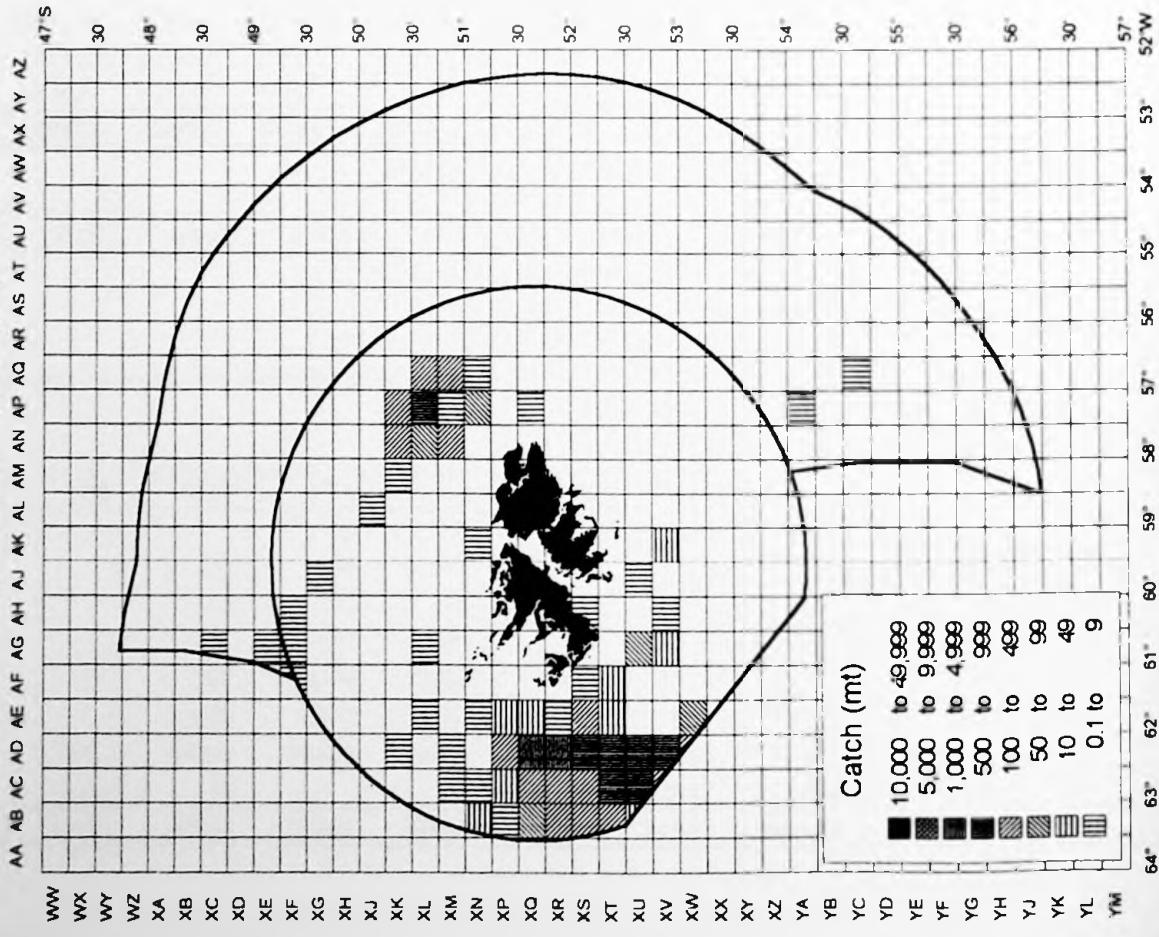
BHP	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<1000			45		2	4				
1000-1199		359	92	782	162	188	984	301		
1200-1399	0	124	9							
1400-1599	2	557	139	390	388	547	1588	212		
1600-1799		7	35		224	378	873	301		
1800-1999	28	1189	1890	4581	2412	3847	6748	1865		
2000-2499	3177	5332	421	131	6	62	388	10		
2500-2999	4144	3453	5258	5492	997	566	1715	790		
3000-3999	16186	26600	29836	17097	11544	8958	9021	3351		
≥4000	374	42	437	2536	9165	22116	17509	16684		
	23911	37664	38163	31010	24900	36665	38825	23513		

1994

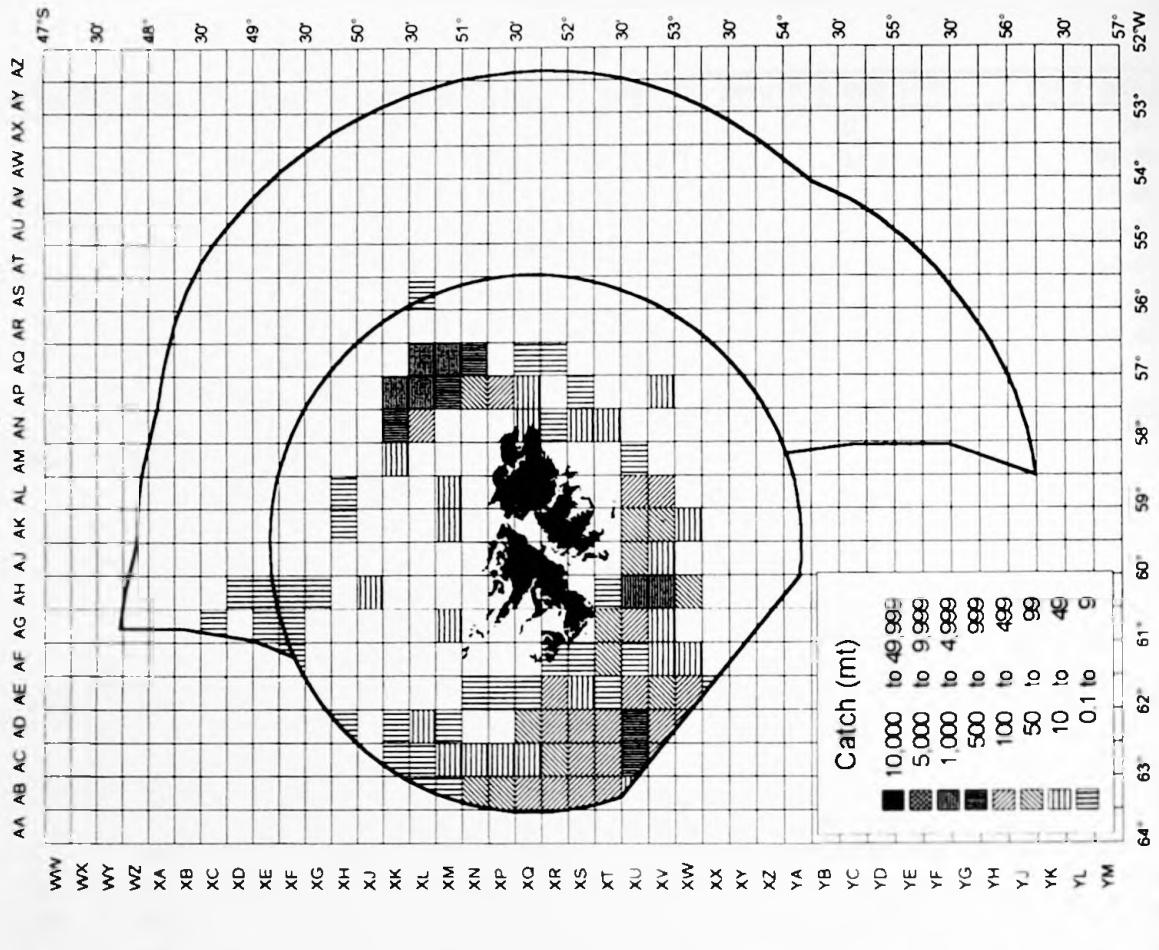
Micromesistius australis

Catch (mt) by grid square

1st Season (01 Jun to 30 Jun)



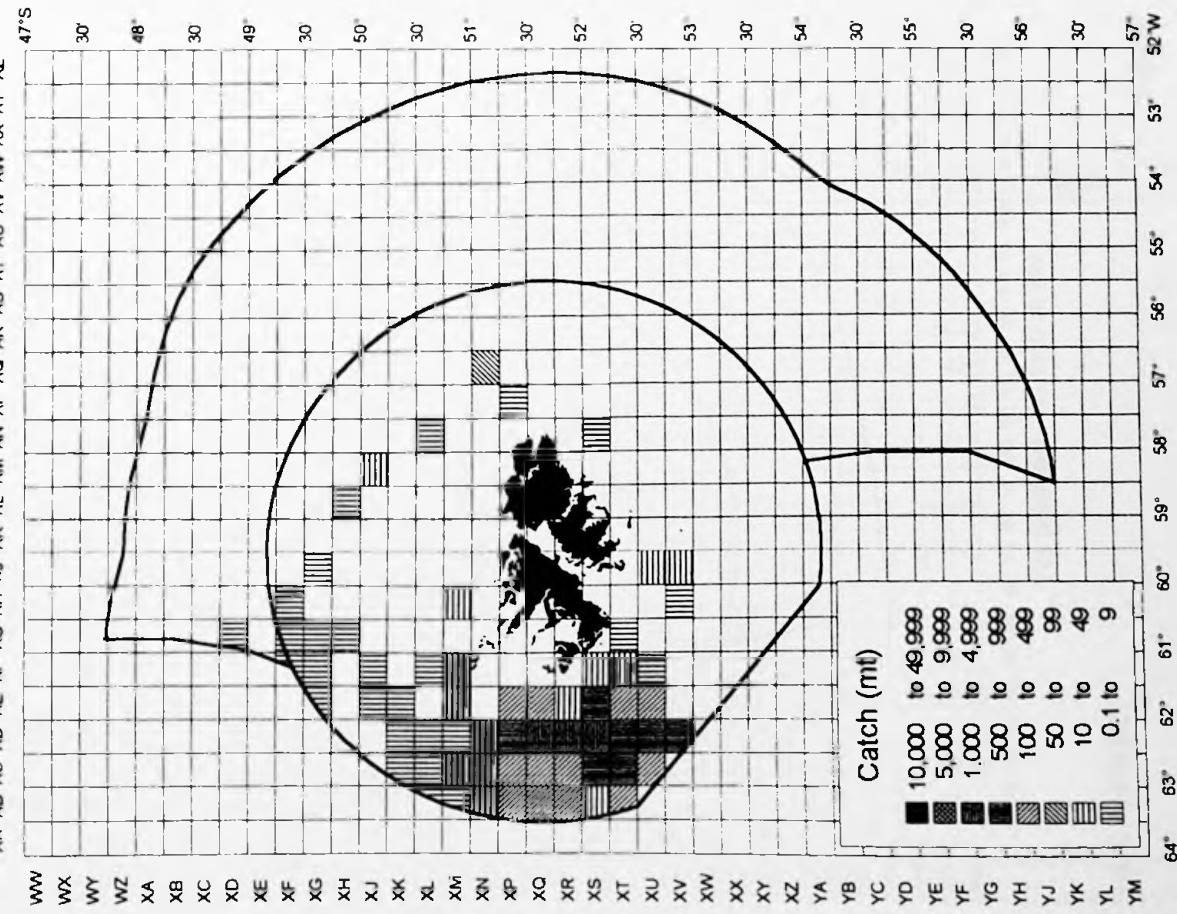
2nd Season (01 Jul to 31 Dec)



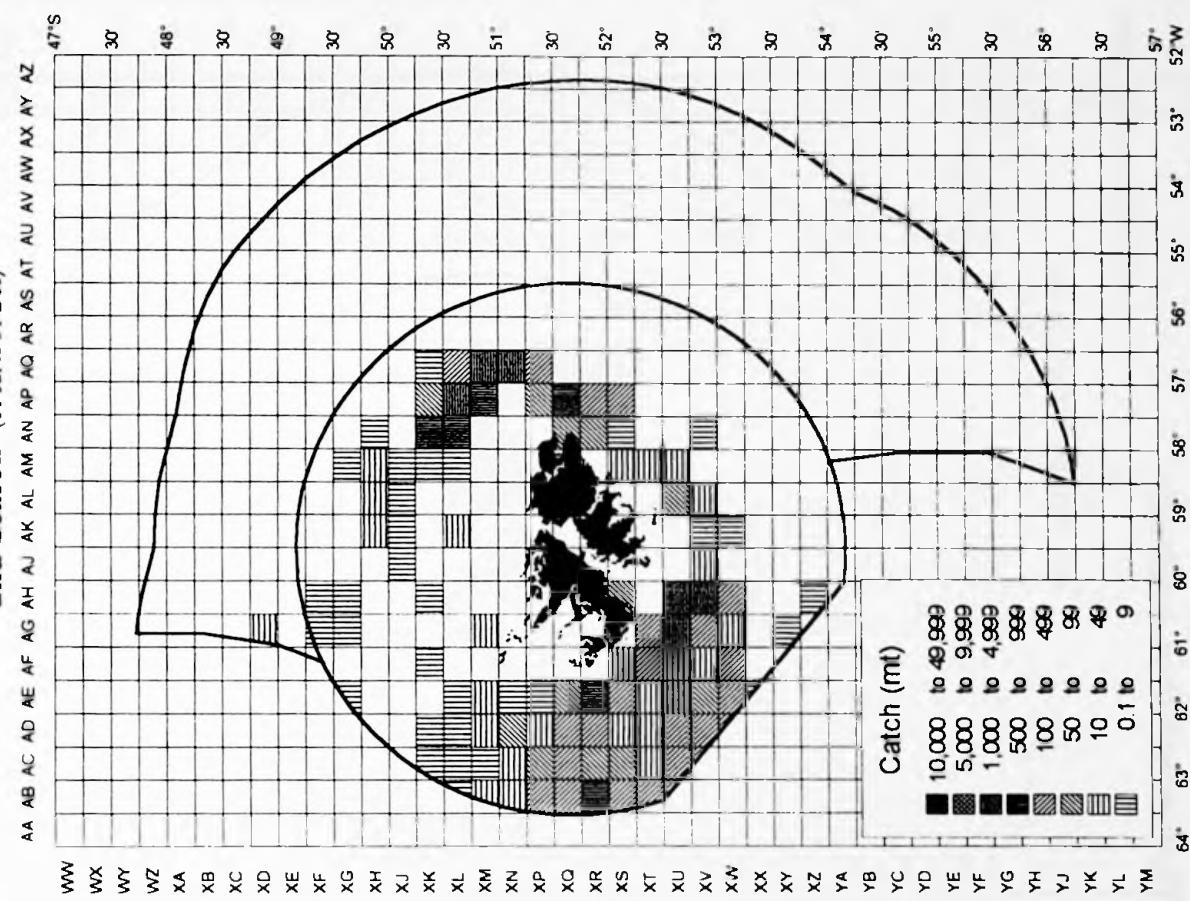
1995 *Micromesistius australis*

Catch (mt) by grid square

1st Season (01 Jan to 30 Jun)



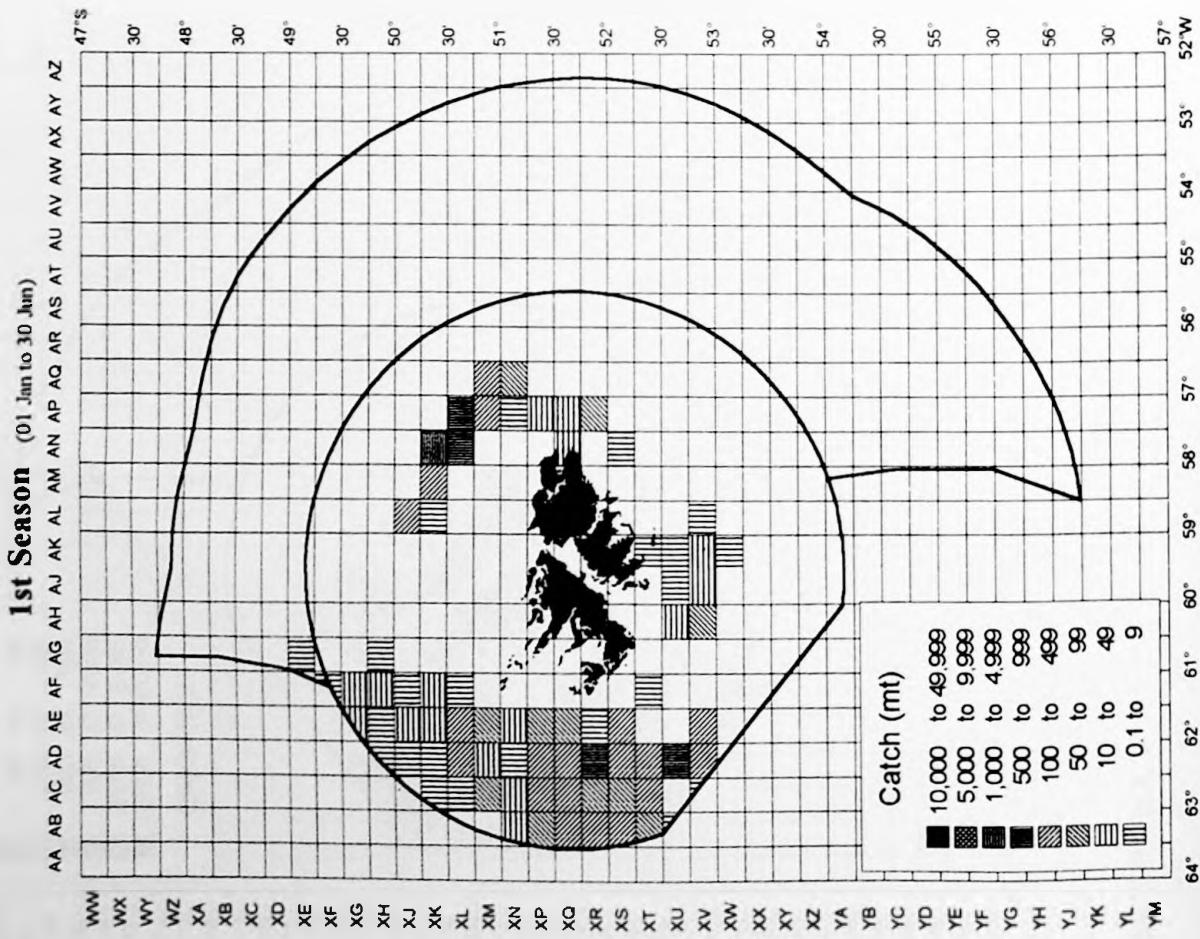
2nd Season (01 Jul to 31 Dec)



1996

Micromesistius australis

Catch (mt) by grid square



Illex argentinus - Illex squid

Table F.1 Total catch (tonnes) by vessel type and year

VESSEL TYPE	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
CO	24783	5019	11153	7465	5	868	557	1479		
JI	195476	94743	160616	149557	144163	62874	56653	73117		
TR	3764	2655	2977	2994	992	3255	6632	5206		
	224022	102417	174745	160016	145160	66996	63843	79803		

Table F.2 Total catch (tonnes) by month and year

MONTH	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
January						0	2			
February	4	67	1360	50	18	97	6749	5183		
March	57138	48860	75881	79930	36330	44034	24239	37712		
April	100261	36031	72602	67099	64861	16486	29132	30589		
May	58065	17459	24898	12935	43942	6374	3720	6203		
June	8555	0	3	1	8	4	0	116		
July			0	0	0					
August			0							
September						1				
October	0					1				
December							1			
	224022	102417	174745	160016	145160	66996	63843	79803		

Table F.3 Total catch (tonnes) by fishing fleet and year

Fishing fleet	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
BG		342								
BZ							528			
CL	6	1		10	2					
ES	2115	1232	1170	947	776	3021	3889	1621		
FK		6	128				350	189		
FR					106		23	28		
HN					556	1089	679			
IT	5		56	179	124	110	110			
JP	114551	54922	91023	63260	25727	12079	6324	8467		
KR	49855	31953	58387	61346	58027	37076	49712	67421		
NL		0								
NO		2								
PL	19945	3438	11218	7250	90					
PT	14	24	132	24	4	4	176	183		
RU						1				
TW	37529	10479	12573	27002	59853	13497	2051	1894		
UK	3	19	58							
UR					12					
	224022	102417	174745	160016	145160	66996	63843	79803		

Illex argentinus - Illex squid

Table F.4 Total catch (tonnes) by gross registered tonnage (GRT) and year

GRT	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<400		934	1823	505	447	1568	1012	1479		
400-599	10899	5964	6424	11086	11434	6736	10526	14250		
600-799	67233	31955	56061	57803	75167	34071	34912	44679		
800-999	51596	27007	45736	39631	31942	9806	5439	6731		
1000-1499	69746	30151	57159	44570	25940	14300	8364	8812		
1500-1999	4851	1180	502	519	55	500	1292	632		
2000-2999	15393	3619	6902	5756	175	3	352	34		
≥3000	4304	1606	138	147		12	1946	3185		
	224022	102417	174745	160016	145160	66996	63843	79803		

Table F.5 Total catch (tonnes) by length overall (m) (LOA) and year

LOA	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<45	1350	19	1179		840	151	1974	1933		
45-49	19673	11420	18764	22266	27758	19468	26651	36066		
50-54	34393	17300	19778	22794	35837	14106	12193	19062		
55-59	50355	16948	31110	31501	32842	11162	8481	7390		
60-64	30015	14738	29258	25656	20621	9047	2966	4197		
65-69	33942	20380	36613	31743	17910	8954	5151	4357		
70-79	37394	17343	31021	20208	9242	4095	4481	3429		
80-89	10388	3289	5892	4768	29		0	183		
≥90	6513	981	1131	1081	82	12	1946	3187		
	224022	102417	174745	160016	145160	66996	63843	79803		

Table F.6 Total catch (tonnes) by brake horsepower (BHP) and year

BHP	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<1000	12774	5356	7998	6681	8775	4183	6049	7973		
1000-1199	10682	9534	14946	12625	15516	8197	7238	9819		
1200-1399	44049	14766	31031	39673	52497	21576	19663	25227		
1400-1599	62403	28395	46640	39997	33003	15704	16783	22157		
1600-1799	50662	30155	48922	37834	23550	9868	5278	6506		
1800-1999	9974	6207	9060	9253	8394	5528	4009	1764		
2000-2499	17713	3200	11192	10693	3128	1319	2182	2100		
2500-2999	5748	1753	2941	1996	179	606	694	887		
3000-3999	5715	1445	1831	1073	112	14	0	185		
≥4000	4304	1606	184	191	8		1946	3185		
	224022	102417	174745	160016	145160	66996	63843	79803		

Illex argentinus - Illex squid

Table F.7 Total catch (tonnes) of combination vessels by gross registered tonnage (GRT) and year

GRT	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<400						868	394	1479		
400-599	1854									
800-999			1229	1903			21			
1000-1499	6350	1180	5059	1667			142			
1500-1999	1164	468								
2000-2999	11112	2655	4865	3895	5					
≥3000	4304	717								
	24783	5019	11153	7465	5	868	557	1479		

Table F.8 Total catch (tonnes) of combination vessels by length overall (m) (LOA) and year

LOA	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
50-54	1854					368	268	653		
55-59			1229	1903		499	290	826		
70-79	10307	2184	5059	1667						
80-89	8318	2835	4865	3895	5					
≥90	4304									
	24783	5019	11153	7465	5	868	557	1479		

Table F.9 Total catch (tonnes) of combination vessels by brake horsepower (BHP) and year

BHP	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
1800-1999						368	268	653		
2000-2499	12844	2601	8653	6447	5		142			
2500-2999	4147	698	2500	1018		499	147	826		
3000-3999	3489	1004								
≥4000	4304	717								
	24783	5019	11153	7465	5	868	557	1479		

Table F.10 Total catch (tonnes) of jiggers by gross registered tonnage (GRT) and year

GRT	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<400		934	1823	505	447	700	555			
400-599	8431	5945	6423	11086	11175	6431	10267	14019		
600-799	67233	31955	56059	57775	75164	33322	34612	44506		
800-999	51595	26982	44440	37686	31942	9558	4855	6582		
1000-1499	63307	28928	51535	42504	25434	12862	6364	8010		
1500-1999	3583									
2000-2999	1327		335							
	195476	94743	160616	149557	144163	62874	56653	73117		

Illex argentinus - Illex squid

Table F.11 Total catch (tonnes) of jiggers by length overall (m) (LOA) and year

LOA	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<45	1350		1176		582		1714	1933		
45-49	19059	11414	18697	22208	27758	18769	26050	35658		
50-54	32539	17300	19606	22774	35817	13336	11601	18286		
55-59	50355	16946	29881	29547	32841	10166	7589	6317		
60-64	29995	14698	29171	25572	20584	8681	2515	4039		
65-69	33849	19881	36278	31727	17584	8552	4687	3776		
70-79	27002	14505	25472	17728	8999	3371	2498	3110		
≥90	1327		335							
	195476	94743	160616	149557	144163	62874	56653	73117		

Table F.12 Total catch (tonnes) of jiggers by brake horsepower (BHP) and year

BHP	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<1000	12774	5356	7997	6681	8775	4183	6049	7973		
1000-1199	10681	9515	14943	12586	15516	7360	6976	9588		
1200-1399	43436	14766	31031	39673	52497	21576	19663	25227		
1400-1599	62402	28389	46516	39966	32741	15347	16156	21918		
1600-1799	50642	30146	48813	37834	23545	9764	5146	6424		
1800-1999	9968	6008	8697	8609	7967	3325	720			
2000-2400	2719	562	2283	4206	3122	1318	1943	1988		
2500-2999	1527									
3000-3999	1327		335							
	195476	94743	160616	149557	144163	62874	56653	73117		

Table F.13 Total catch (tonnes) of trawlers by gross registered tonnage (GRT) and year

GRT	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<400							64			
400-599	614	19	1		259	305	259	231		
600-799			2	28	3	749	300	173		
800-999	1	25	66	41		247	563	148		
1000-1499	89	44	565	399	506	1438	1858	802		
1500-1999	105	712	502	519	55	500	1292	632		
2000-2999	2955	965	1702	1861	169	3	352	34		
≥3000		890	138	147		12	1946	3185		
	3764	2655	2977	2994	992	3255	6632	5206		

Illex argentinus - Illex squid

Table F.14 Total catch (tonnes) of trawlers by length overall (m) (LOA) and year

LOA	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<45	0	19	3		259	151	259			
45-49	614	6	67	58		699	600	408		
50-54			172	20	20	402	325	124		
55-59		2	0	50	1	497	603	247		
60-64	19	40	87	84	38	366	452	158		
65-69	93	499	335	15	326	403	464	581		
70-79	85	654	490	813	243	725	1983	319		
80-89	2069	454	1027	873	23		0	183		
≥90	883	981	796	1081	82	12	1946	3187		
	3764	2655	2977	2994	992	3255	6632	5206		

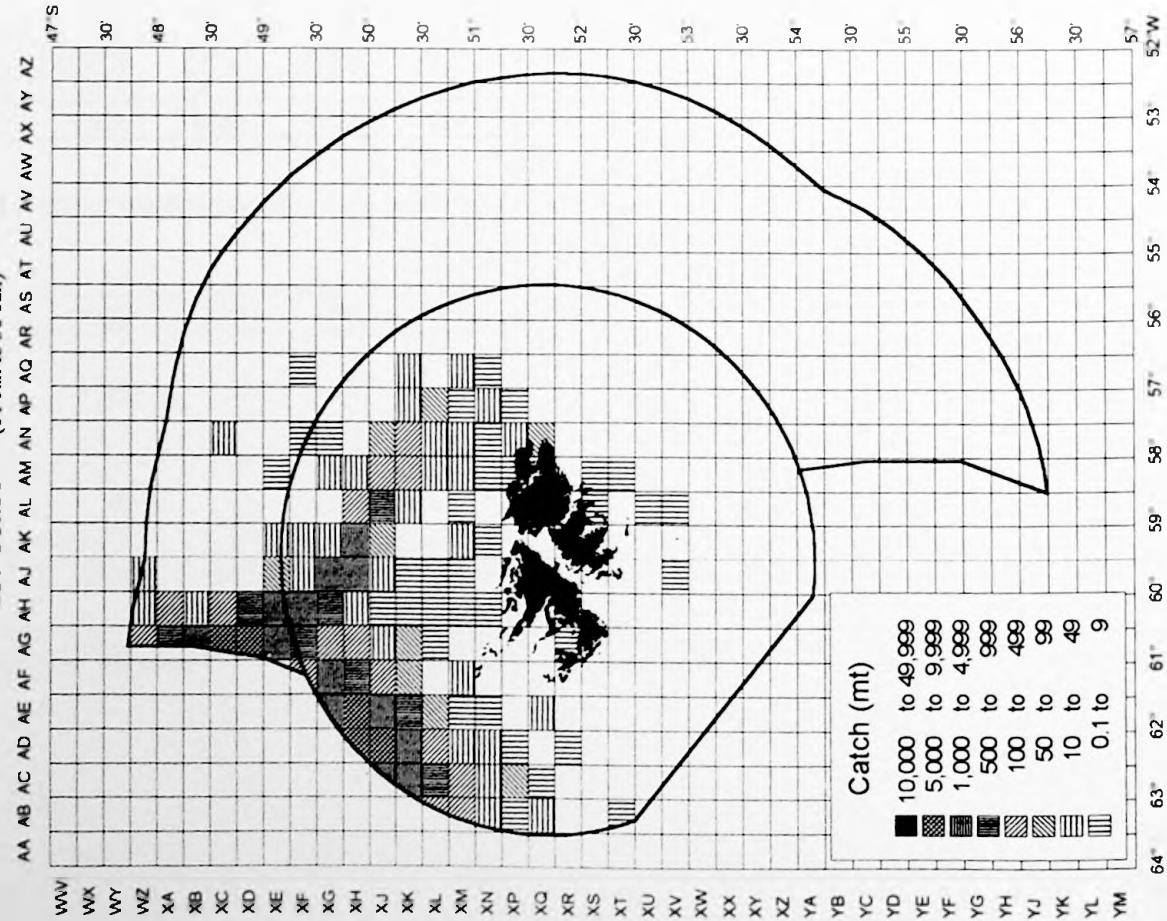
Table F.15 Total catch (tonnes) of trawlers by brake horsepower (BHP) and year

BHP	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<1000			1							
1000-1199	1	19	3	38		837	262	231		
1200-1399	613									
1400-1599	0	6	124	30	262	357	628	239		
1600-1799	21	8	109		5	104	132	82		
1800-1999	6	199	364	644	427	1835	3022	1111		
2000-2499	2150	37	256	39		1	96	112		
2500-2999	74	1055	441	978	179	106	547	61		
3000-3999	899	441	1496	1073	112	14	0	185		
≥4000		890	184	191	8		1946	3185		
	3764	2655	2977	2994	992	3255	6632	5206		

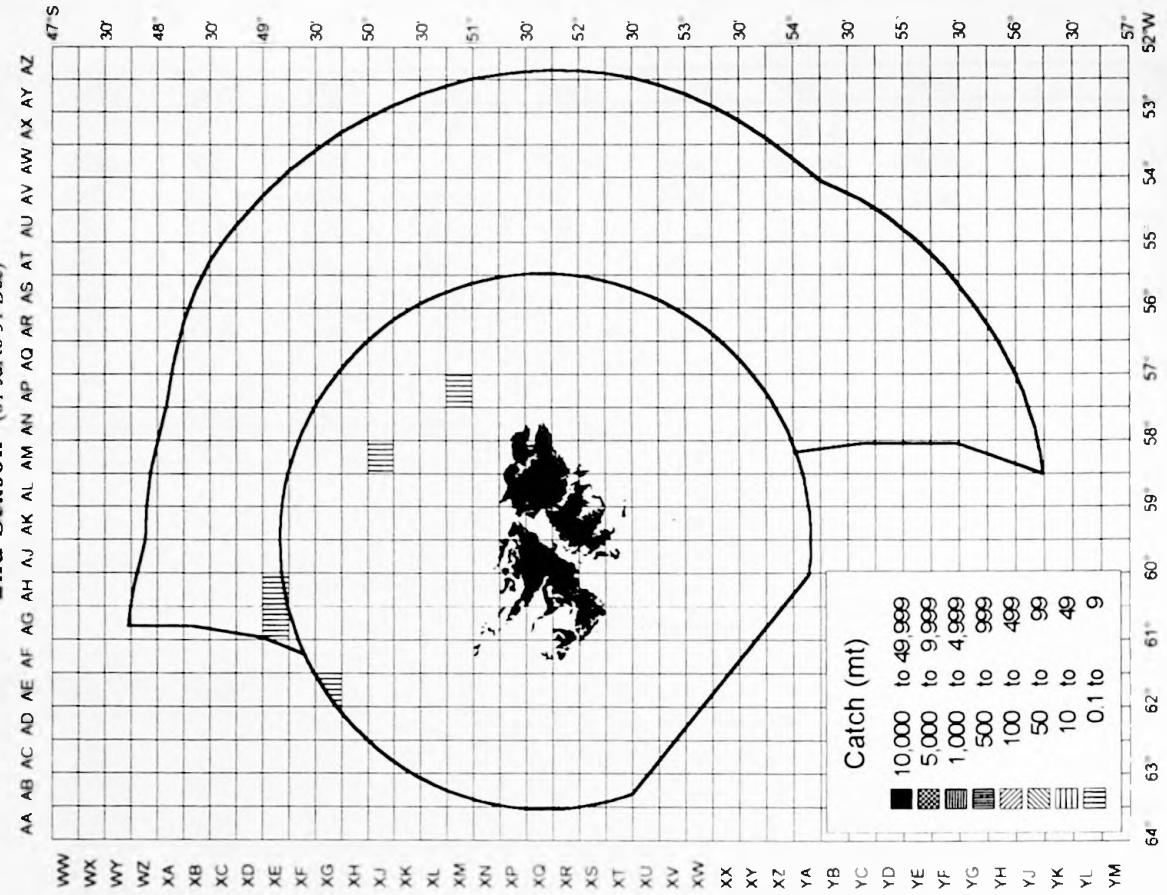
1994

Illex argentinus

1st Season (01 Jan to 30 Jun)



2nd Season (01 Jul to 31 Dec)

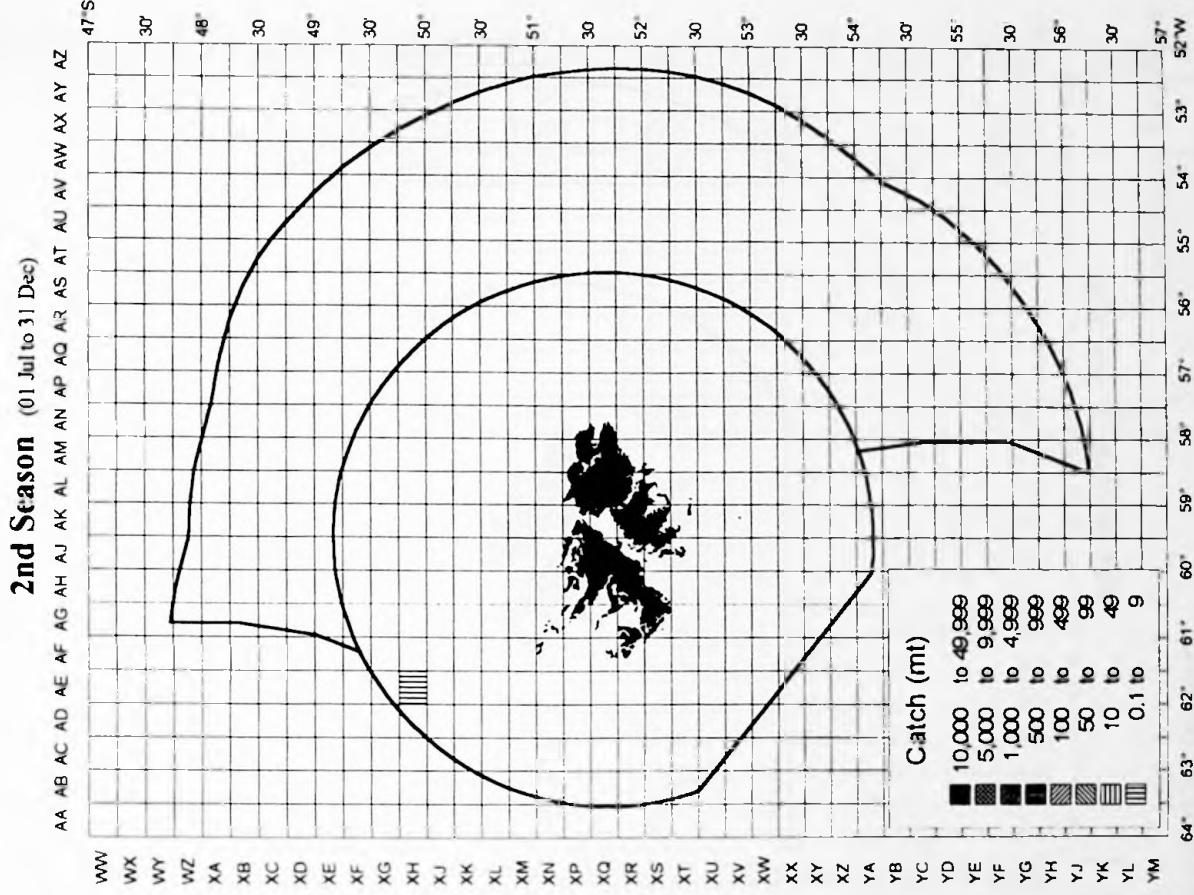
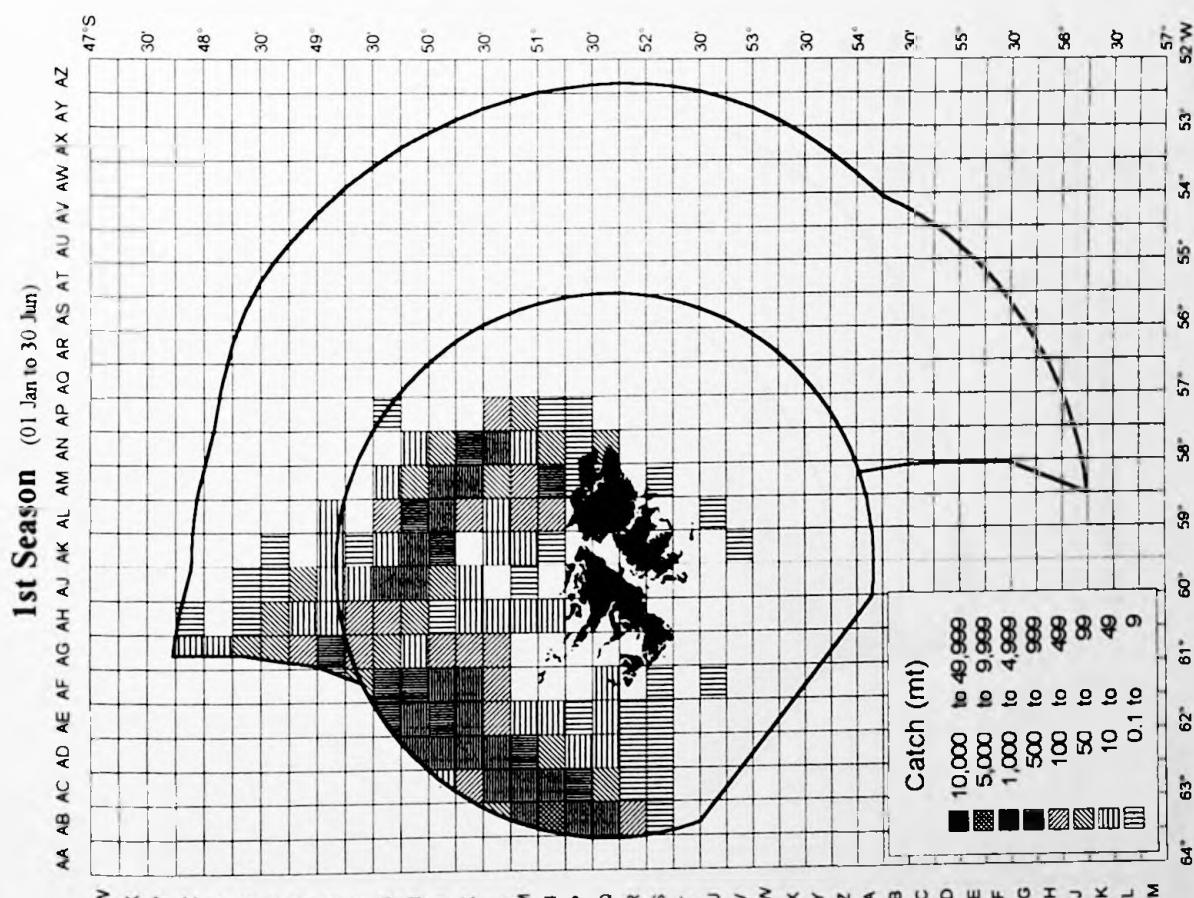


1995

FICZ and FOCZ

Illex argentinus

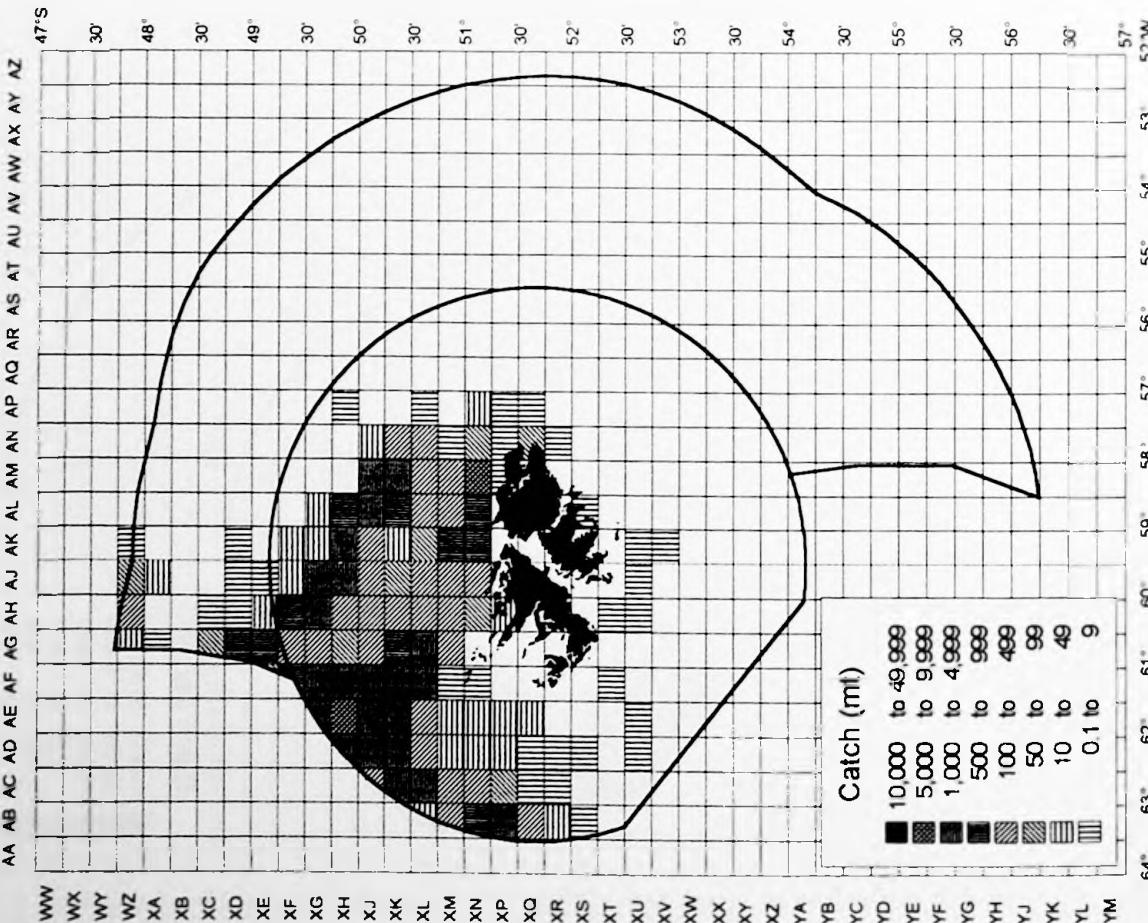
Catch (mt) by grid square



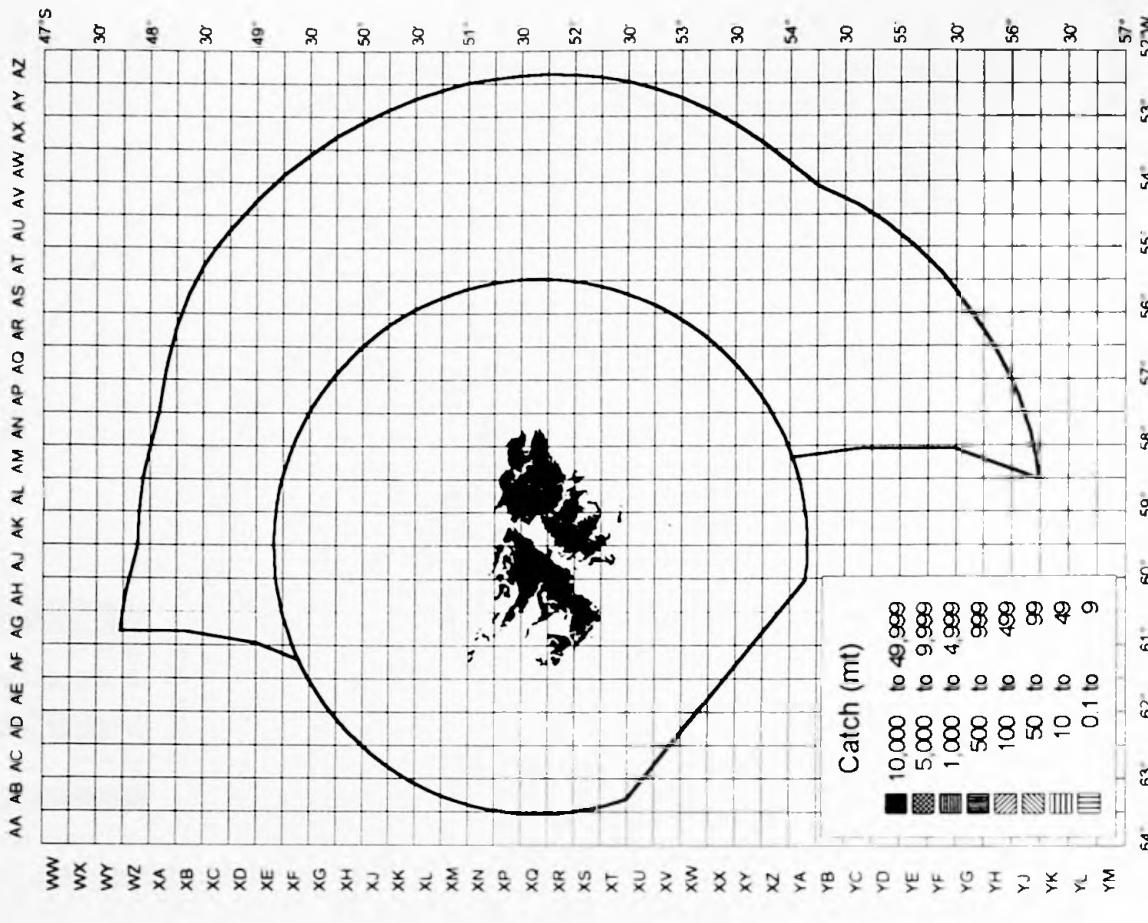
FICZ and FOCZ

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1st Season (01 Jan to 30 Jun)



2nd Season (01 Jul to 31 Dec)



Catch (mt) by grid square

Illex argentinus - Illex squid

Genypterus blacodes - Kingclip

Table G.1 Total catch (tonnes) by vessel type and year

VESSEL TYPE	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
CO	42	28	8	103		31	119	14		
TR	934	822	941	1849	1643	868	1841	1667		
	977	850	949	1952	1643	899	1960	1681		

Table G.2 Total catch (tonnes) by month and year

MONTH	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
January			9	29	33	56	10	25		
February	2	31	53	98	49	73	30	12		
March	7	118	120	64	69	78	122	256		
April	60	151	86	66	89	75	141	364		
May	19	107	4	8	101	29	101	114		
June	6	26	4	3	26	10	20	50		
July	184	110	107	10	55	29	136	70		
August	280	69	133	277	201	58	293	189		
September	194	138	106	360	198	128	347	261		
October	223	68	160	641	369	179	277	164		
November	3	13	136	393	393	116	226	155		
December		19	32	2	60	68	258	22		
	977	850	949	1952	1643	899	1960	1681		

Table G.3 Total catch (tonnes) by fishing fleet and year

Fishing fleet	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
BG			1							
CL	1	0		2	2	2	0	0		
ES	774	732	840	869	771	576	1299	706		
FK	2	1	15	4	8	22	116	297		
FR						3	3	2		
GR	23									
HN			26	106	196	39	61	59		
IT	2		1	14	54	42	3			
JP	97	51	1	1	17	1	16	4		
KR	47	19	40	623	425	181	367	467		
NL		1								
NO		2								
PA			23	246	56	5	33	46		
PL		4	0	0			1	0		
PT	10	39	3	6	1	2	55	94		
RU						0				
SL				82	77	26				
UK	22	0	1		36	1	5	6		
	977	850	949	1952	1643	899	1960	1681		

Genypterus blacodes - Kingclip

Table G.4 Total catch (tonnes) by gross registered tonnage (GRT) and year

GRT	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<400	32		56	490	155	39	120	102		
400-599	24	122	39	114	192	48	103	96		
600-799	29	31	46	137	290	151	240	219		
800-999	143	64	162	470	274	185	391	338		
1000-1499	342	231	359	238	366	385	615	445		
1500-1999	206	338	161	424	141	51	364	377		
2000-2999	141	26	126	78	208	39	110	100		
≥3000	60	39	1	1	17	1	16	4		
	977	850	949	1952	1643	899	1960	1681		

Table G.5 Total catch (tonnes) by length overall (m) (LOA) and year

LOA	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<45		69	46	40	60	22	8			
45-49	78	28	76	102	93	112	258	160		
50-54	91	127	186	599	668	332	454	602		
55-59	96	40	61	535	207	74	288	223		
60-64	93	55	67	184	58	98	367	136		
65-69	125	187	106	113	102	81	253	118		
70-79	322	272	344	308	285	161	300	345		
80-89	85	37	52	68	147	18	16	94		
≥90	86	35	11	2	24	2	16	4		
	977	850	949	1952	1643	899	1960	1681		

Table G.6 Total catch (tonnes) by brake horsepower (BHP) and year

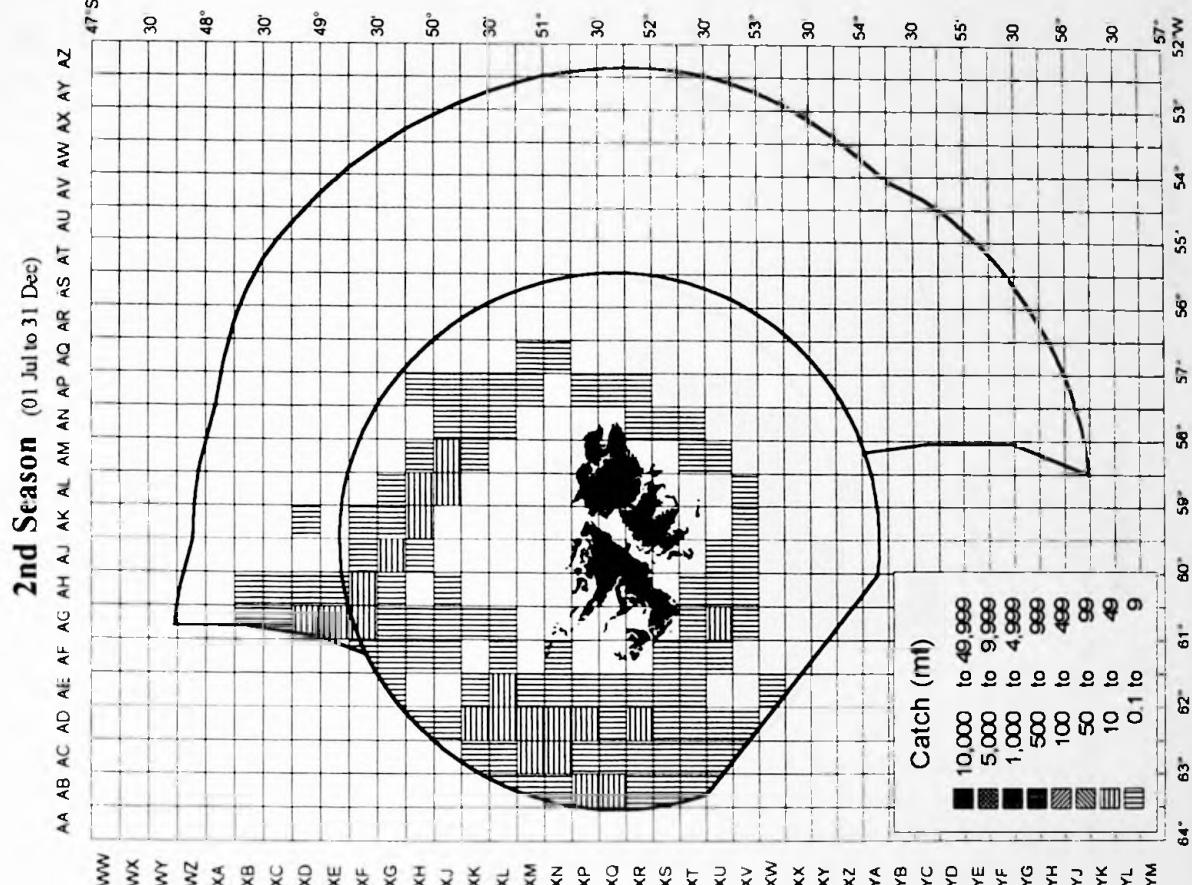
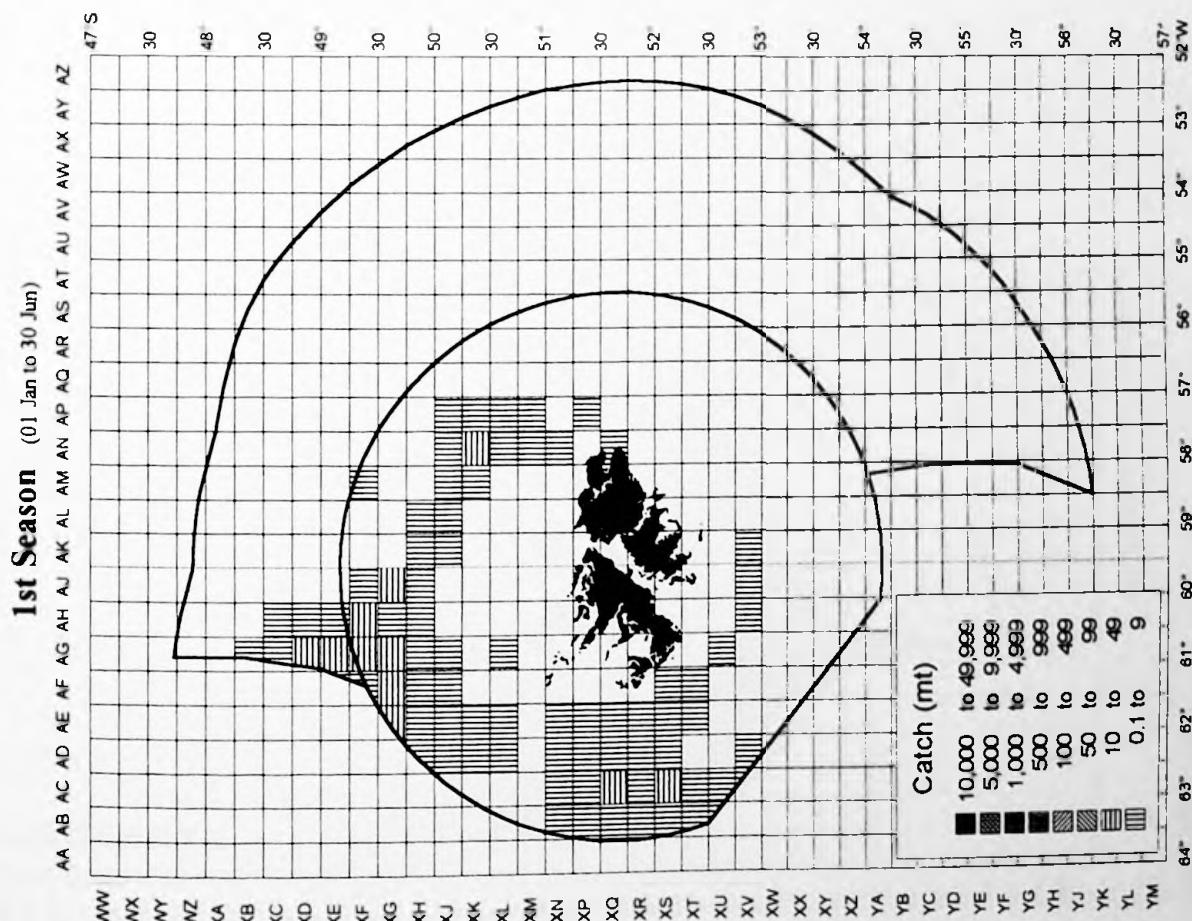
BHP	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<1000		28	24		36	1		0		
1000-1199	62	40	99	129	108	78	141	73		
1200-1399	2	46	11							
1400-1599	100	69	81	76	145	96	220	116		
1600-1799	7	35	10	1	39	55	75	40		
1800-1999	372	304	428	640	522	386	937	702		
2000-2499	89	123	25	476	211	129	290	347		
2500-2999	170	123	195	550	397	130	271	297		
3000-3999	123	43	38	10	149	19	8	101		
≥4000	50	39	37	69	36	5	19	4		
	977	850	949	1952	1643	899	1960	1681		

1994

Genypterus blacodes

FICZ and FOCZ

Catch (mt) by grid square

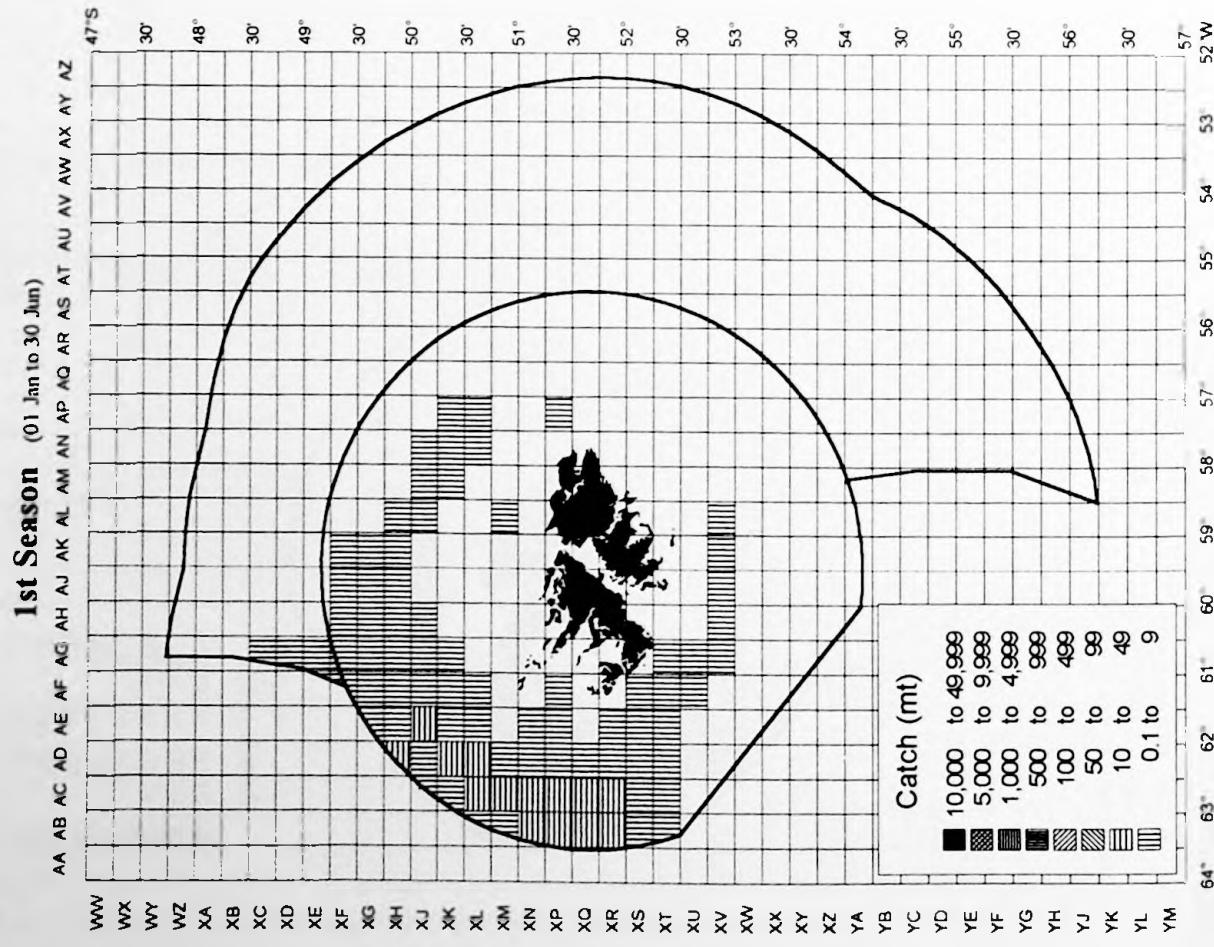


Genypterus blacodes - Kingclip

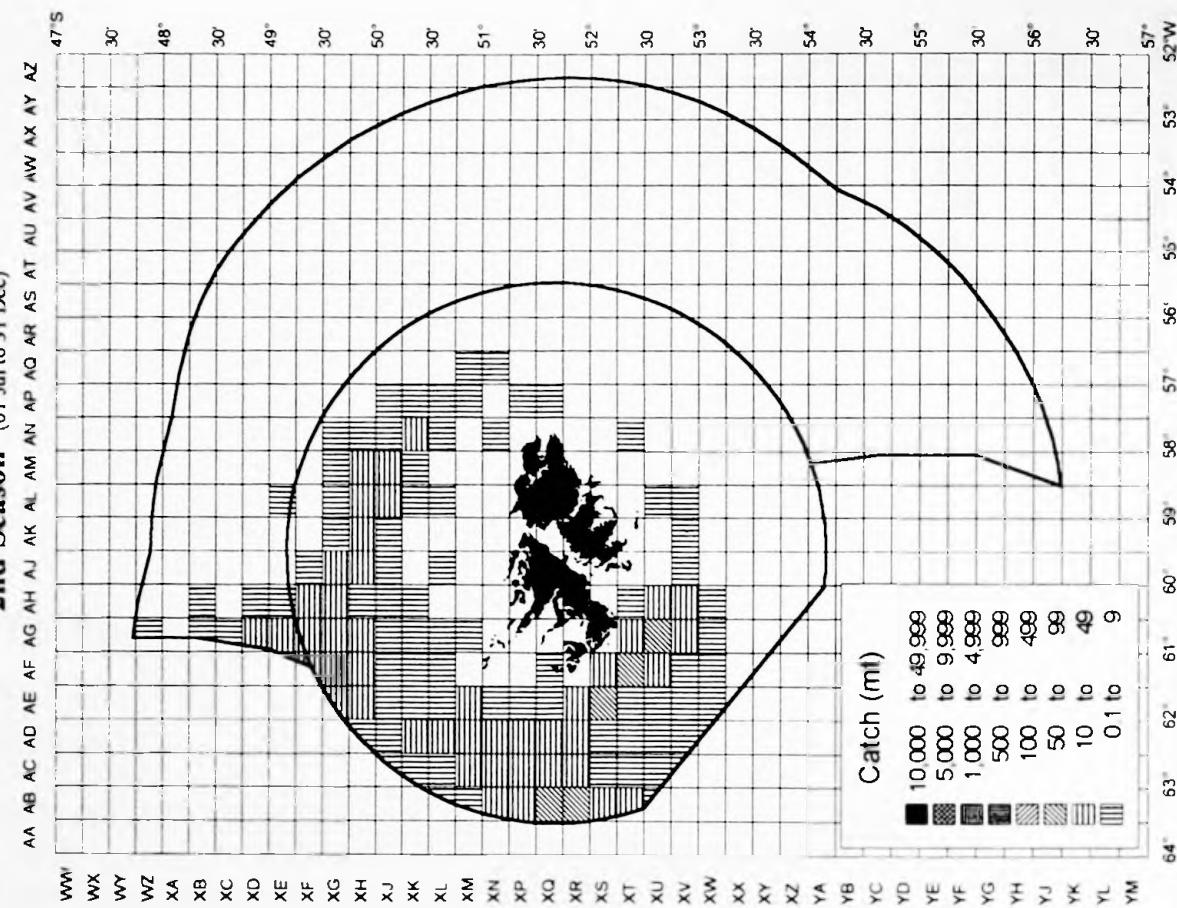
1995

Genypterus blacodes

Catch (mt) by grid square



2nd Season (01 Jul to 31 Dec)

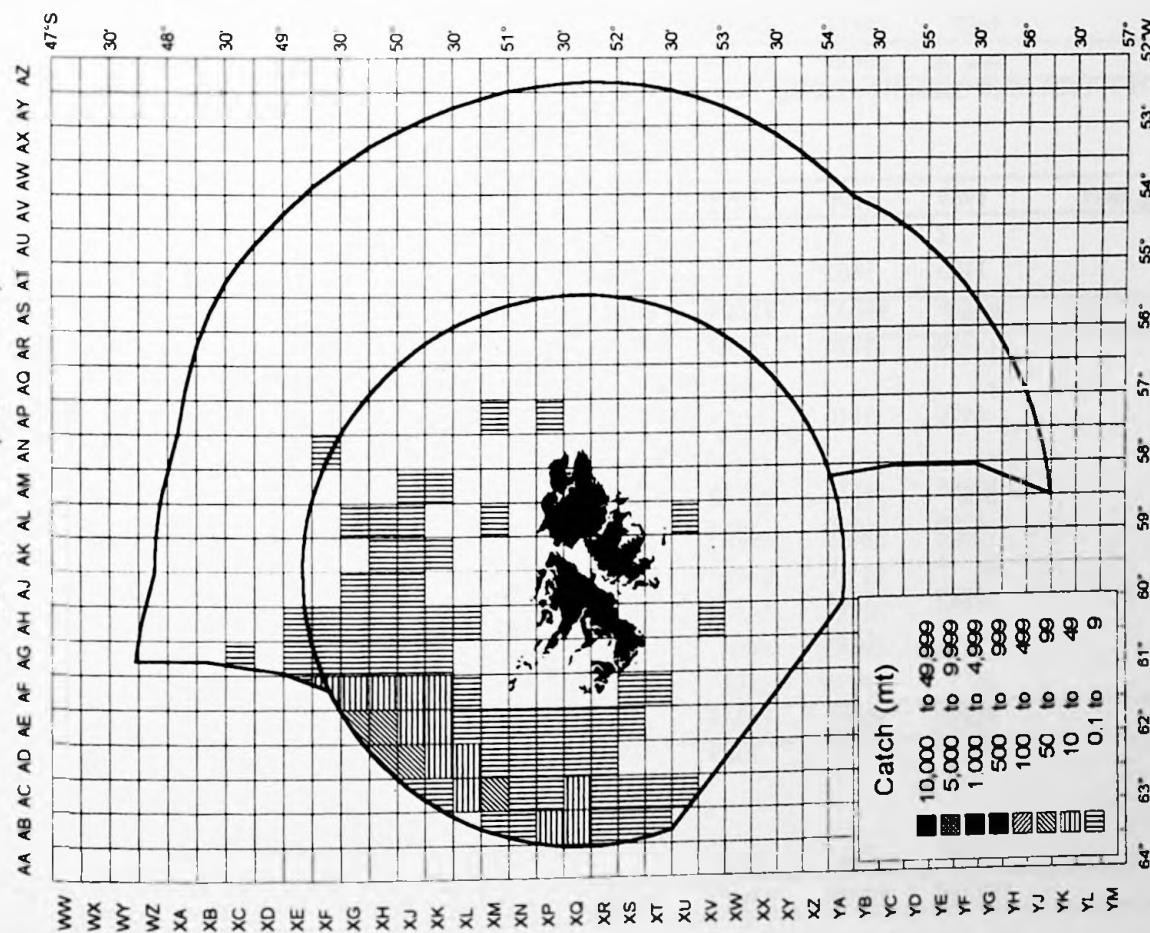


Catch (mt) by grid square

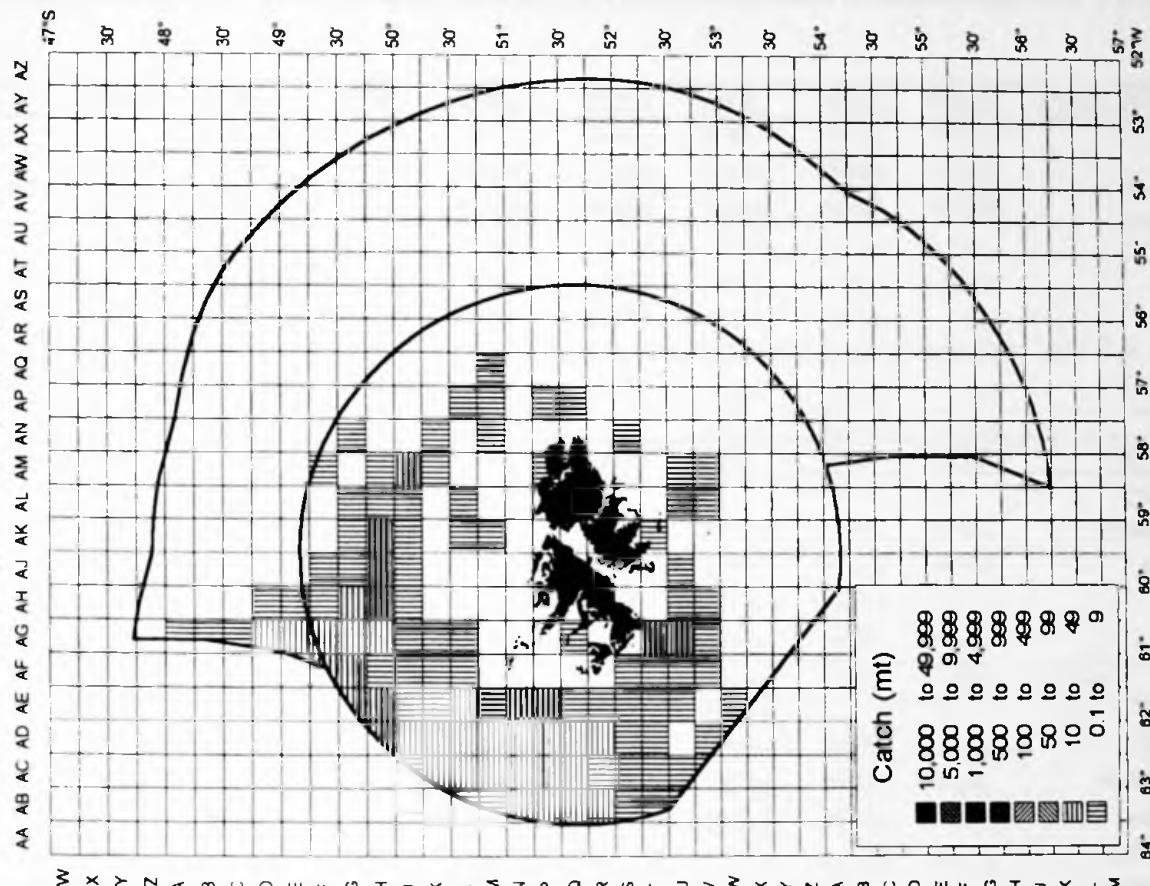
1996 *Genypterus blacodes*

FICZ and FOCZ

1st Season (01 Jan to 30 Jun)



2nd Season (01 Jul to 31 Dec)



Genypterus blacodes - Kingclip

Loligo gahi - Patagonian squid

Table H.1 Total catch (tonnes) by vessel type and year

VESSEL TYPE	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
CO	4877	2004	2636	3467	1119		52	0		
TR	113843	80986	51181	79917	51160	65757	98256	61360		
	118720	82990	53817	83384	52279	65757	98308	61360		

Table H.2 Total catch (tonnes) by month and year

MONTH	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
January	62			0		2				
February	27896	25391	12148	15318	3724	9690	17686	6424		
March	32309	21139	9552	12978	1500	7805	17850	6012		
April	28019	14118	8532	8868	12303	9878	16838	14280		
May	15277	8261	7121	10992	6040	8127	8552	11949		
June	3177	457	0	1			1	0		
July	58		5	6	5	1	4	1		
August	5921	5794	9457	15035	15682	14752	18728	12157		
September	5086	4080	2729	12844	8433	11739	14535	8180		
October	914	3750	4270	7340	4590	3762	4095	2355		
November	0		1	2	1	0	13	1		
December	2						6			
	118720	82990	53817	83384	52279	65757	98308	61360		

Table H.3 Total catch (tonnes) by fishing fleet and year

Fishing fleet	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
BG	2	5								
CL	1105	1865		2964	1415	2353	4001	2431		
ES	63156	45435	35504	60843	39012	46736	53671	22767		
FK	750	5796	1094	1683	1494	5266	22290	24299		
FR					1636	7245	4394			
GR	4576	3110								
HN			1	2	1	1	31	8		
IT	10295	4537	2335	2167	491	36	6			
JP	4280	4440	2534	5034	4399	5687	5558	3186		
KR	4	0	43	13	6	11	158	38		
NL	4587	3365								
NO		1317								
PA			113	8		0	1	1		
PL	10082	6469	7234	9275	3698	593		1		
PT	8684	5306	3039	1395	1762	2206	3431	192		
RU					3					
SL				0						
UK	11199	1345	1921		1	1228	1916	4043		
	118720	82990	53817	83384	52279	65757	98308	61360		

Loligo gahi - Patagonian squid

Table H.4 Total catch (tonnes) by gross registered tonnage (GRT) and year

GRT	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<400	2		105	3	0		39	2		
400-599	7910	3877	451	1112	549	77	13	0		
600-799	2103	576	387	4184	5141	3912	3111	1718		
800-999	8759	4112	3463	7603	2013	5831	1697	2873		
1000-1499	30217	16962	16456	33122	13623	18650	39437	14998		
1500-1999	25236	21320	14173	9387	11077	14290	14853	13015		
2000-2999	44106	28911	16248	22939	15476	17308	33598	25566		
≥3000	387	7233	2534	5034	4399	5687	5558	3187		
	118720	82990	53817	83384	52279	65757	98308	61360		

Table H.5 Total catch (tonnes) by length overall (m) (LOA) and year

LOA	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<45	4071	1630	0	14	46	18	1			
45-49	2392	1637	3888	10288	3862	5968	1632	1275		
50-54	6819	1850	3720	9785	4436	5930	7600	4634		
55-59	7921	5802	1225	4462	2741	2159	1379	3536		
60-64	7368	8751	1393	9313	5524	7028	12790	11624		
65-69	6484	3750	10505	5629	4557	5870	12039	6329		
70-79	48716	26348	18009	21892	16277	22588	36811	21204		
80-89	25106	17479	8329	10345	6654	5851	12706	4797		
≥90	9842	15744	6748	11656	8182	10345	13349	7961		
	118720	82990	53817	83384	52279	65757	98308	61360		

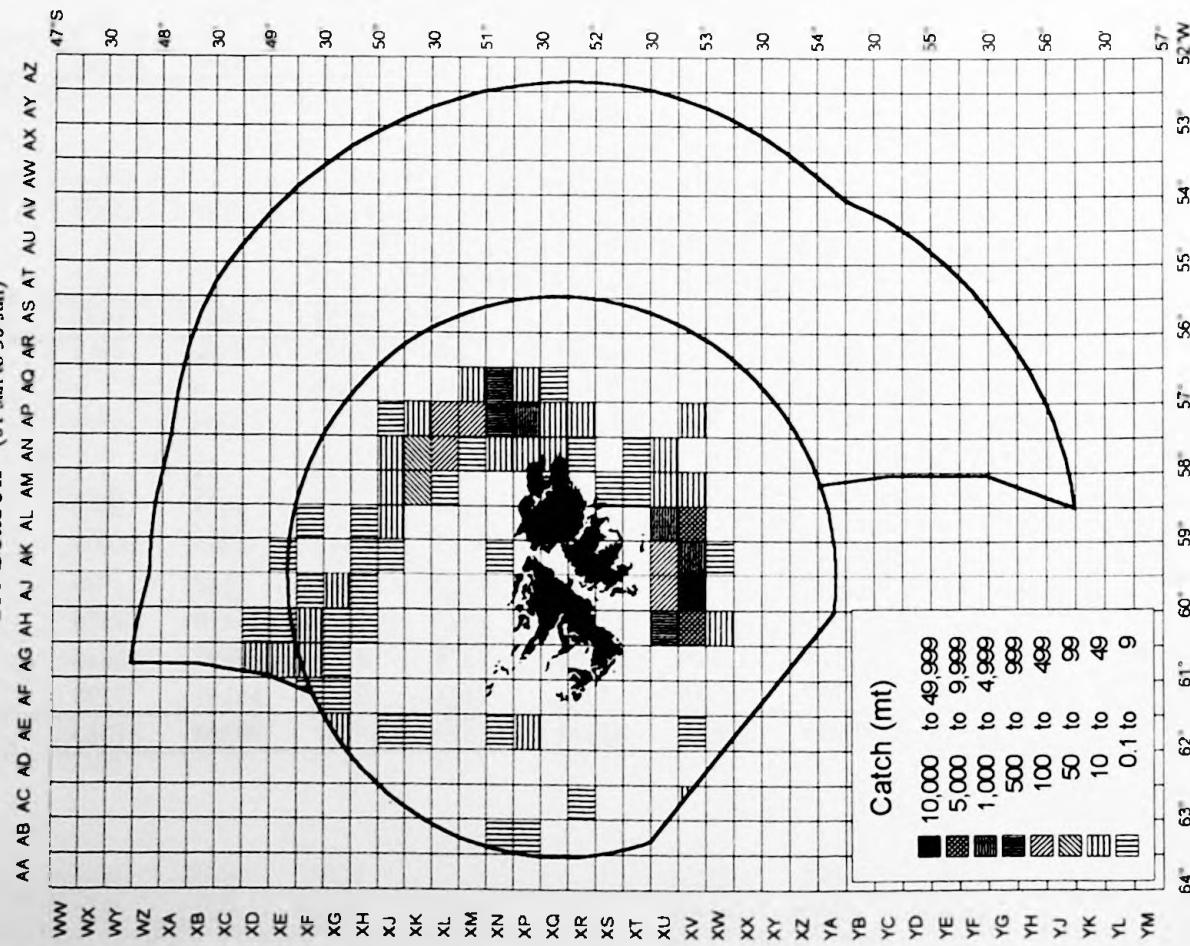
Table H.6 Total catch (tonnes) by brake horsepower (BHP) and year

BHP	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<1000	4251	520			1	1931	3078	1712		
1000-1199	7578	3867	838	6607	4478	2023	9	4		
1200-1399	310	914	0							
1400-1599	3429	308	5354	6280	2057	931	51	1		
1600-1799	3968	2053	2624	1949	2154	63	1033	2836		
1800-1999	18806	17107	11198	26168	17617	24342	34265	16807		
2000-2499	17101	6929	9095	6401	1120	1214	112	20		
2500-2999	29579	21905	8544	11538	7892	16722	29116	18575		
3000-3999	28725	21620	13629	19388	9538	8698	17493	13615		
≥4000	4974	7767	2535	5053	7421	9832	13152	7790		
	118720	82990	53817	83384	52279	65757	98308	61360		

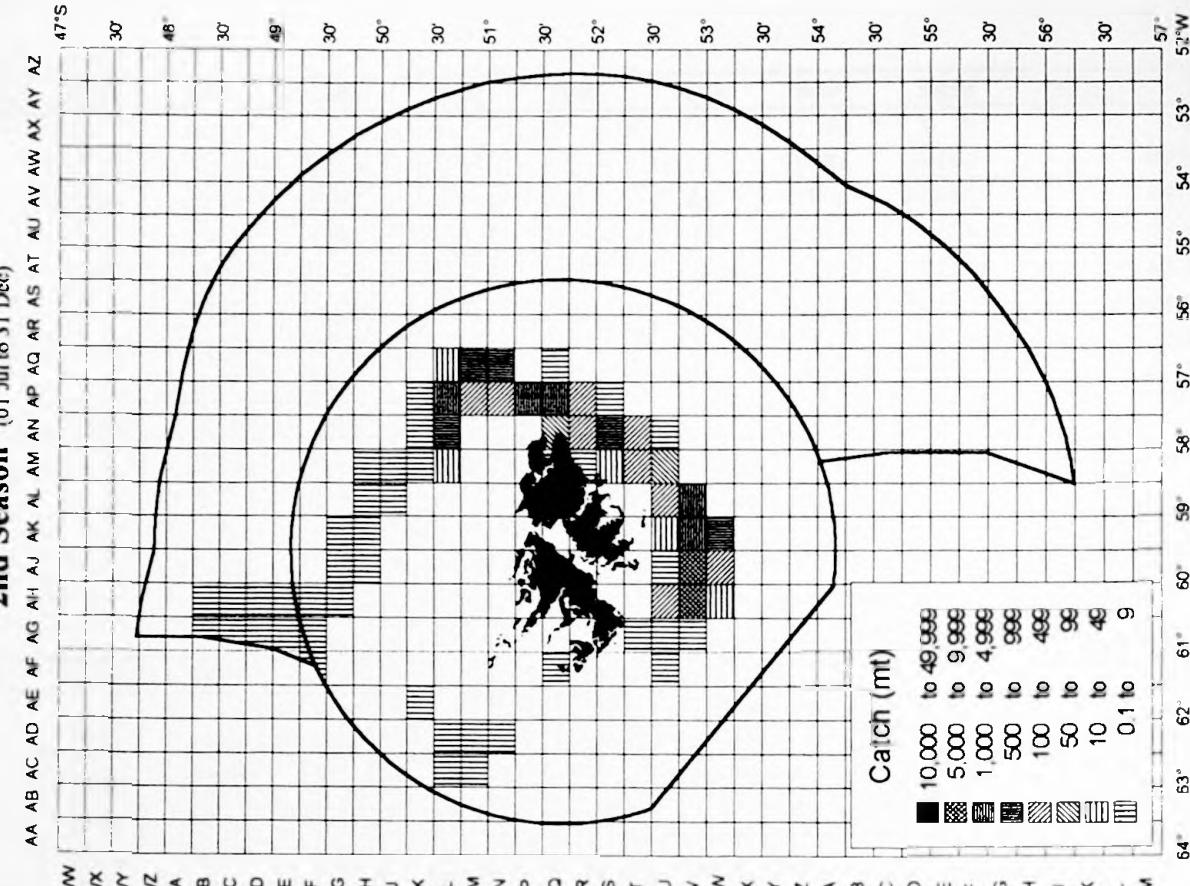
1994

Loligo gahi

1st Season (01 Jun to 30 Jun)

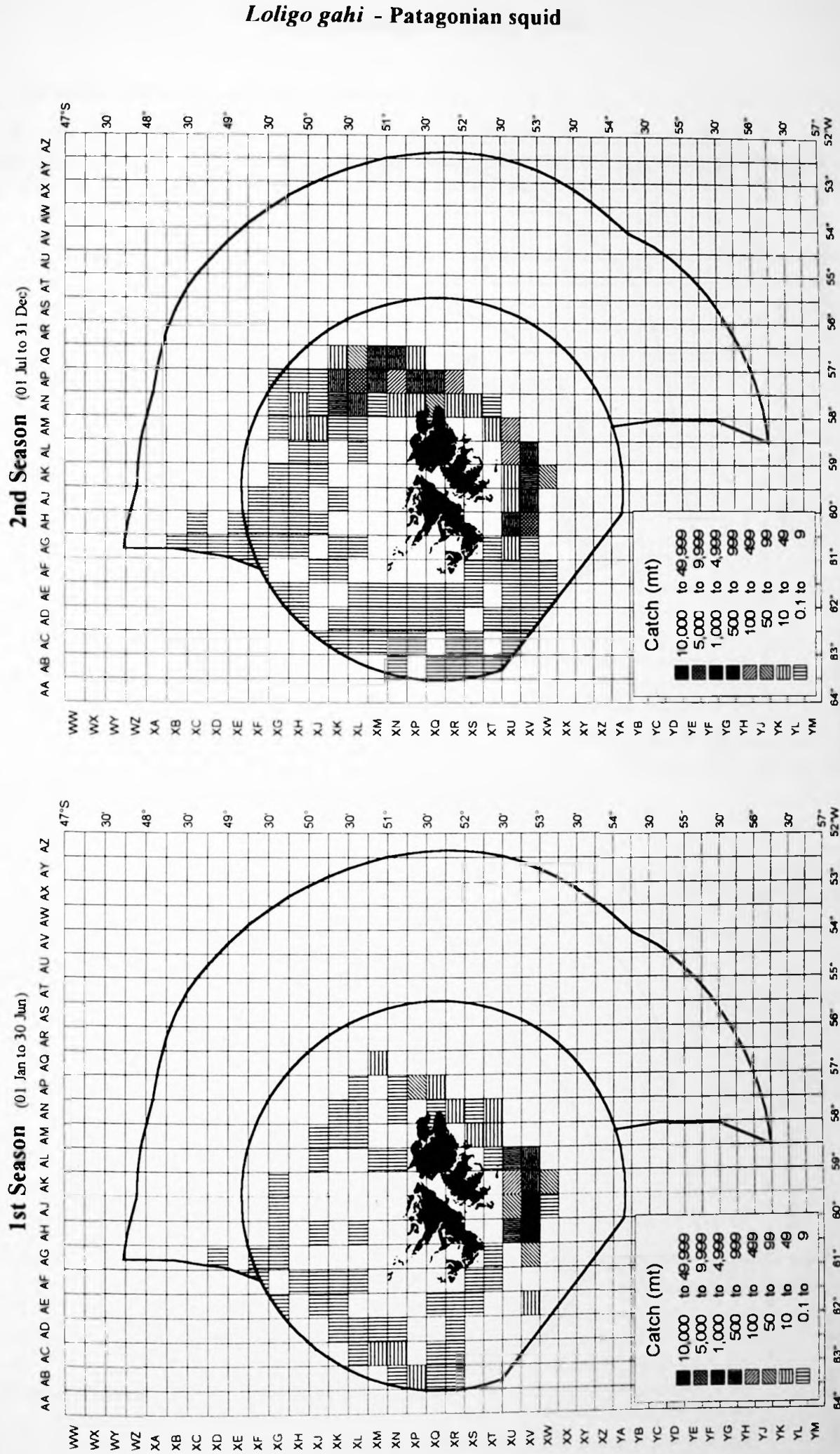


2nd Season (01 Jul to 31 Dec)



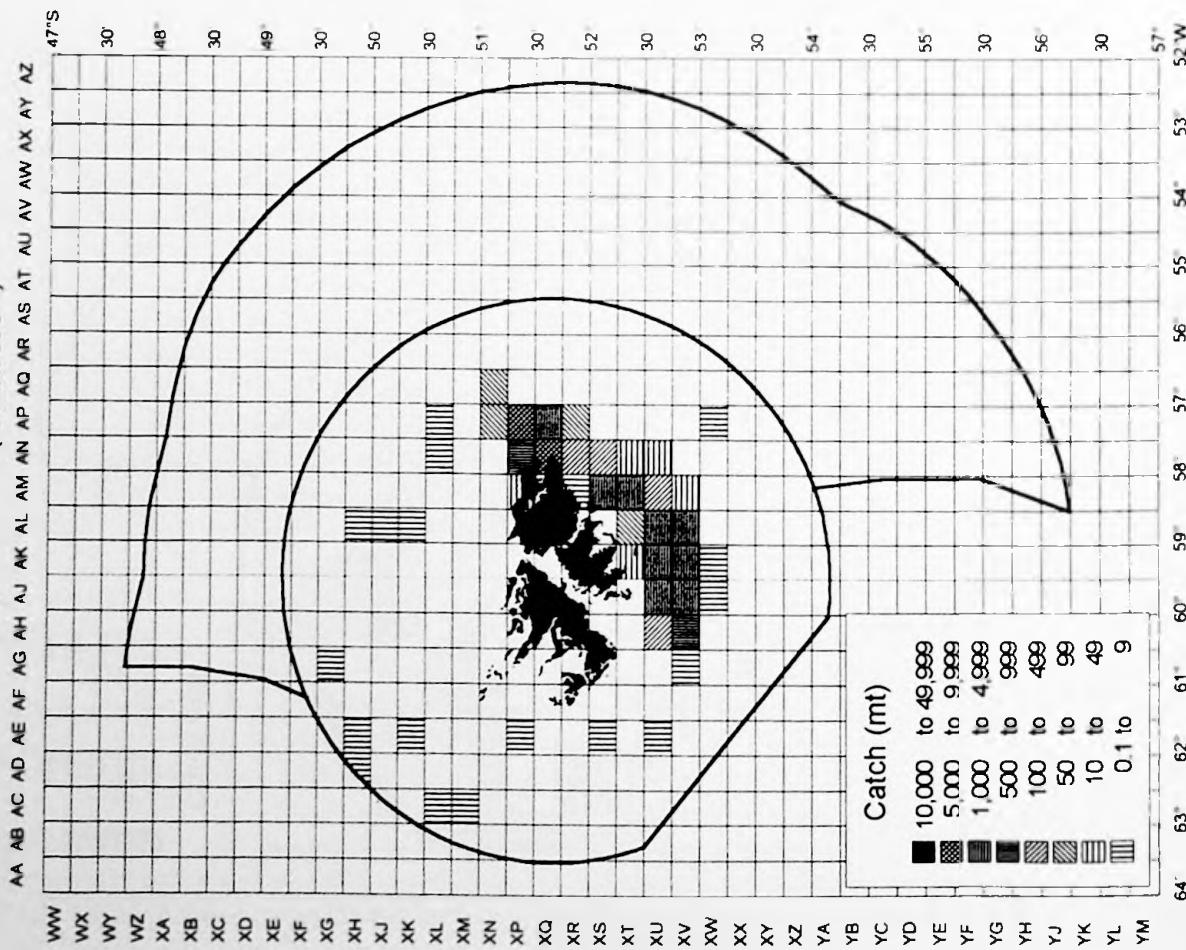
Catch (mt) by grid square

1995 *Loligo gahi* FICZ and FOCZ Catch (mt) by grid square

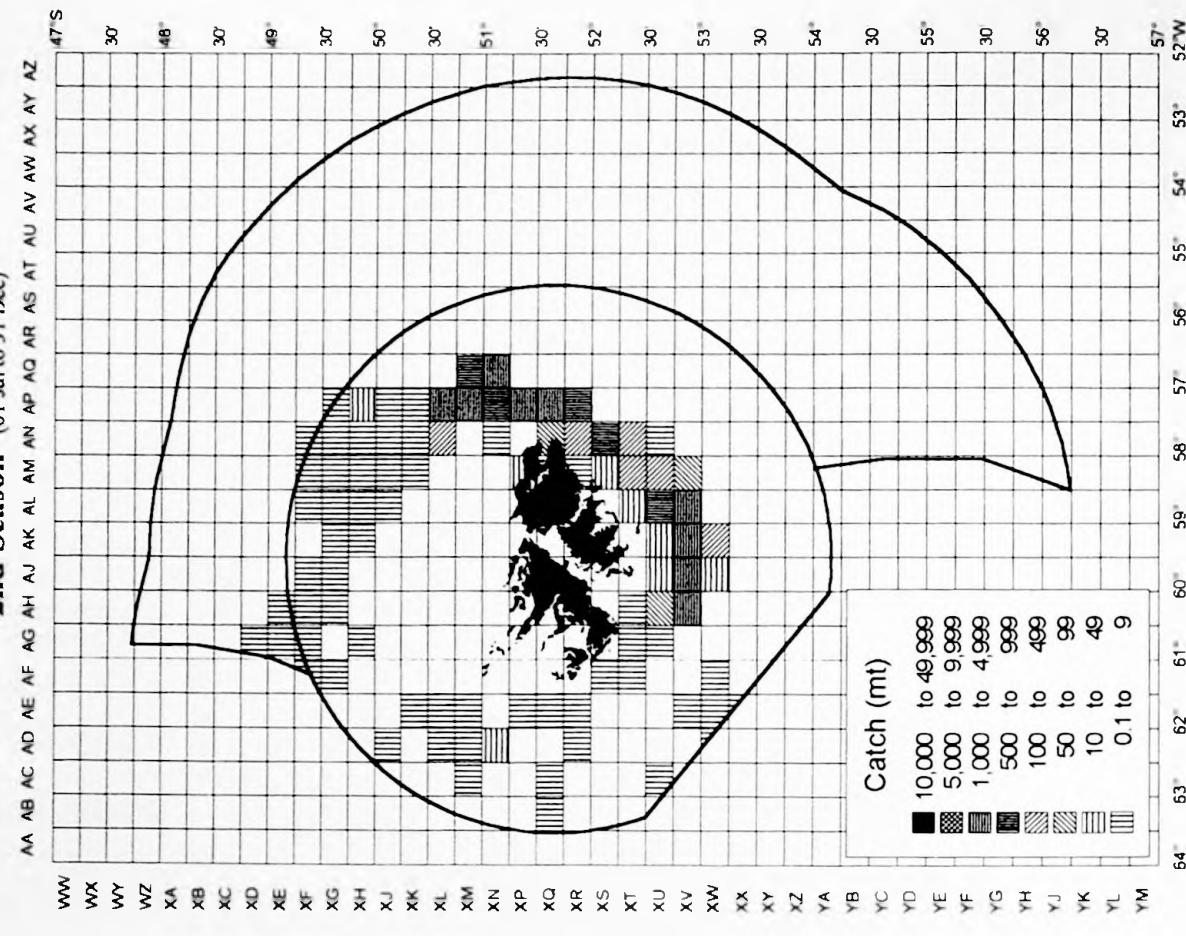


1996 *Loligo gahi*

1st Season (01 Jan to 30 Jun)



2nd Season (01 Jul to 31 Dec)



Martialia hyadesi - *Martialia* squid

Table I.1 Total catch (tonnes) by vessel type and year

VESSEL TYPE	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
CO		1			13					
JI			138				5798	107		
TR	0	3	3	1	20	0		4		
	0	4	141	1	33	0	5798	111		

Table I.2 Total catch (tonnes) by month and year

MONTH	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
January						0				
February		0		0	32	0				
March	3	1			0	0		0		
April	1	136		0			7			
May	0	4	1	0			5791	63		
June								44		
July	0			0						
August				0						
September			1							
November				0		0				
December								3		
	0	4	141	1	33	0	5798	111		

Table I.3 Total catch (tonnes) by fishing fleet and year

Fishing fleet	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
BG		3								
BZ							57			
CL				0	0					
ES		1	0	1	0	0		1		
FK	0			0				0		
HN							118			
JP			81		0		23			
KR		1	41	0			5336	107		
PA					0				3	
PL			2		32					
PT		0	0		0					
RU						0				
TW			17				264			
UK		0								
	0	4	141	1	33	0	5798	111		

Martialia hyadesi - *Martialia* squid

Table I.4 Total catch (tonnes) by gross registered tonnage (GRT) and year

GRT	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<400				0			64			
400-599							1232	1		
600-799			51	0			3718	107		
800-999			22	0			537			
1000-1499		0	66	0	1	0	248			
1500-1999	0	0	0	0		0			1	
2000-2999		3	2	0	32	0				
≥3000		1			0				3	
	0	4	141	1	33	0	5798	111		

Table I.5 Total catch (tonnes) by length overall (m) (LOA) and year

LOA	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<45							225			
45-49			45	1			2850	55		
50-54			5	0	0		1391	52		
55-59	0		22	0			771			
60-64			9	0	0	0	242			
65-69		0	3			0	235	1		
70-79		0	55	0		0	85	0		
80-89		3	2		32					
≥90		0			0				3	
	0	4	141	1	33	0	5798	111		

Table I.6 Total catch (tonnes) by brake horsepower (BHP) and year

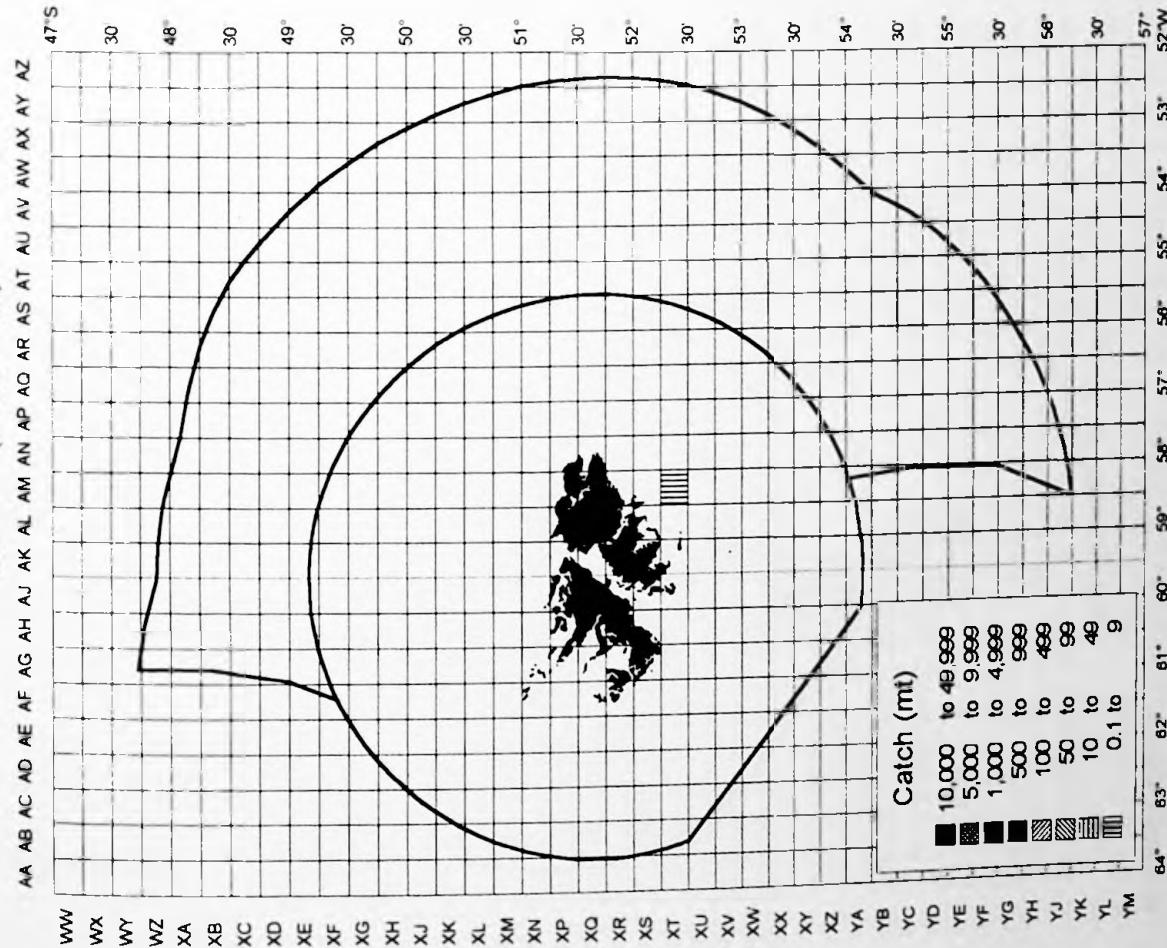
BHP	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<1000			0				517	1		
1000-1199			33	0			808	27		
1200-1399			45				2402	79		
1400-1599			6	0			1552	0		
1600-1799		0	13				358			
1800-1999		0	42	0	0	0	14	1		
2000-2499		0		0	13	0	149			
2500-2999			1	0	0					
3000-3999	0	3	2	0	19				3	
≥4000		1			0					
	0	4	141	1	33	0	5798	111		

1994

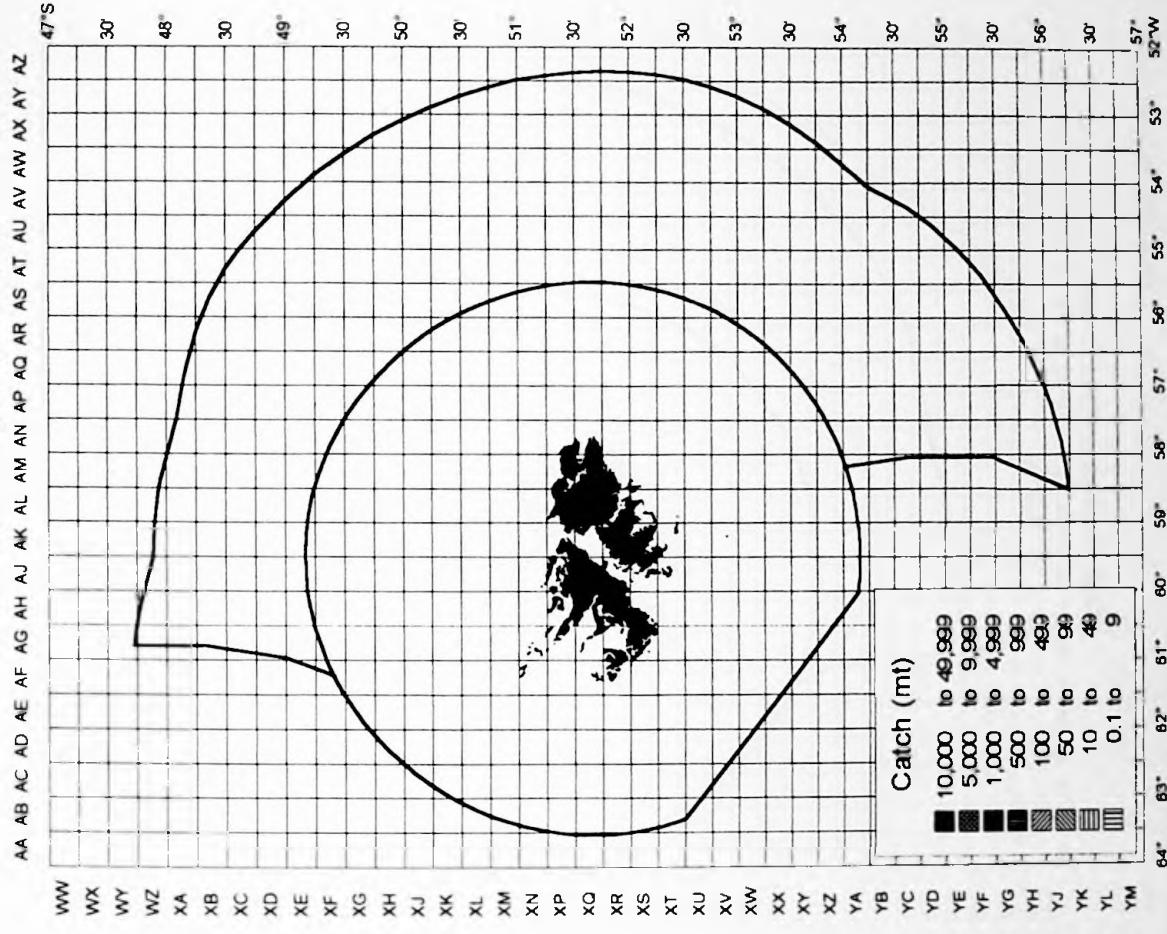
Martialia hyadesi

FICZ and FOCZ

1st Season (01 Jan to 30 Jun)



2nd Season (01 Jul to 31 Dec)



Martialia hyadesi - Martialia squid

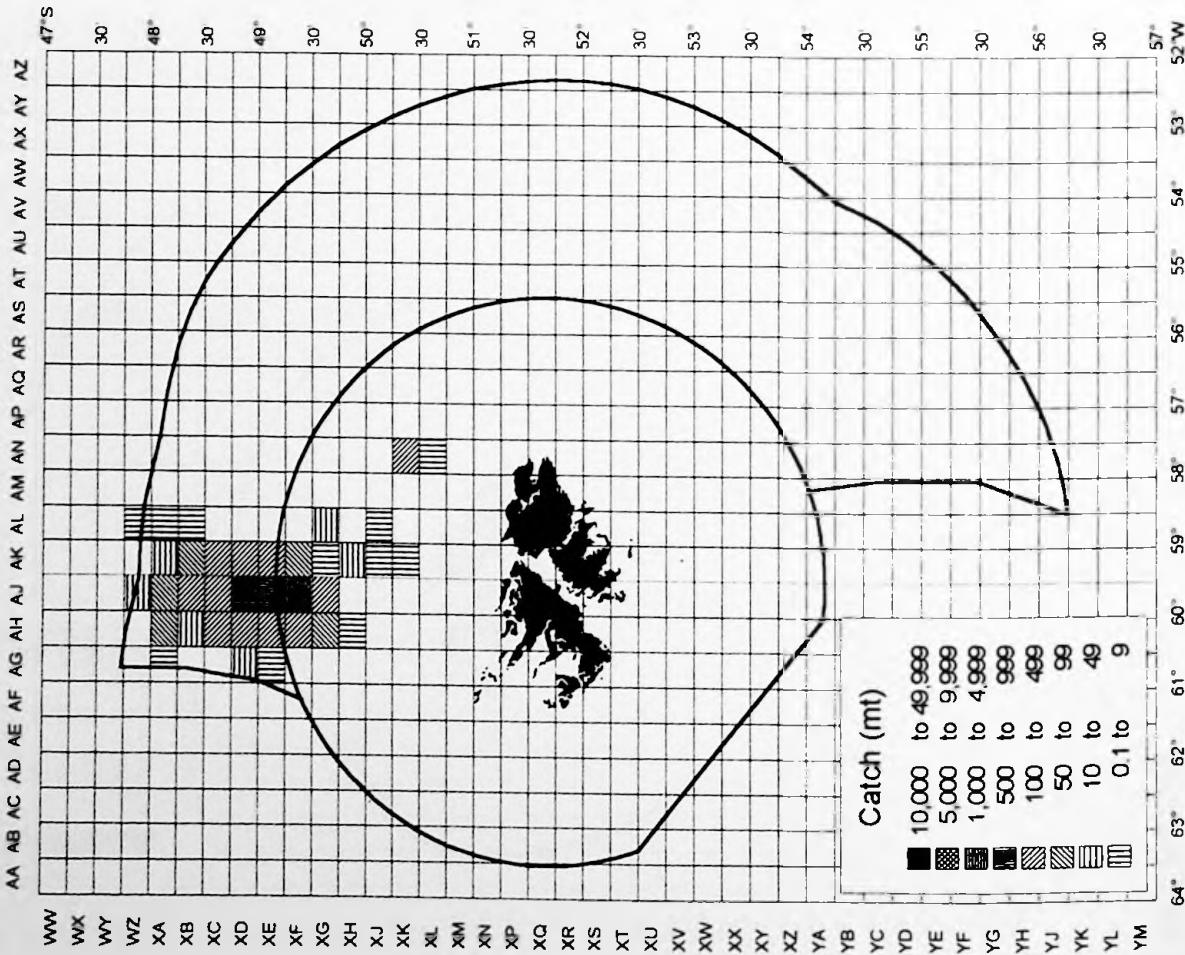
Catch (mt) by grid square

1995

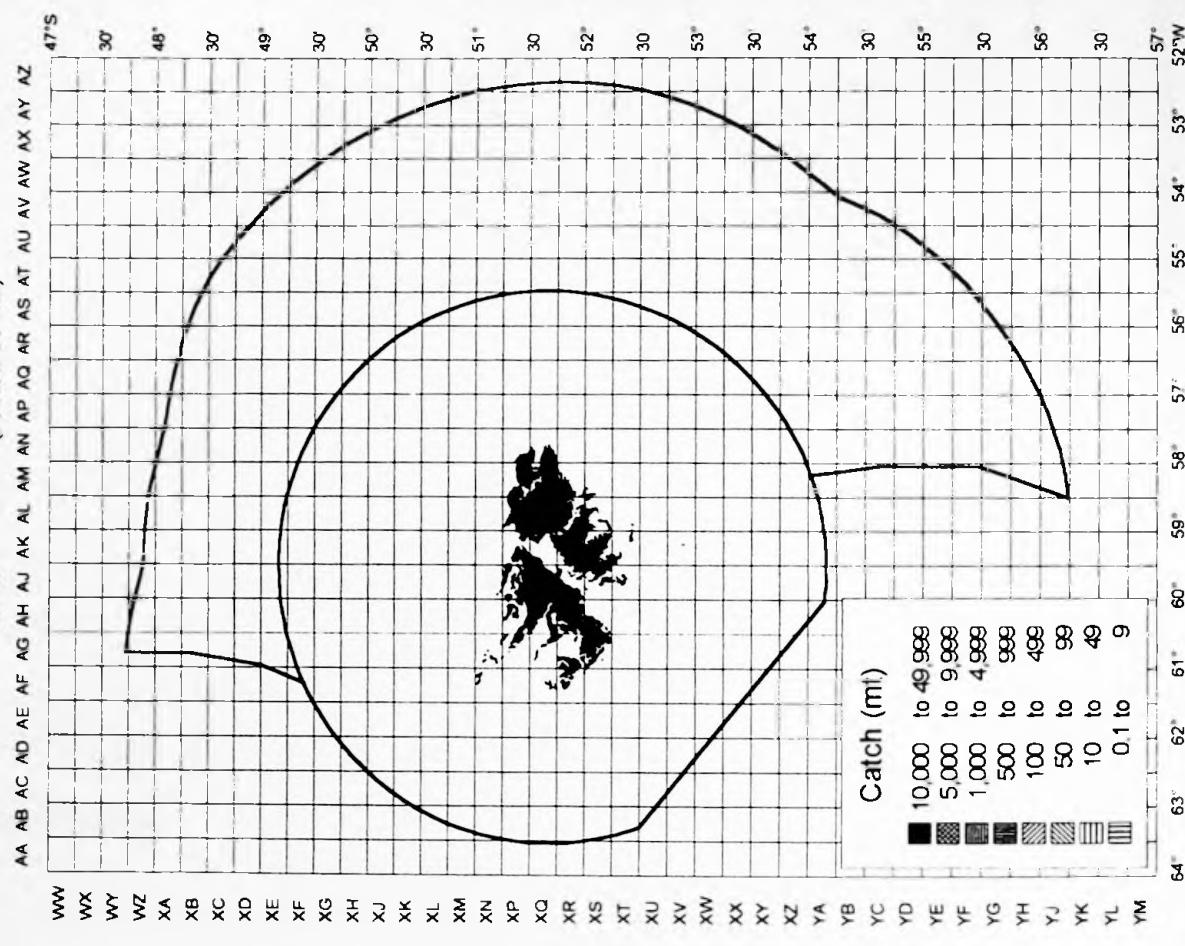
Martialia hyadesi

Catch (mt) by grid square

1st Season (01 Jun to 30 Jun)

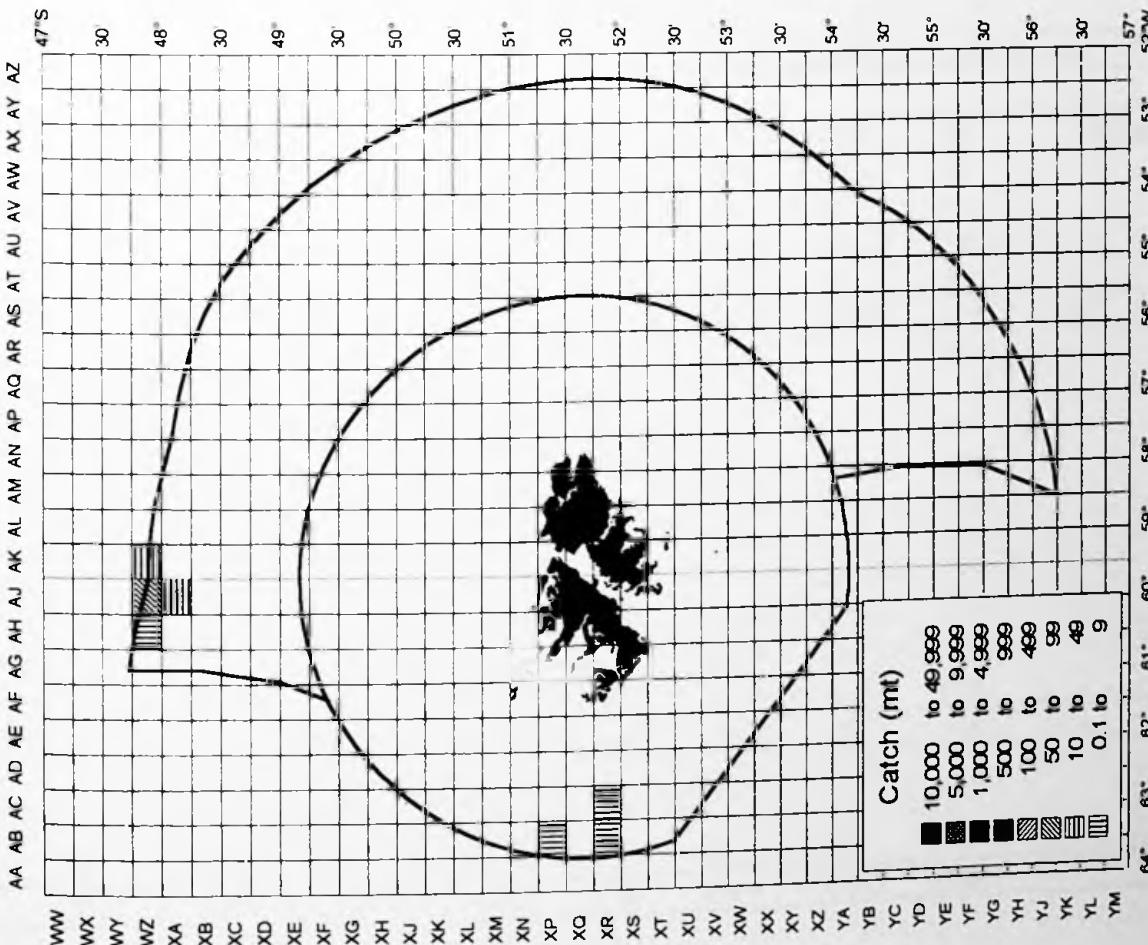


2nd Season (01 Jul to 31 Dec)

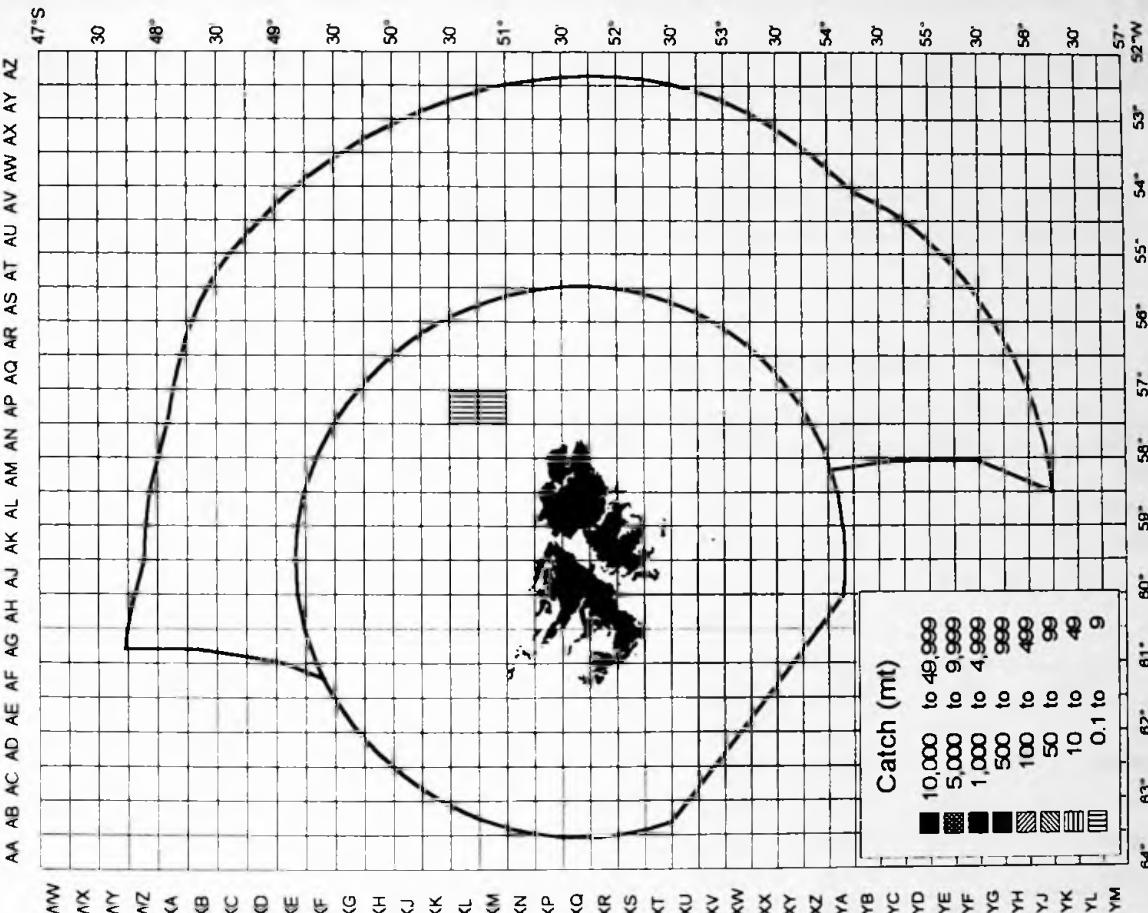


1996 *Martialia hyadesi*

1st Season (01 Jan to 30 Jun)



2nd Season (01 Jul to 31 Dec)



Catch (mt) by grid square

Merluccius spp. - Hakes

Table J.1 Total catch (tonnes) by vessel type and year

VESSEL TYPE	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
CO	1368	385	168	135		78	110	13		
JI						0				
TR	15112	11515	6591	3935	3029	1336	1857	1635		
	16480	11900	6759	4070	3029	1414	1967	1648		

Table J.2 Total catch (tonnes) by month and year

MONTH	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
January			232	161	293	195	33	74		
February	6	459	641	479	171	80	23	9		
March	325	1846	1011	717	140	50	137	342		
April	3211	2453	1000	586	466	188	230	351		
May	462	1608	128	141	328	147	181	109		
June	142	359	43	16	92	58	105	84		
July	2211	1468	1465	83	165	61	285	127		
August	6016	1051	1182	789	392	221	329	277		
September	3213	2041	533	445	352	155	263	136		
October	870	404	192	246	337	128	173	77		
November	10	129	256	301	239	103	96	46		
December	14	82	77	106	55	27	114	16		
	16480	11900	6759	4070	3029	1414	1967	1648		

Table J.3 Total catch (tonnes) by fishing fleet and year

Fishing fleet	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
BG	123	42	12							
CL	36	12		25	5	3		1		
ES	12331	10490	5995	3091	1693	967	1161	803		
FK	19	46	25	29	88	43	195	381		
FR						20	4	17		
GR	180									
HN			65	89	223	53	78	19		
IT	84		4	186	298	45	4			
JP	1324	222	1	5	55	31	75	84		
KR	60	136	290	390	446	197	347	244		
NL	3									
NO		26								
PA			96	121	70	18	15	14		
PL	1650	404	218	49	7					
PT	391	510	47	23	6	23	88	46		
RU						0				
SL				63	75	5				
TW						0				
UK	284	10	7		62	10		38		
	16480	11900	6759	4070	3029	1414	1967	1648		

Merluccius spp. - Hakes

Table J.4 Total catch (tonnes) by gross registered tonnage (GRT) and year

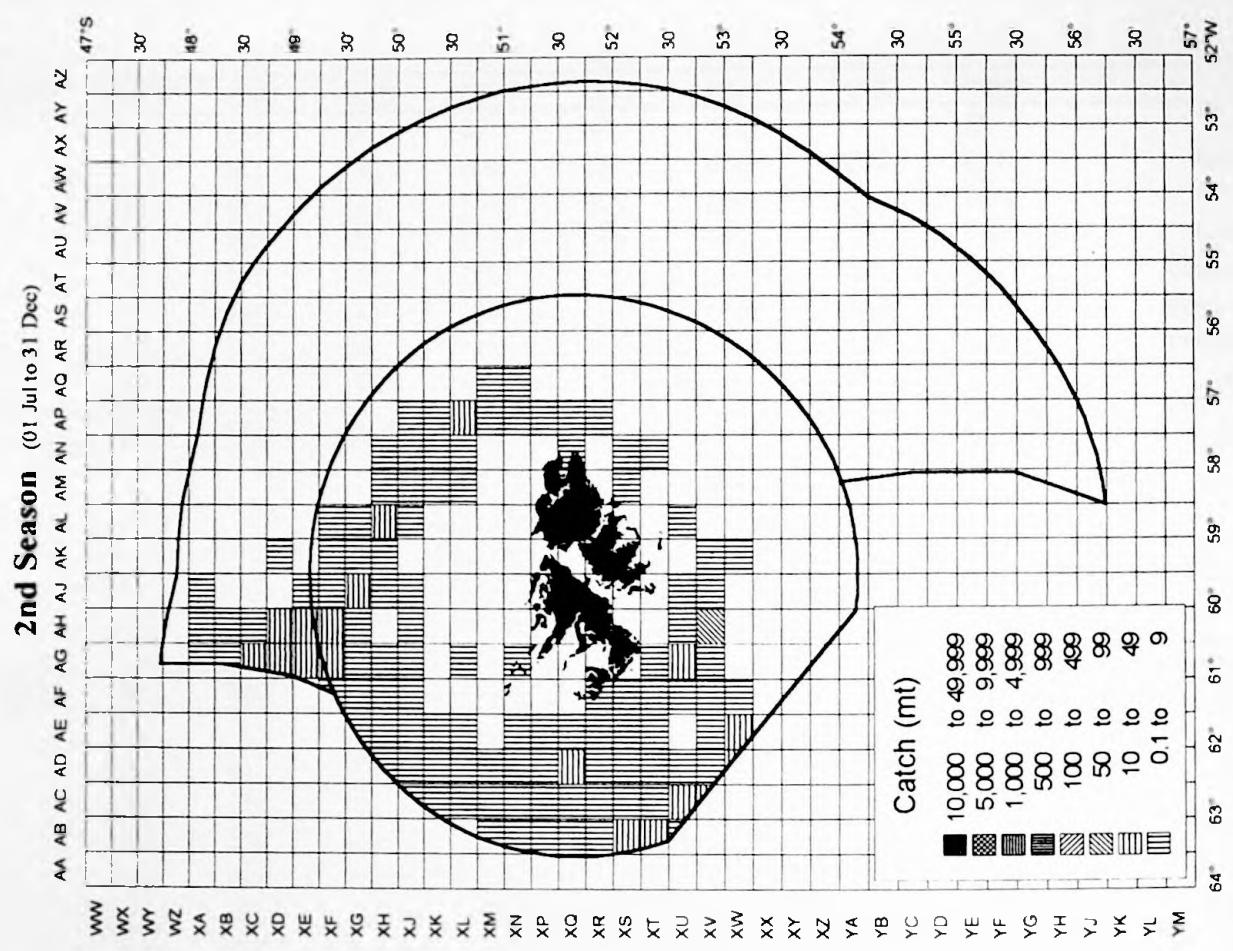
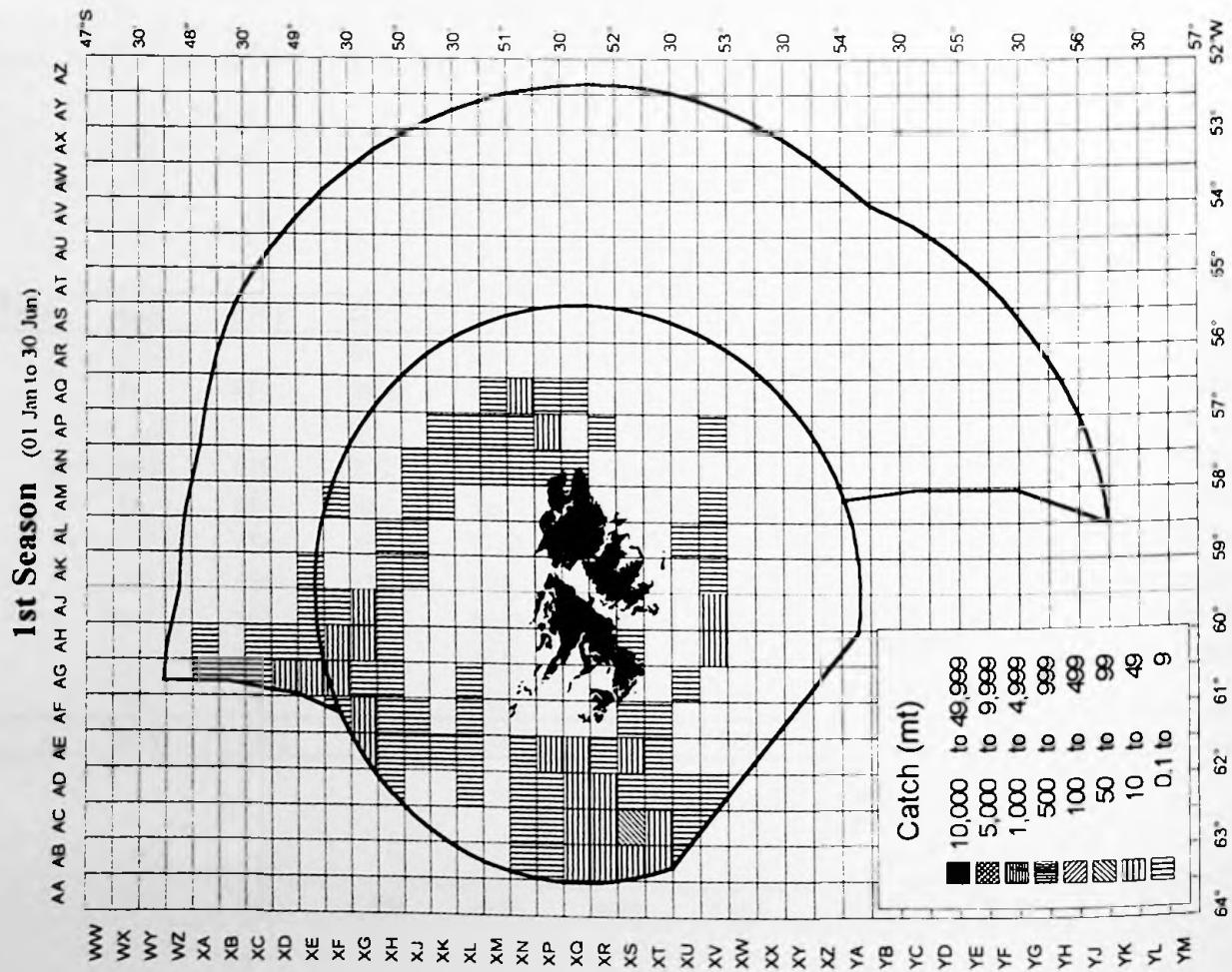
GRT	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<400	23		239	294	226	78	125	67		
400-599	365	1589	456	185	241	103	126	71		
600-799	445	83	603	220	327	111	128	125		
800-999	1657	801	584	488	257	182	298	192		
1000-1499	6759	3222	1409	1134	903	561	733	549		
1500-1999	3039	5486	1634	1336	444	146	281	373		
2000-2999	3270	509	1832	409	577	202	201	187		
≥3000	921	209	1	5	55	31	75	84		
	16480	11900	6759	4070	3029	1414	1967	1648		

Table J.5 Total catch (tonnes) by length overall (m) (LOA) and year

LOA	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<45	11	1047	614	66	104	52	13			
45-49	1341	325	287	294	90	159	228	145		
50-54	791	982	735	686	770	340	356	273		
55-59	1199	440	598	303	229	124	275	314		
60-64	1786	779	360	570	233	159	340	150		
65-69	2027	2748	621	296	127	121	243	183		
70-79	5471	4564	2664	1499	1231	349	346	440		
80-89	2394	740	667	330	162	55	88	53		
≥90	1460	275	212	28	83	55	77	90		
	16480	11900	6759	4070	3029	1414	1967	1648		

Table J.6 Total catch (tonnes) by brake horsepower (BHP) and year

BHP	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<1000	10	470	174		62	10		0		
1000-1199	835	147	636	437	106	88	78	61		
1200-1399	50	607	242			0				
1400-1599	1172	688	329	127	195	105	210	116		
1600-1799	580	648	35	1	62	48	44	41		
1800-1999	4885	4553	2337	1926	1035	654	875	758		
2000-2499	2390	2069	247	431	199	73	283	172		
2500-2999	3440	2073	1699	743	1058	300	395	317		
3000-3999	2465	439	531	81	210	77	5	91		
≥4000	652	207	529	324	103	59	76	92		
	16480	11900	6759	4070	3029	1414	1967	1648		

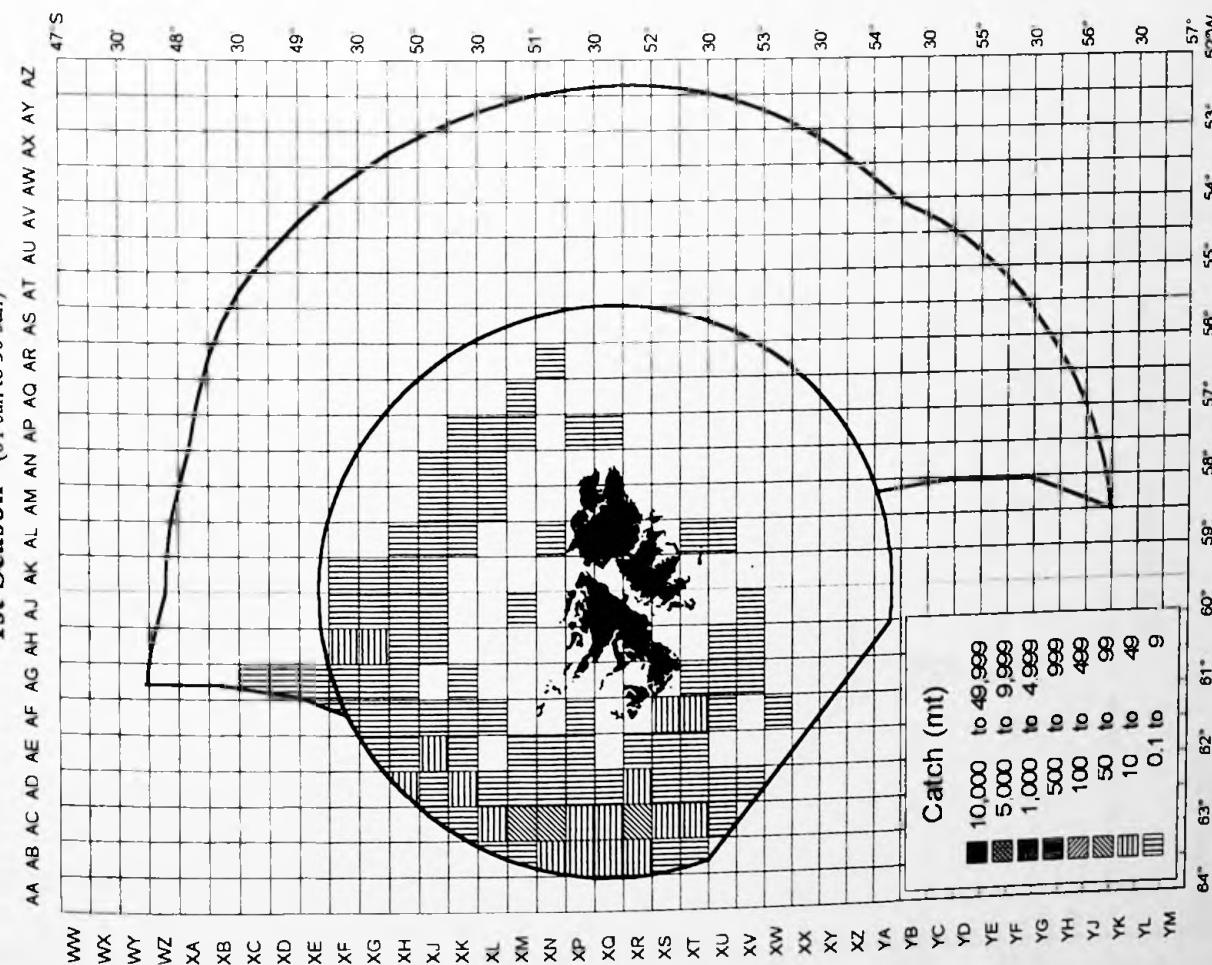
Merluccius spp. - Hakes

1995 *Merluccius spp.*

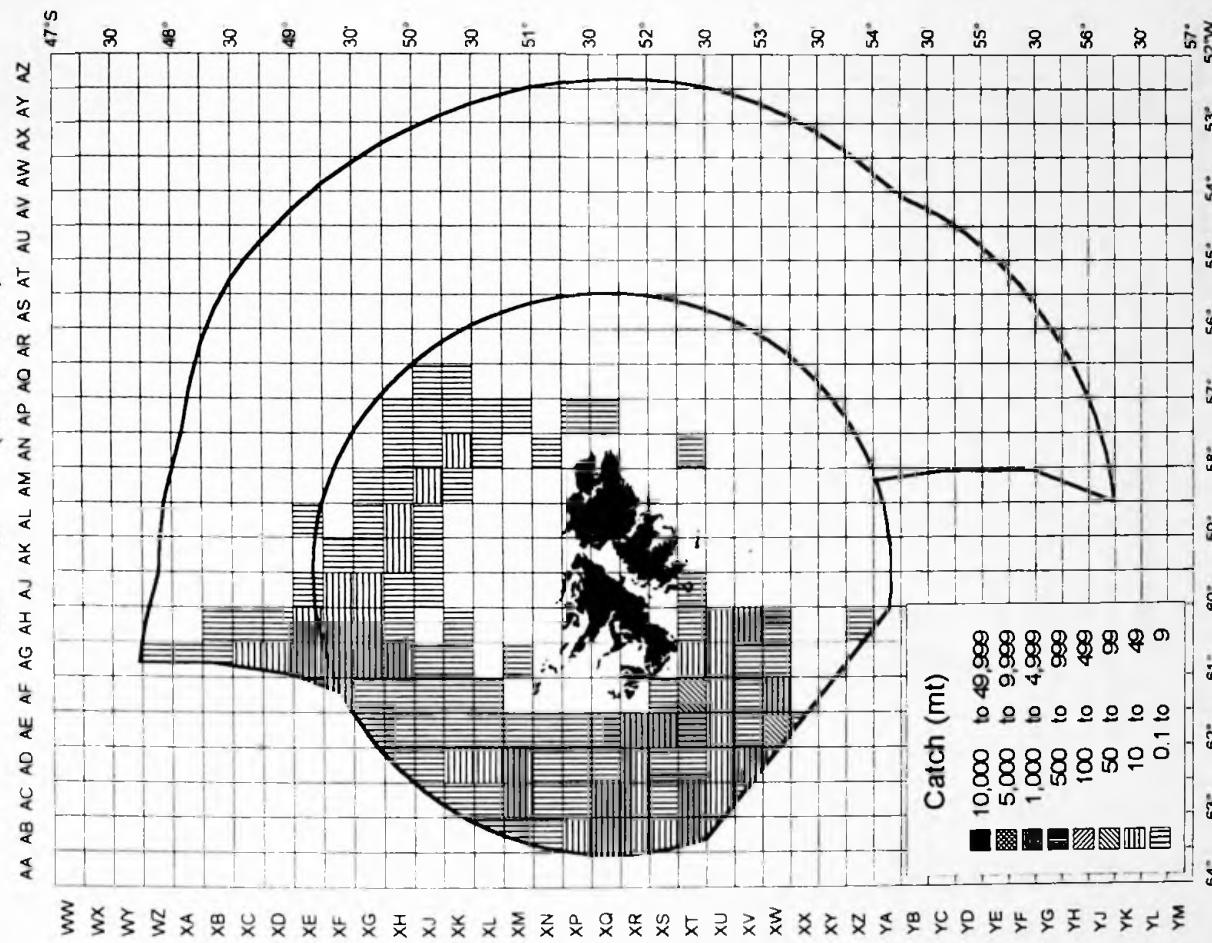
FICZ and FO CZ

Catch (mt) by grid square

1st Season (01 Jan to 30 Jun)



2nd Season (01 Jul to 31 Dec)

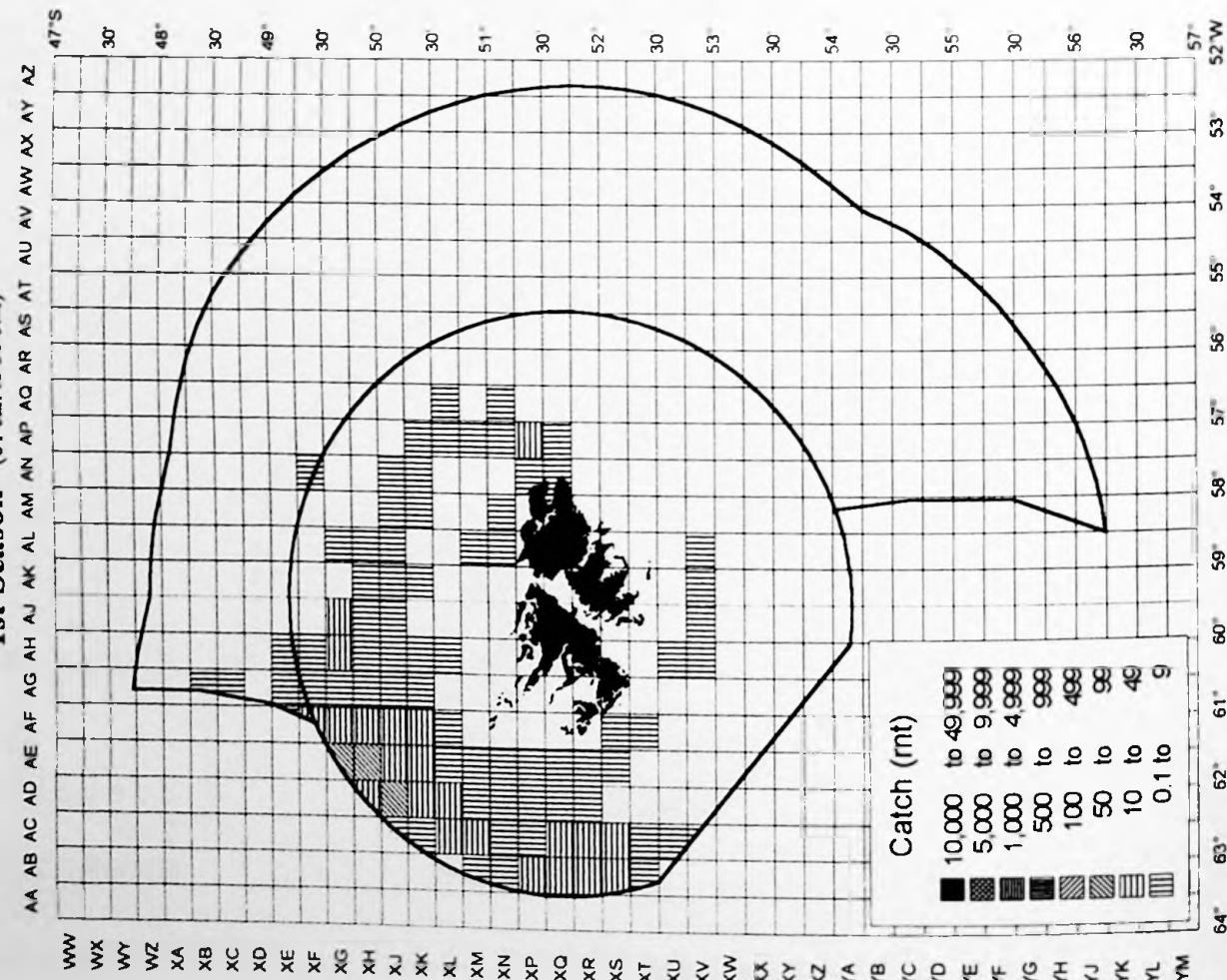


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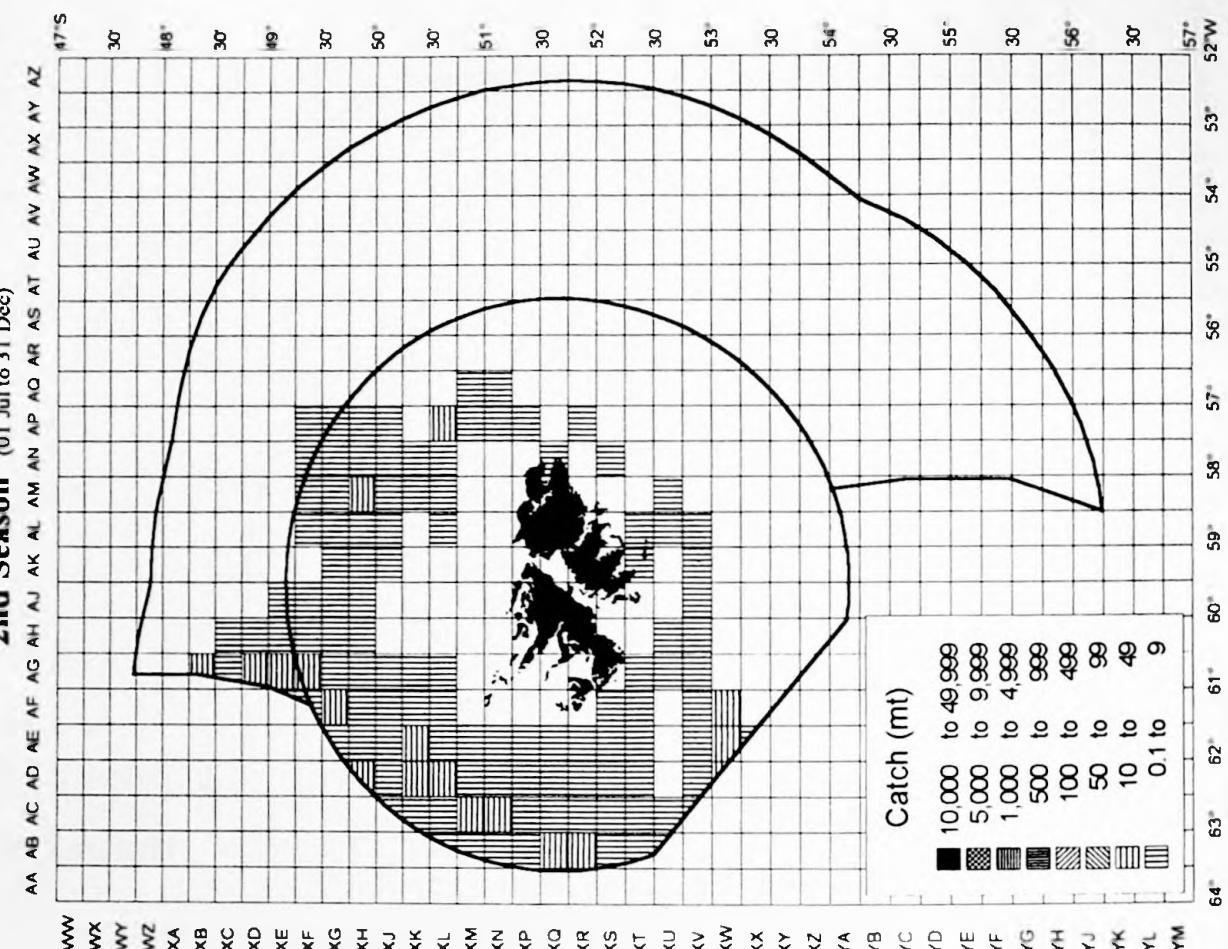
1996

Merluccius spp.

1st Season (01 Jun to 30 Jun)



2nd Season (01 Jul to 31 Dec)



Merluccius spp. - Hakes

Rajidae - Skates and rays

Table K.1 Total catch (tonnes) by vessel type and year

VESSEL TYPE	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
CO	6	29	456	1043	12	1379	1296	14		
LO				3	2	15	46	315		
TR	1743	1471	6467	7063	8509	4146	3946	3141		
	1749	1500	6923	8108	8523	5540	5288	3470		

Table K.2 Total catch (tonnes) by month and year

MONTH	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
January			9	78	65	1045	11	28		
February	16	29	71	129	131	275	15	12		
March	0	89	91	147	57	65	43	85		
April	14	73	55	53	58	85	38	53		
May	18	59	13	8	102	63	259	15		
June	4	34	3	7	23	308	397	182		
July	106	85	274	17	1085	864	969	320		
August	506	349	1229	3520	2012	1327	1669	1103		
September	666	457	1558	2218	1962	833	860	651		
October	414	270	1446	1089	1700	304	755	597		
November	4	39	1543	826	1079	158	167	227		
December	1	14	631	17	250	213	105	199		
	1749	1500	6923	8108	8523	5540	5288	3470		

Table K.3 Total catch (tonnes) by fishing fleet and year

Fishing fleet	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
BG	1									
CL	2				3	19	16	9		
ES	695	791	1070	1223	838	469	395	225		
FK	6	0	5	32	98	63	121	183		
FR						20	5	9		
GR	4	1								
HN			1388	1148	1948	876	615	460		
IS								2		
IT	0	2		40	88	33	1			
JP	7	4	0		1		5	8		
KR	963	672	2484	4122	4417	3663	3989	2122		
NO		3						273		
PA			1962	1257	611	372	85	170		
PL		1	0	6	23					
PT	24	26	13	13	11	16	50	10		
RU						0				
SL				265	441	10				
UK	47	0	1		29	3	12	8		
	1749	1500	6923	8108	8523	5540	5288	3470		

Rajidae - Skates and rays

Table K.4 Total catch (tonnes) by gross registered tonnage (GRT) and year

GRT	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<400	117		3861	2825	2157	1556	934	847		
400-599	43	734	284	711	855	446	740	99		
600-799	12	13	23	360	1359	106	560	394		
800-999	947	81	1516	2833	2605	2241	1617	1414		
1000-1499	280	349	957	816	469	610	1221	536		
1500-1999	213	260	131	475	183	102	155	119		
2000-2999	110	42	151	88	895	479	56	53		
≥3000	28	20	0		1		5	8		
	1749	1500	6923	8108	8523	5540	5288	3470		

Table K.5 Total catch (tonnes) by length overall (m) (LOA) and year

LOA	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<45	1	27	83	50	72	16	4	275		
45-49	22	44	109	276	188	105	87	24		
50-54	213	812	3382	5045	4830	2851	3574	2283		
55-59	936	50	2681	1633	1857	1477	588	306		
60-64	132	30	45	506	303	402	778	359		
65-69	118	281	163	192	63	44	76	44		
70-79	206	209	406	323	382	201	163	148		
80-89	82	41	42	80	819	432	5	16		
≥90	39	4	12	1	8	12	14	15		
	1749	1500	6923	8108	8523	5540	5288	3470		

Table K.6 Total catch (tonnes) by brake horsepower (BHP) and year

BHP	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<1000	2	14	15		29	12	8	275		
1000-1199	92	60	74	339	181	29	60	26		
1200-1399	3	29	59	3			37	41		
1400-1599	34	109	155	116	171	59	93	22		
1600-1799	2	71	39	6	35	43	34	29		
1800-1999	444	266	1539	1576	1864	867	1224	443		
2000-2499	92	798	1413	3326	1637	1187	2145	992		
2500-2999	984	107	3538	2655	3774	2896	1654	1603		
3000-3999	65	26	53	14	811	434	25	26		
≥4000	31	20	37	74	21	13	8	14		
	1749	1500	6923	8108	8523	5540	5288	3470		

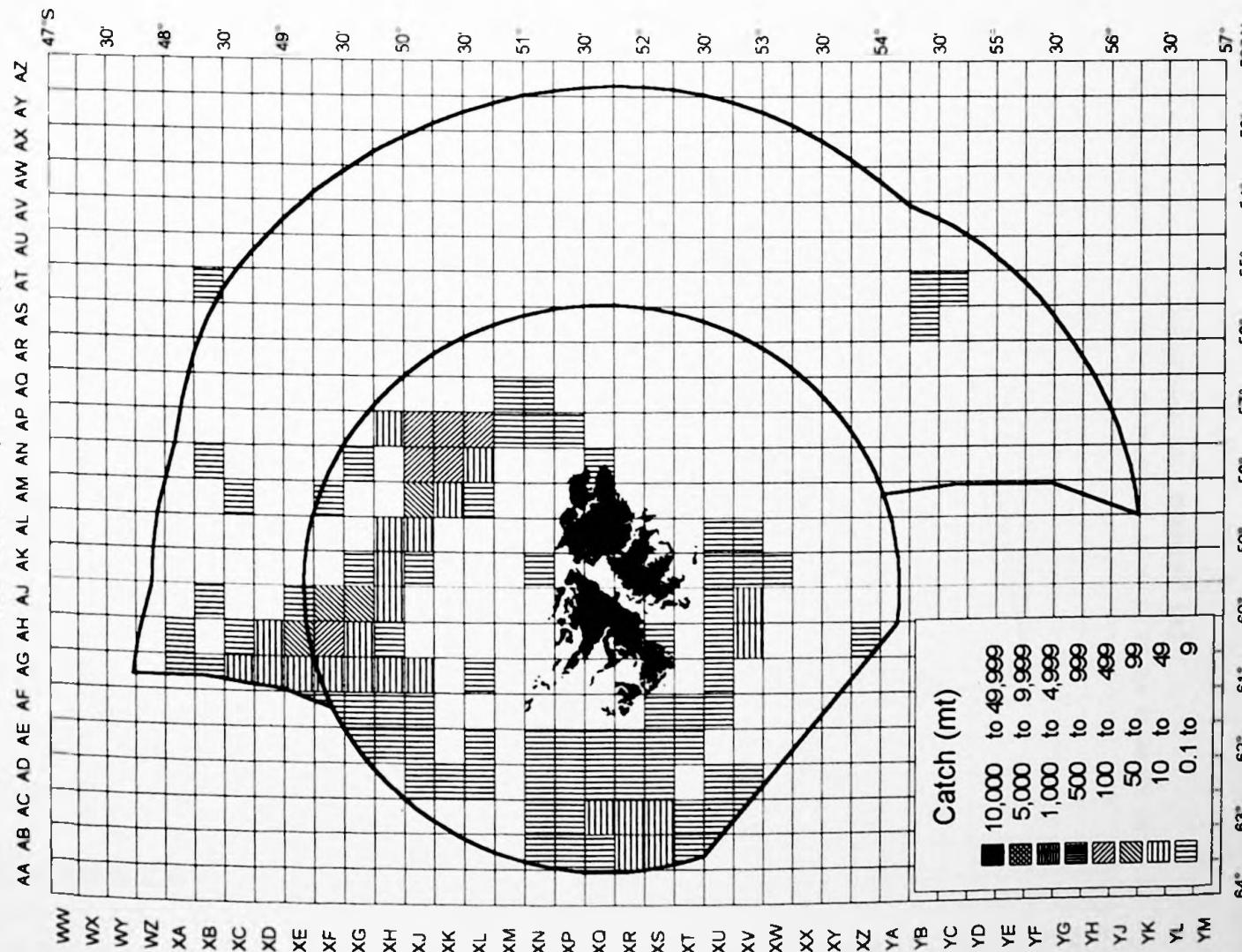
1994

Rajidae

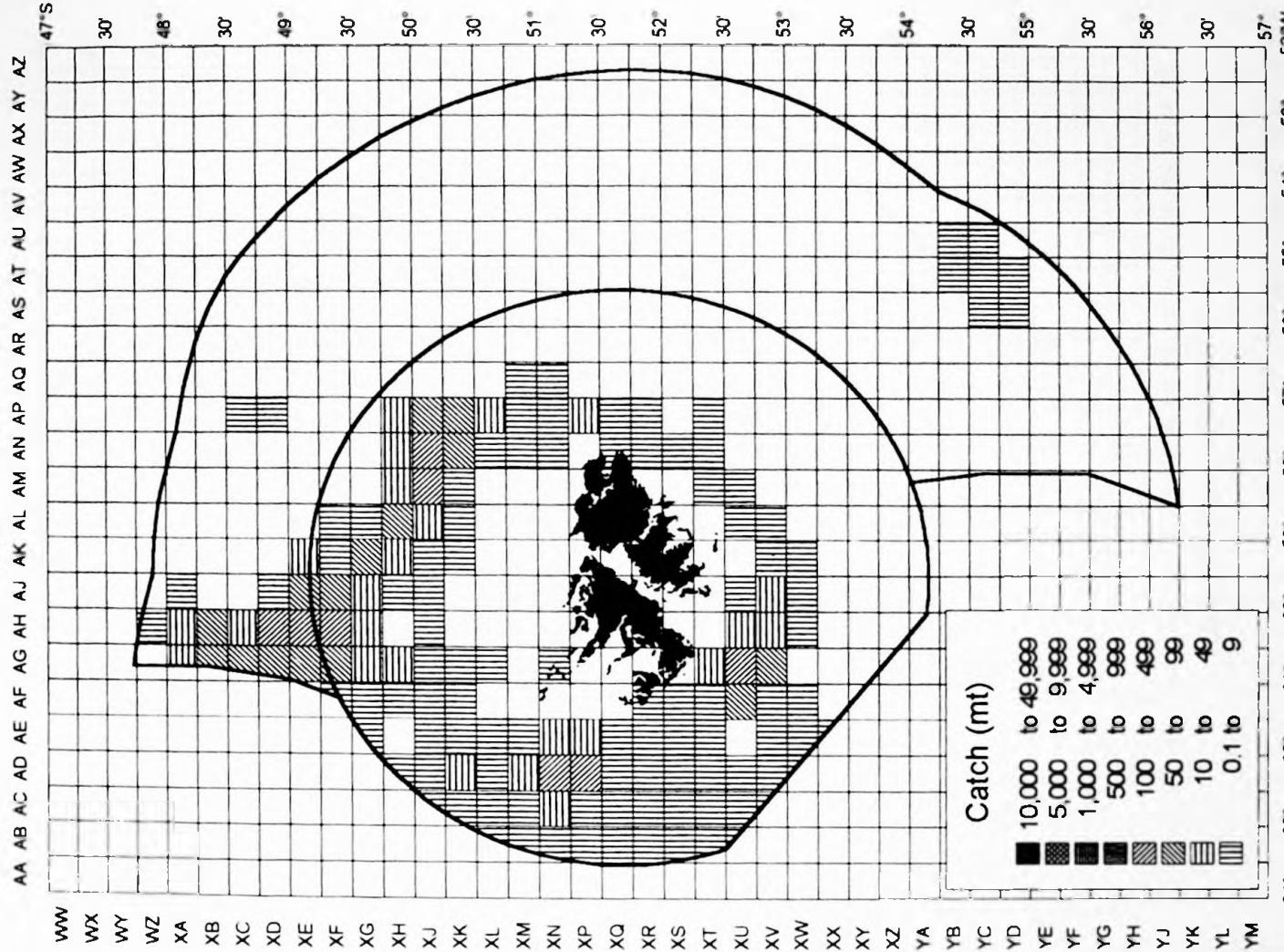
FICZ and FOCZ

Catch (mt) by grid square

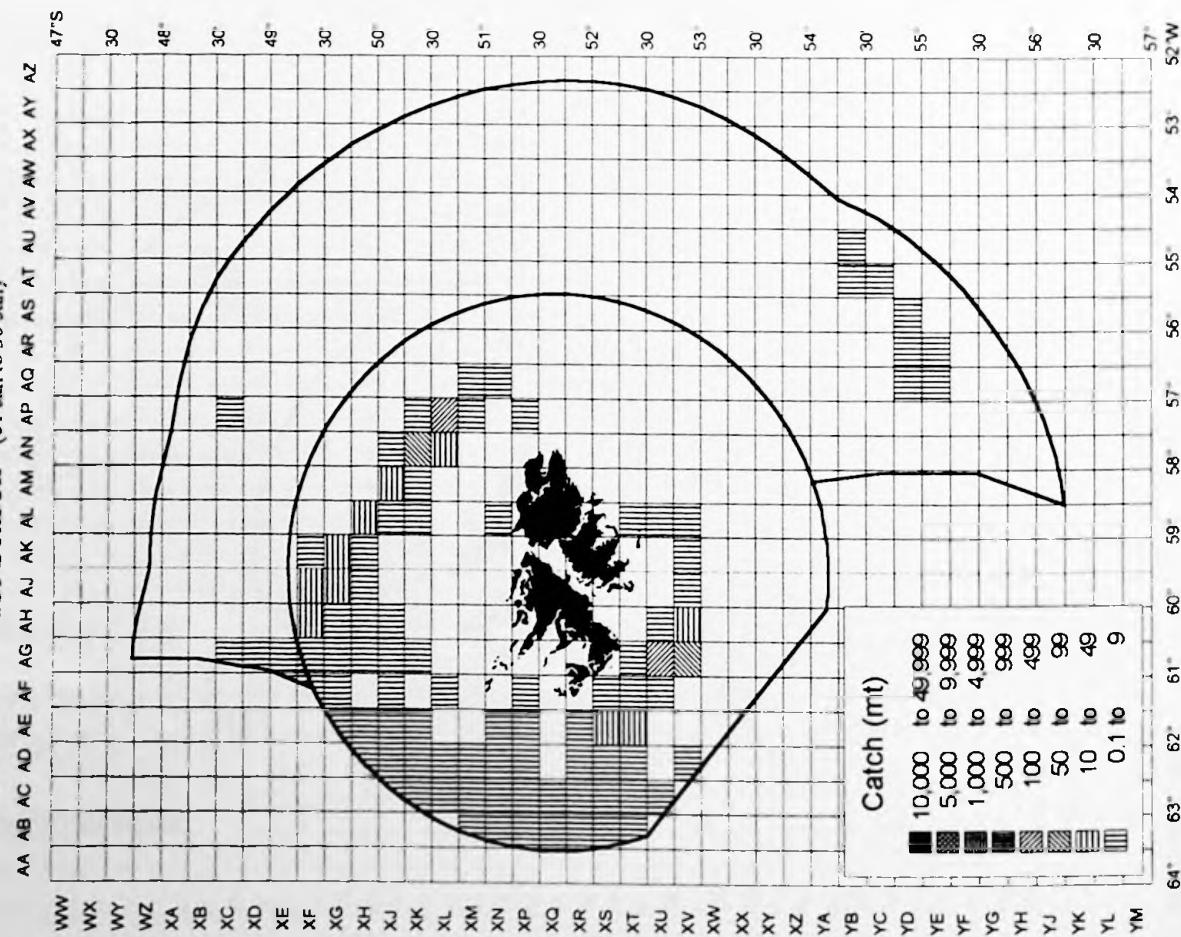
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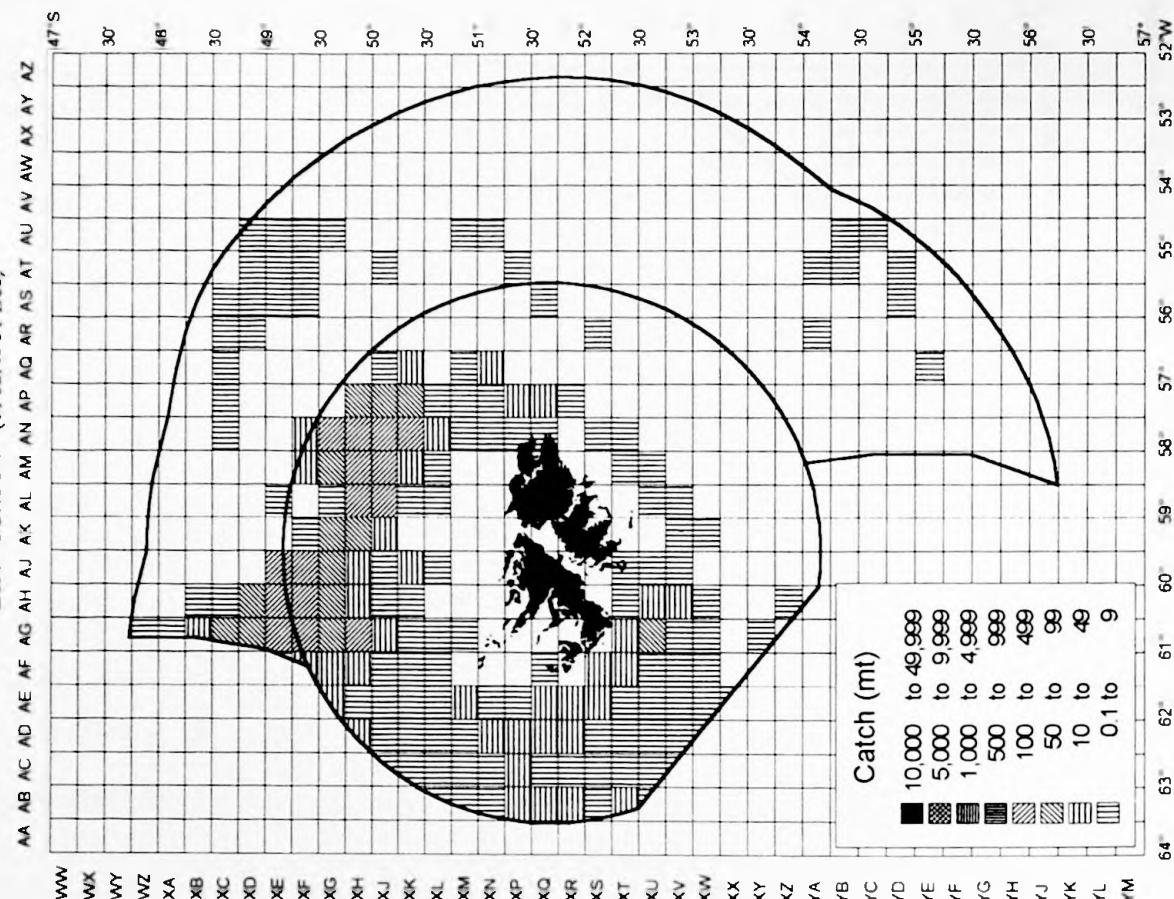
2nd Season (01 Jul to 31 Dec)



1st Season (01 Jan to 30 Jun)



2nd Season (01 Jul to 31 Dec)

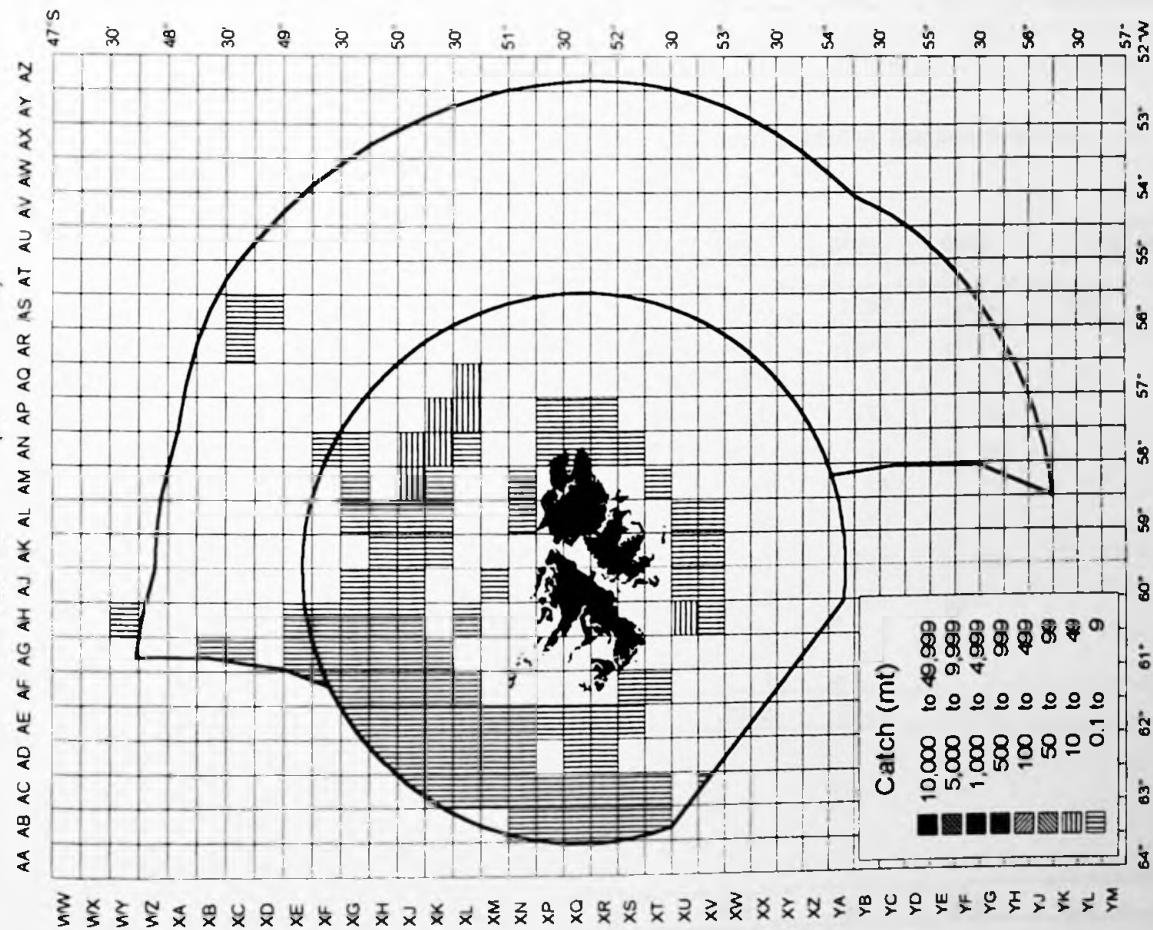


1996

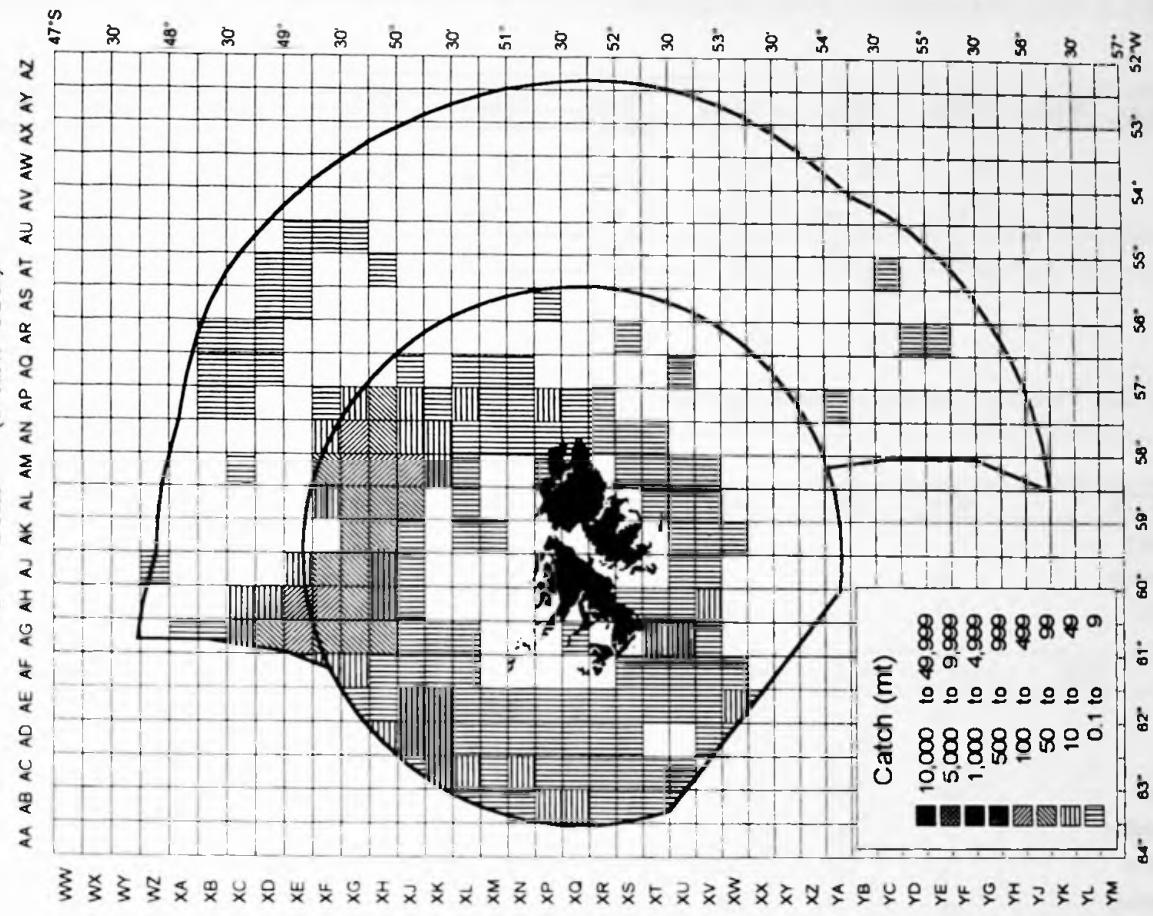
Rajidae

FICZ and FOCZ

1st Season (01 Jan to 30 Jun)



2nd Season (01 Jul to 31 Dec)



Dissostichus eleginoides - Patagonian toothfish

Table L.1 Total catch (tonnes) by vessel type and year

VESSEL TYPE	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
CO	7	0	3	24		3	21	1		
LO				120	8	2733	1746	513		
TR	229	208	978	767	385	227	308	174		
	236	208	980	912	393	2963	2075	688		

Table L.2 Total catch (tonnes) by month and year

MONTH	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
January				27	33	57	315	26		
February	0	44	24	77	35	25	183	12		
March	1	3	60	113	15	11	123	14		
April	2	2	33	87	29	218	221	14		
May		10	8	44	40	366	214	4		
June	3	0		3	9	457	91	9		
July	8	1	22	0	7	435	47	7		
August	40	74	186	145	41	230	185	107		
September	4	42	411	241	50	198	211	136		
October	1	21	108	53	71	295	154	136		
November	81	4	108	113	48	397	187	107		
December	96	7	18	9	14	274	144	116		
	236	208	980	912	393	2963	2075	688		

Table L.3 Total catch (tonnes) by fishing fleet and year

Fishing fleet	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
BG	180	2								
CL				120	2	2733	1311	1		
ES	1	201	972	626	259	147	191	79		
FK				0	11	18	36	50		
FR						0	1	3		
GR	3									
HN			0	22	30	5	26	7		
IS								130		
IT				21	23	23	1			
JP	50	2	0	0	2	0	0	1		
KR			3	90	54	31	490	386		
NO		2						29		
PA			4	22	7	3	9			
PL				0						
PT		1	0	3	1		8	1		
SL				8	2	0				
UK	3		1		2	1	1	1		
	236	208	980	912	393	2963	2075	688		

***Dissostichus eleginoides* - Patagonian toothfish**

Table L.4 Total catch (tonnes) by gross registered tonnage (GRT) and year

GRT	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<400			3	50	40	6	456	385		
400-599		26	144	243	58	2424	1185	137		
600-799		6	43	123	32	343	176	27		
800-999	0	32	146	168	40	42	84	27		
1000-1499	4	72	493	174	113	121	91	59		
1500-1999	3	66	48	114	50	9	53	23		
2000-2999	185	3	103	40	57	18	29	28		
≥3000	45	2	0	0	2	0	0	1		
	236	208	980	912	393	2963	2075	688		

Table L.5 Total catch (tonnes) by length overall (m) (LOA) and year

LOA	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<45		0	164	84	18	958	8	159		
45-49		36	95	246	42	1815	985	12		
50-54	0	27	105	167	103	53	873	395		
55-59		4	34	111	47	27	61	34		
60-64		0	35	112	30	28	50	24		
65-69		0	70	312	76	6	4	41	12	
70-79	7	67	220	78	125	69	52	49		
80-89	184	2	5	36	17	8	3	1		
≥90	45	2	12	1	5	1	2	1		
	236	208	980	912	393	2963	2075	688		

Table L.6 Total catch (tonnes) by brake horsepower (BHP) and year

BHP	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<1000			33	6	2	1464	1166	159		
1000-1199		27	95	218	40	965	24	18		
1200-1399		14	111	95			435	354		
1400-1599		24	93	136	44	39	42	10		
1600-1799			155	0	19	11	23	8		
1800-1999	0	87	369	237	127	99	109	59		
2000-2499	6	42	9	78	10	321	191	23		
2500-2999	4	10	87	102	124	54	81	53		
3000-3999	209	2	23	4	14	8	3	2		
≥4000	18	2	5	36	13	1	1	1		
	236	208	980	912	393	2963	2075	688		

***Dissostichus eleginoides* - Patagonian toothfish**

Table L.7 Total catch (tonnes) of combination vessels by gross registered tonnage (GRT) and year

GRT	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<400						3	2	1		
800-999				11			16			
1000-1499			3	13			2			
1500-1999	3	0								
2000-2999	2									
≥3000	2									
	7	0	3	24		3	21	1		

Table L.8 Total catch (tonnes) of combination vessels by length overall (m) (LOA) and year

LOA	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
50-54				3	24		17	0		
55-59						3	4	0		
70-79	3	0								
80-89	2									
≥90	2									
	7	0	3	24		3	21	1		

Table L.9 Total catch (tonnes) of combination vessels by brake horsepower (BHP) and year

BHP	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
1800-1999							2	0		
2000-2499				3	24		2			
2500-2999	3					3	17	0		
3000-3999	2	0								
≥4000	2									
	7	0	3	24		3	21	1		

Table L.10 Total catch (tonnes) of longliners by gross registered tonnage (GRT) and year

GRT	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<400					8		435	383		
400-599				101		2418	1166	130		
600-799				3		315	145			
800-999				17						
				120	8	2733	1746	513		

***Dissostichus eleginoides* - Patagonian toothfish**

Table L.11 Total catch (tonnes) of longliners by length overall (m) (LOA) and year

LOA	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<45				3		956	8	159		
45-49				98		1778	943			
50-54					8		794	354		
55-59				19						
				120	8	2733	1746	513		

Table L.12 Total catch (tonnes) of longliners by brake horsepower (BHP) and year

BHP	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<1000				6		1463	1166	159		
1000-1199				3		956				
1200-1399				95			435	354		
1400-1599				17						
1600-1799					8					
2000-2499						315	145			
				120	8	2733	1746	513		

Table L.13 Total catch (tonnes) of trawlers by gross registered tonnage (GRT) and year

GRT	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<400			3	50	32	3	19	2		
400-599		26	144	142	58	5	19	7		
600-799		6	43	120	32	28	31	27		
800-999	0	32	146	140	40	42	68	27		
1000-1499	4	72	490	161	113	121	88	59		
1500-1999		66	48	114	50	9	53	23		
2000-3999	183	3	103	40	57	18	29	28		
≥3000	42	2	0	0	2	0	0	1		
	229	208	978	767	385	227	308	174		

***Dissostichus eleginoides* - Patagonian toothfish**

Table L.14 Total catch (tonnes) of trawlers by length overall (m) (LOA) and year

LOA	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<45		0	164	81	18	3	0			
45-49		36	95	148	42	37	41	12		
50-54	0	27	102	143	95	53	61	41		
55-59		4	34	92	47	24	57	34		
60-64	0		35	112	30	28	50	24		
65-69	0	70	312	76	6	4	41	12		
70-79	4	67	220	78	125	69	52	49		
80-89	183	2	5	36	17	8	3	1		
≥90	42	2	12	1	5	1	2	1		
	229	208	978	767	385	227	308	174		

Table L.15 Total catch (tonnes) of trawlers by brake horsepower (BHP) and year

BHP	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<1000			33		2	1				
1000-1199		27	95	216	40	10	24	18		
1200-1399		14	111							
1400-1599		24	93	120	44	39	42	10		
1600-1799			155	0	11	11	23	8		
1800-1999	0	87	369	237	127	99	108	58		
2000-2499	6	42	6	54	10	6	43	23		
2500-2999	1	10	87	102	124	51	64	53		
3000-3999	207	2	23	4	14	8	3	2		
≥4000	15	2	5	36	13	1	1	1		
	229	208	978	767	385	227	308	174		

1994

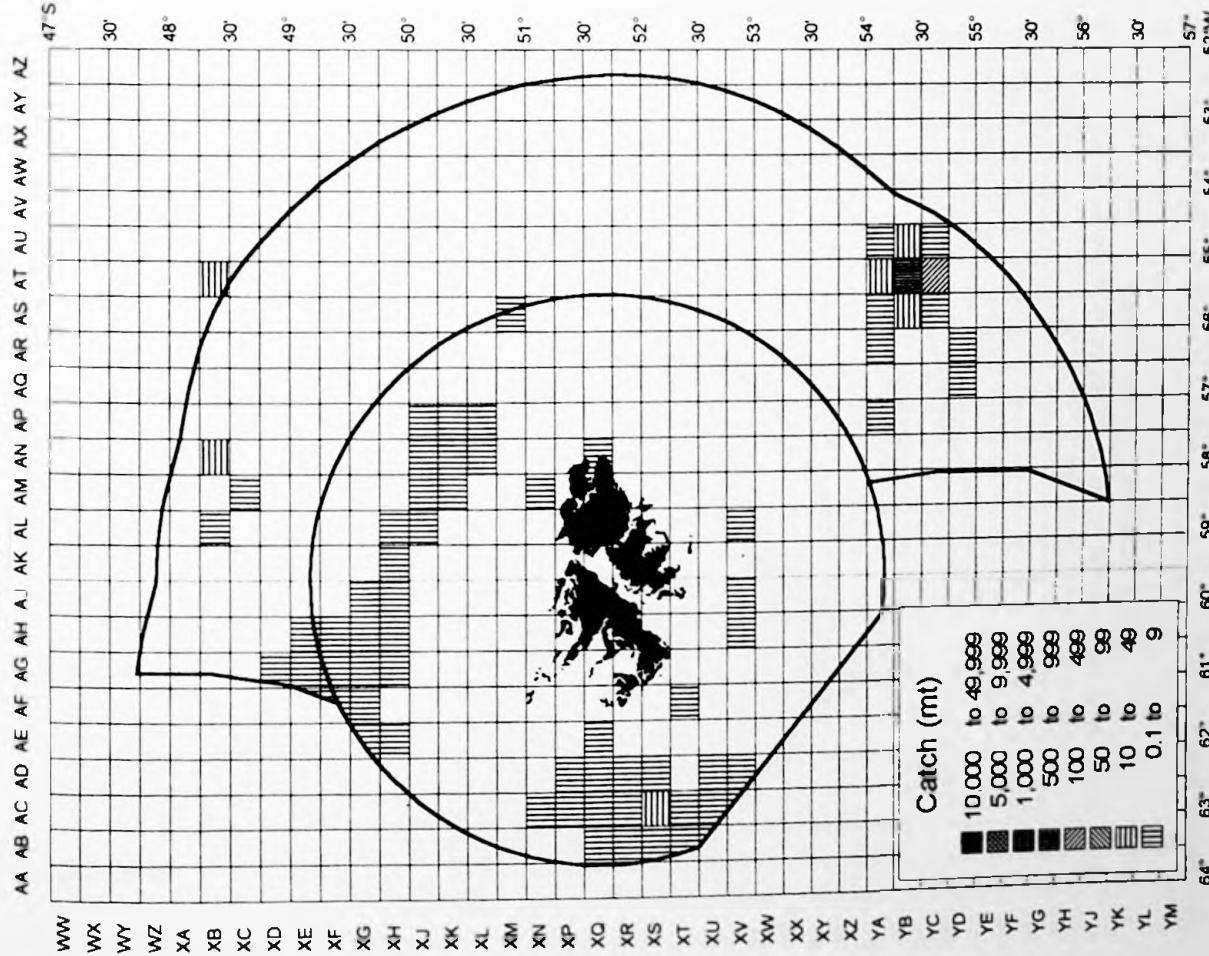
Dissostichus eleginoides

FICZ and FO CZ

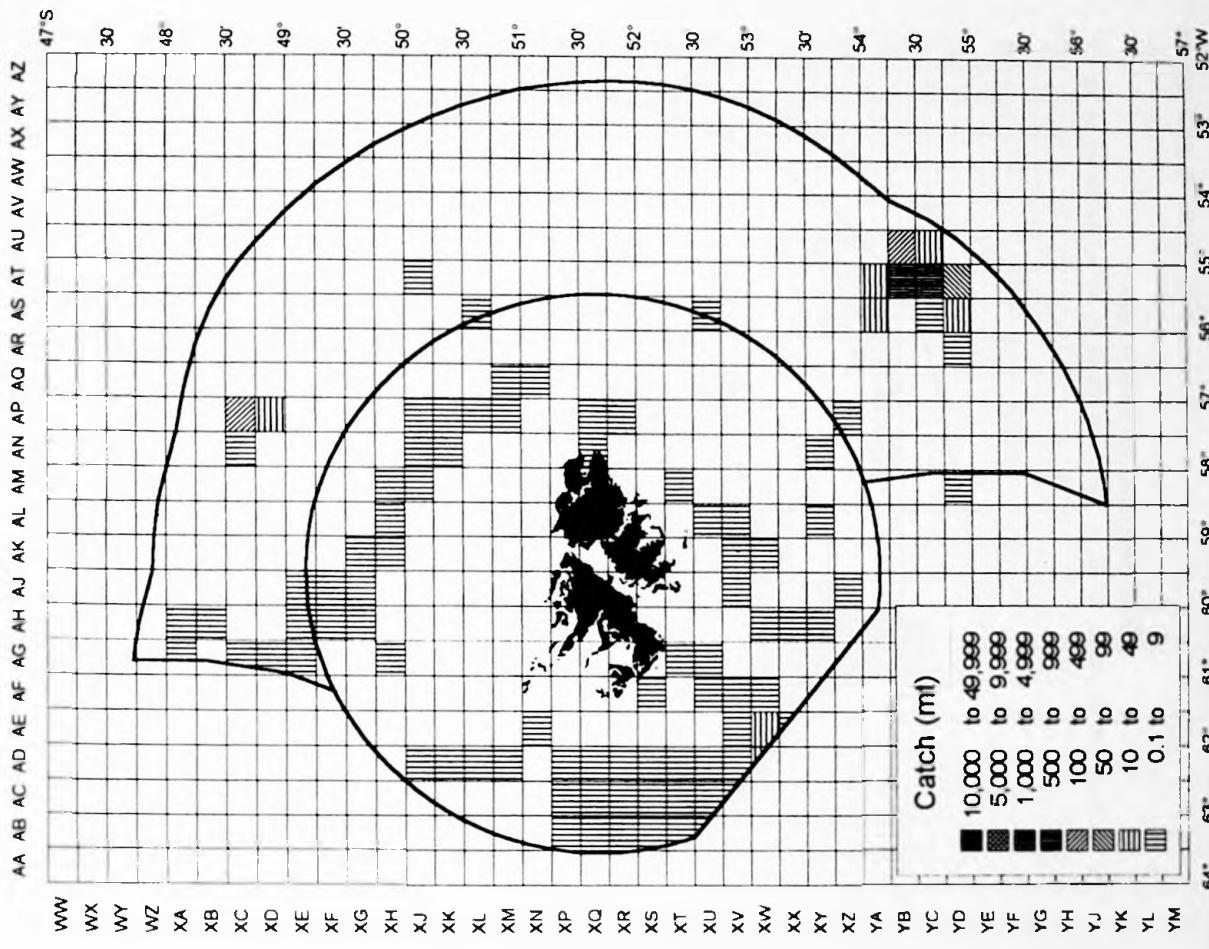
Catch (mt) by grid square

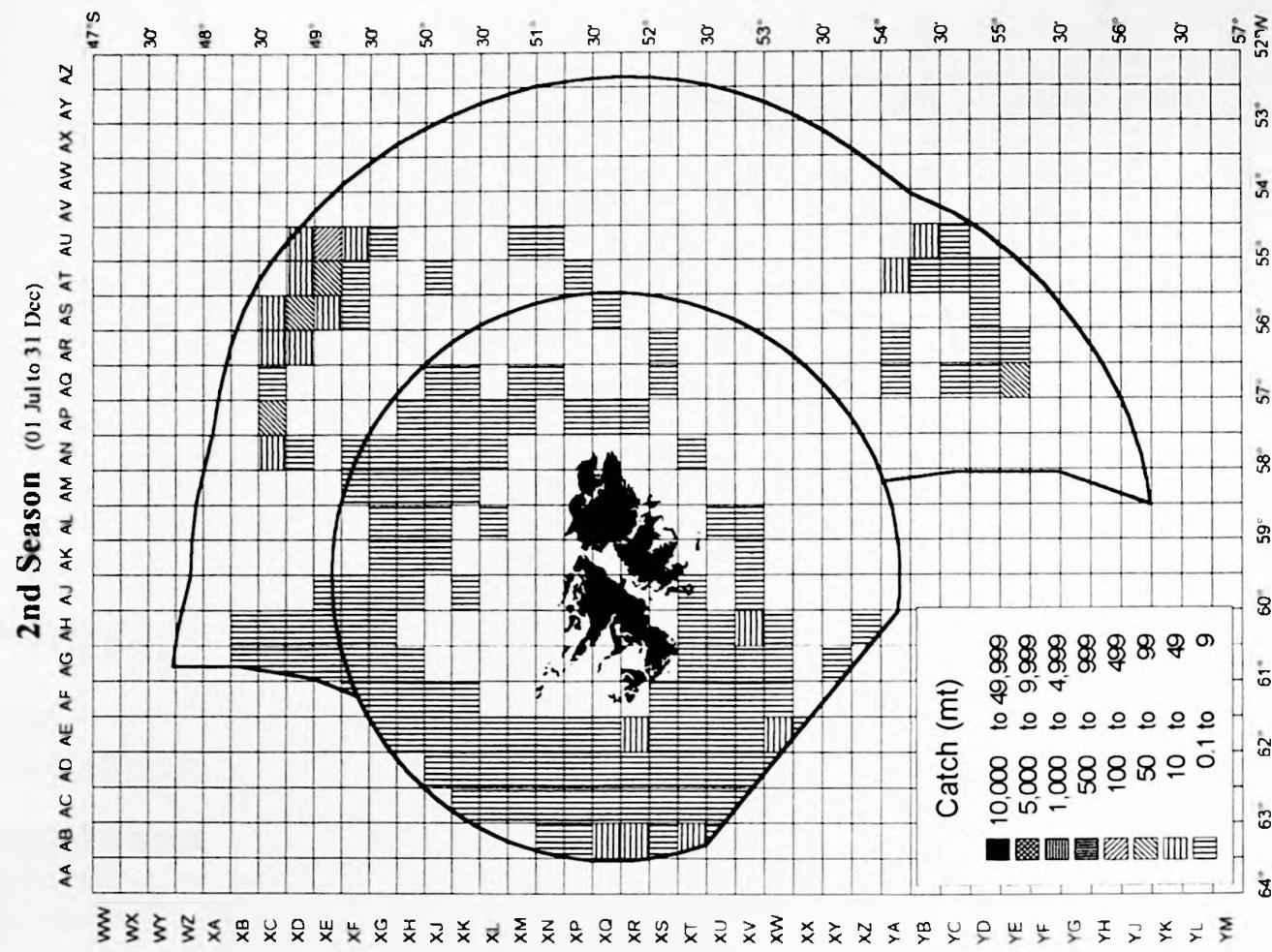
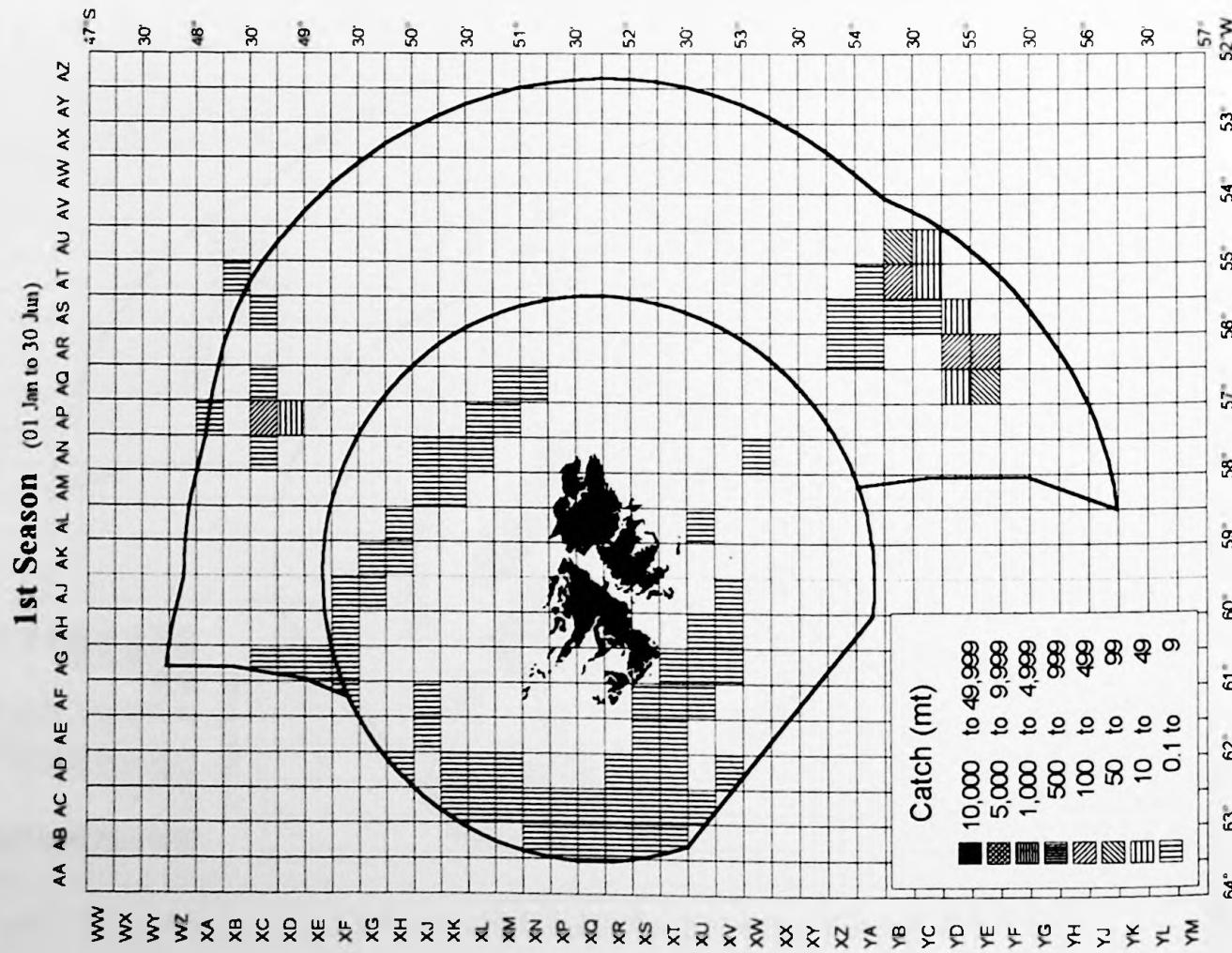
Dissostichus eleginoides - Patagonian toothfish

1st Season (01 Jan to 30 Jun)



2nd Season (01 Jul to 31 Dec)





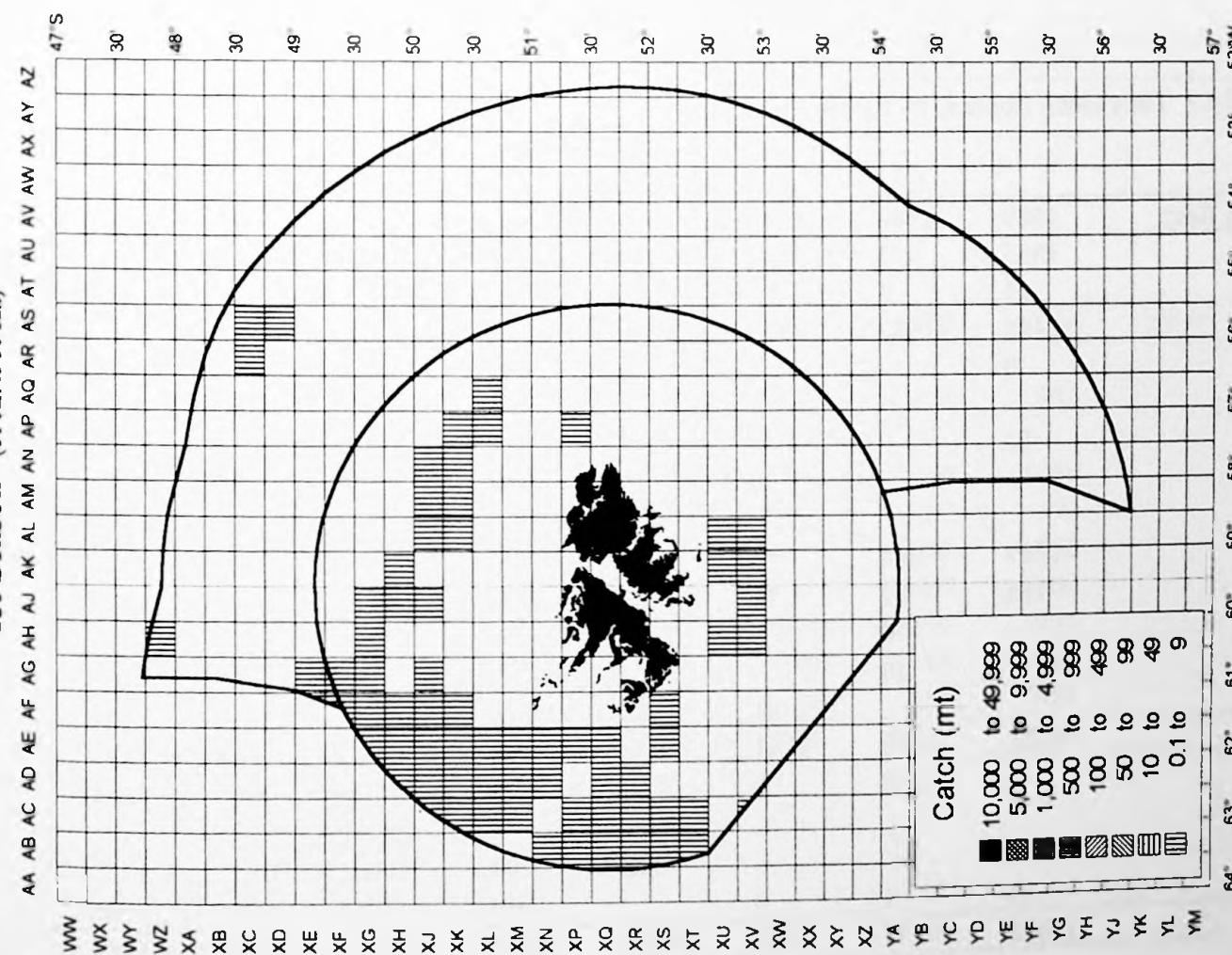
1996

Dissostichus eleginoides

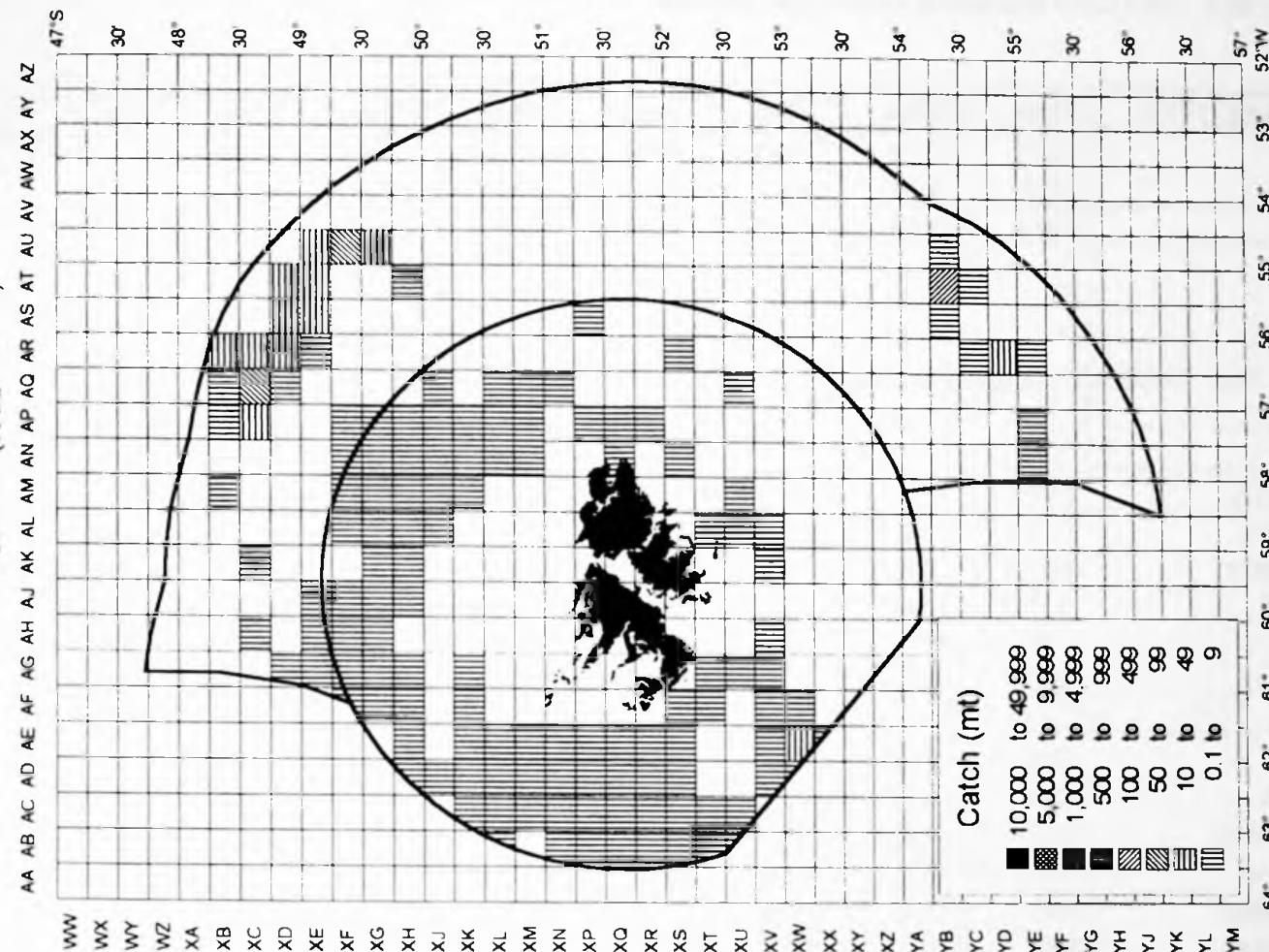
FICZ and FOCC

Catch (mt) by grid square

1st Season (01 Jan to 30 Jun)



2nd Season (01 Jul to 31 Dec)



Macruronus magellanicus - Hoki

Table M.1 Total catch (tonnes) by vessel type and year

VESSEL TYPE	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
CO	8145	3900	1088	1847	1	329	686	28		
TR	5168	3653	3411	12341	8505	9739	14725	13730		
	13313	7553	4499	14188	8506	10068	15411	13758		

Table M.2 Total catch (tonnes) by month and year

MONTH	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
January	2370		196	178	120	536	87	175		
February	2626	242	225	380	166	566	329	354		
March	155	1784	631	595	672	582	1993	3493		
April	75	2239	661	1297	707	388	2102	2073		
May	131	417	21	128	309	716	1930	742		
June	17	65	52	51	133	820	1027	586		
July	1866	517	391	77	136	688	1008	692		
August	457	429	407	760	437	430	1322	1157		
September	237	407	370	1364	689	1471	1267	587		
October	526	361	627	4664	2193	2554	1987	1859		
November	1785	370	746	4618	2445	702	1227	1545		
December	3069	720	171	76	499	616	1133	495		
	13313	7553	4499	14188	8506	10068	15411	13758		

Table M.3 Total catch (tonnes) by fishing fleet and year

Fishing fleet	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
BG	1883	913	40	44						
CL	1	5			2				1	
ES	425	1782	2973	5080	5608	6736	10601	7733		
FK	0			44	58	98	858	2549		
FR						114	15	29		
GR	73									
HN			57	940	251	797	1053	92		
IT				54	392	333	22			
JP	1217	288	6	14	409	18	554	544		
KR	115	87	71	4283	908	1359	1142	1888		
NL	0									
NO		28								
PA			61	1683	214	191	223	339		
PL	9565	4196	1281	1500	398	48		133		
PT	1	250	9	48	4	80	863	364		
RU						9				
SL				498	93	281				
UK	33	4	0		169	3	80	86		
	13313	7553	4499	14188	8506	10068	15411	13758		

Macruronus magellanicus - Hoki

Table M.4 Total catch (tonnes) by gross registered tonnage (GRT) and year

GRT	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<400	74		149	3858	291	363	926	484		
400-599		208	90	831	938	1159	585	311		
600-799	11	46	62	480	888	1491	878	1515		
800-999	52	246	396	3298	626	1121	1853	2048		
1000-1499	5039	3813	1963	1421	3098	4031	5026	4094		
1500-1999	143	975	492	2512	847	1325	4786	3645		
2000-2999	6945	1970	1341	1774	1408	561	803	982		
≥3000	1049	295	6	14	409	18	554	678		
	13313	7553	4499	14188	8506	10068	15411	13758		

Table M.5 Total catch (tonnes) by length overall (m) (LOA) and year

LOA	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<45		10	143	327	284	666	35			
45-49	11	249	260	469	486	796	1630	1287		
50-54	74	221	292	4266	2145	3558	1984	2861		
55-59	45	200	168	3481	1147	576	2219	2621		
60-64	11	5	142	1209	289	1052	2467	608		
65-69	1	168	451	493	767	1469	3046	1425		
70-79	5387	4491	2161	2166	2109	1634	3421	3904		
80-89	6567	1826	692	1623	653	207	51	364		
≥90	1218	384	189	155	626	108	557	687		
	13313	7553	4499	14188	8506	10068	15411	13758		

Table M.6 Total catch (tonnes) by brake horsepower (BHP) and year

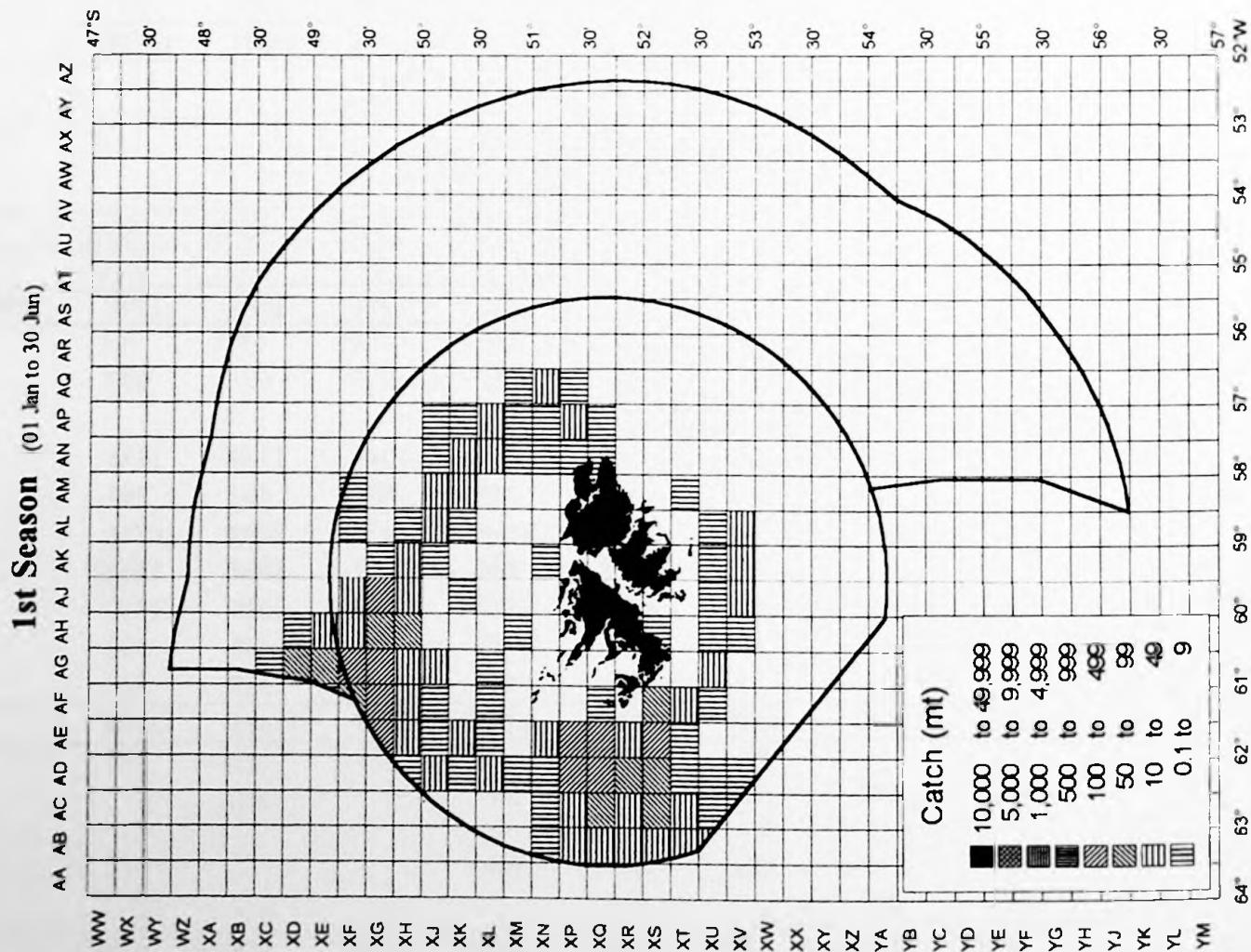
BHP	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<1000		1	71		169	3				
1000-1199		146	169	541	682	535	673	877		
1200-1399		140	12							
1400-1599	11	267	276	676	674	1019	1540	1156		
1600-1799		0	72	0	355	806	462	391		
1800-1999	124	919	1362	4019	3348	4639	7892	6756		
2000-2499	6000	2533	832	4128	434	1079	1607	1604		
2500-2999	3609	1925	1057	4047	1337	1610	2596	1837		
3000-3999	3068	1326	448	203	926	358	85	592		
≥4000	502	295	200	574	581	18	557	544		
	13313	7553	4499	14188	8506	10068	15411	13758		

FICZ and FOCZ

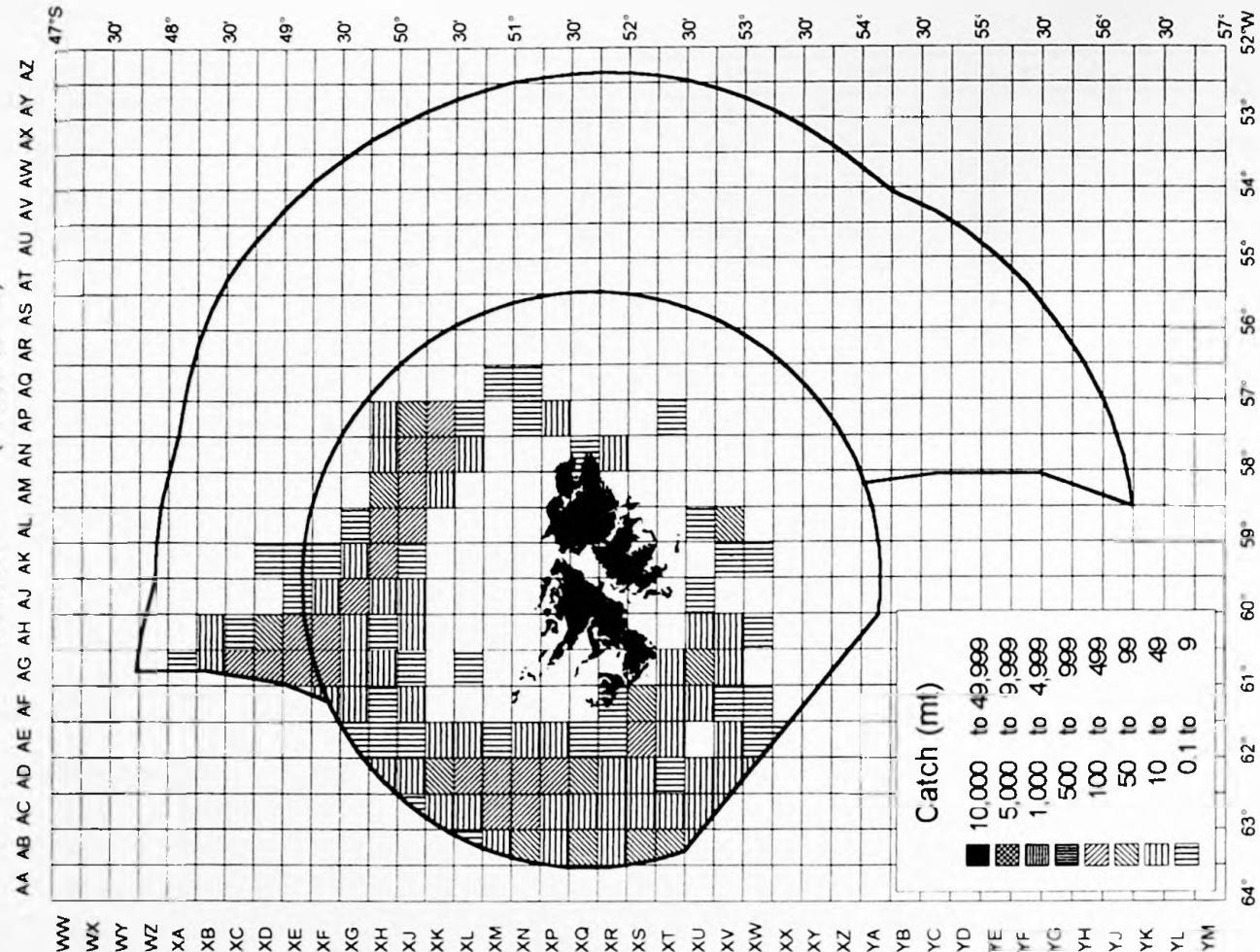
1994

Macruronus magellanicus

Catch (mt) by grid square



2nd Season (01 Jul to 31 Dec)



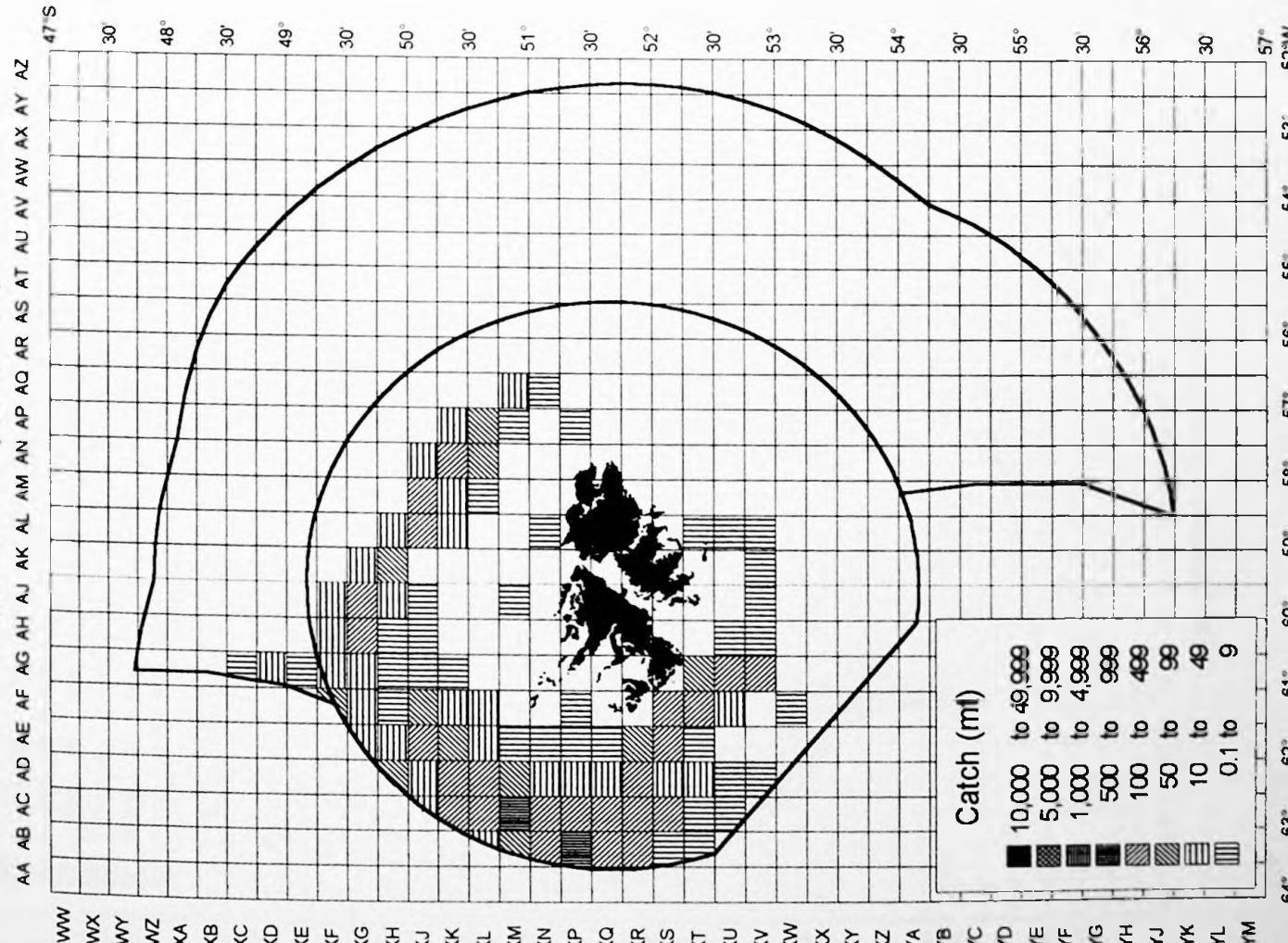
Macruronus magellanicus - Hoki

1995

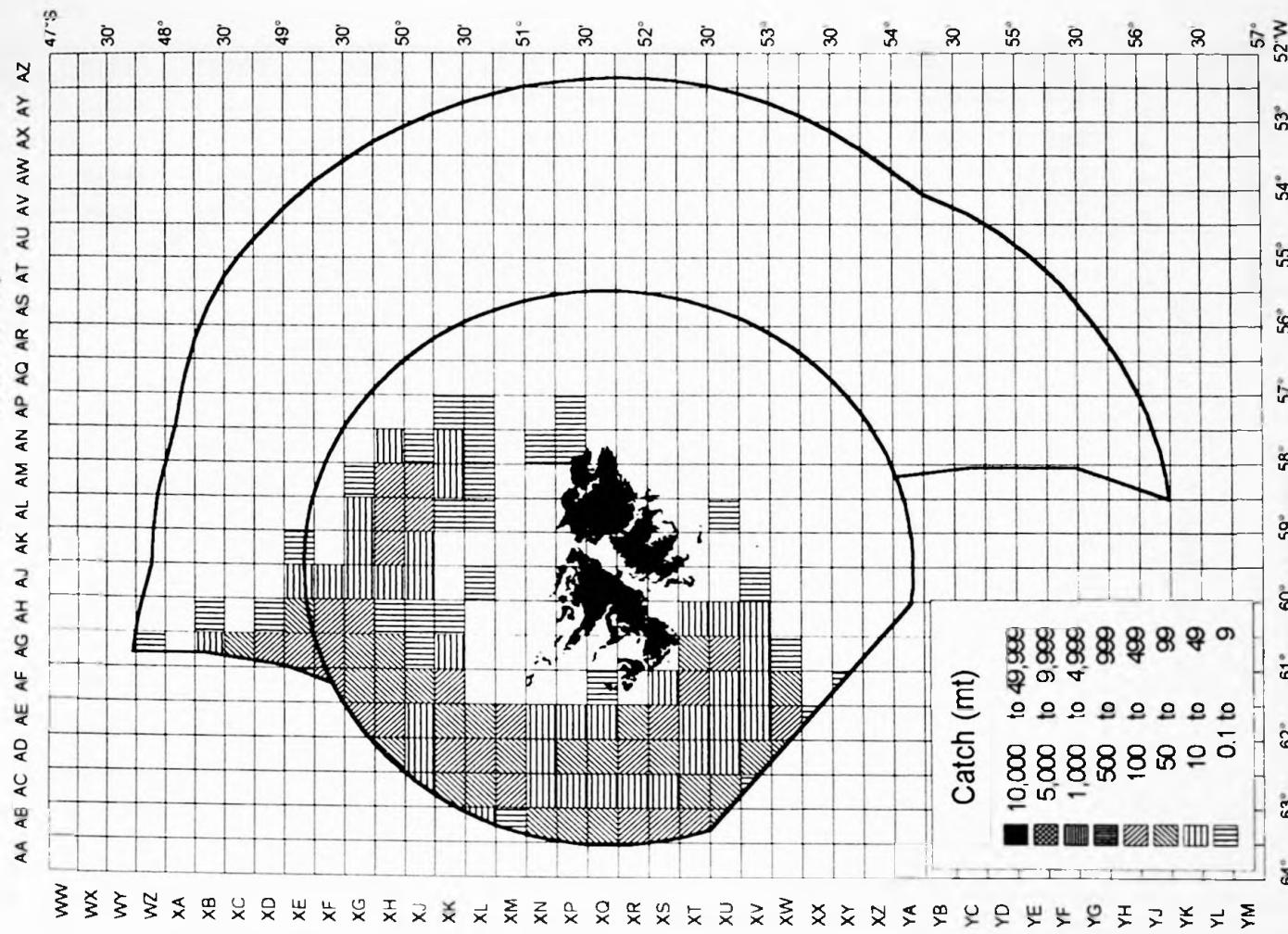
Macruronus magellanicus

FICZ and FOCZ

1st Season (01 Jan to 30 Jun)



2nd Season (01 Jul to 31 Dec)



Macruronus magellanicus - Hoki

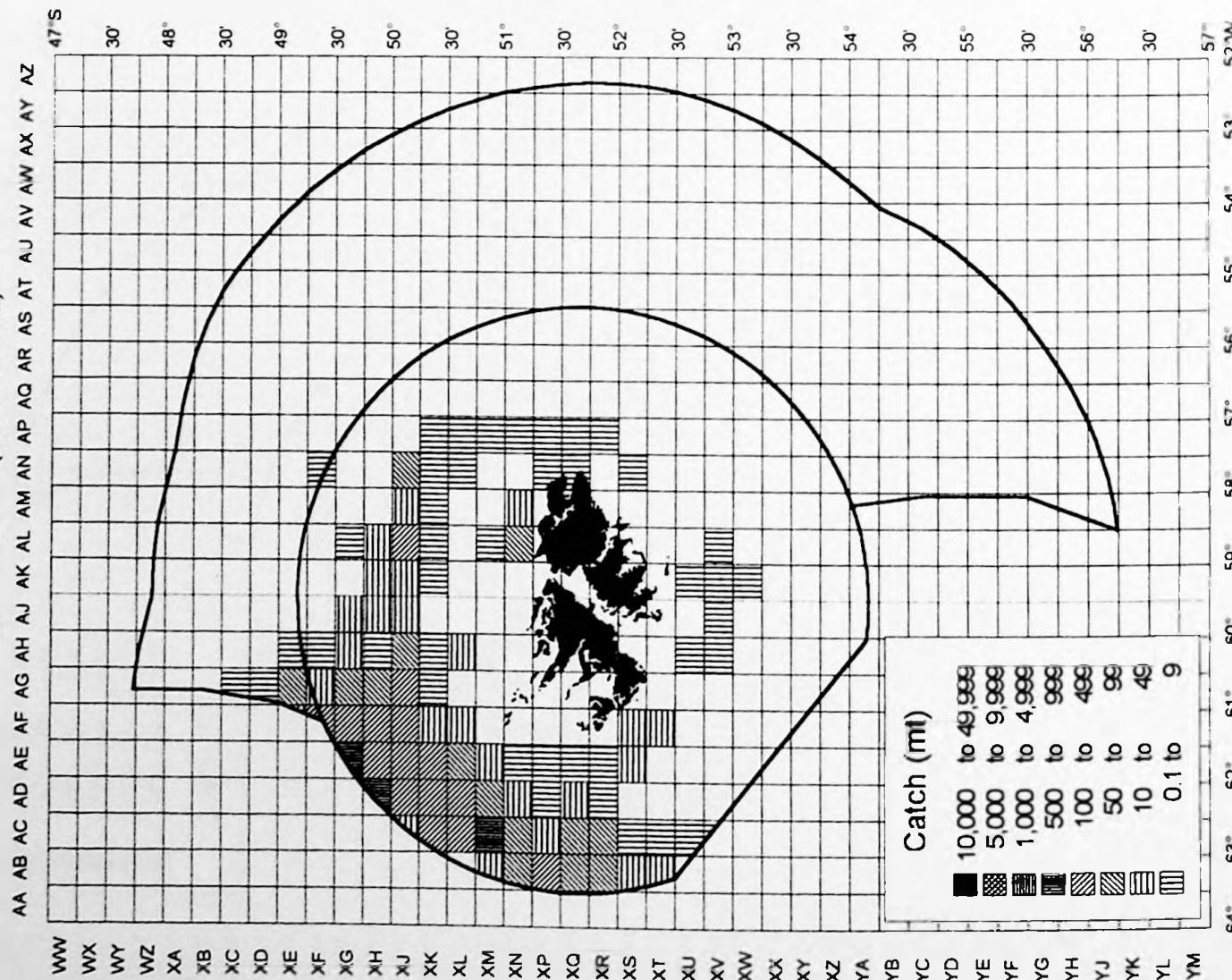
Catch (mt) by grid square

1996

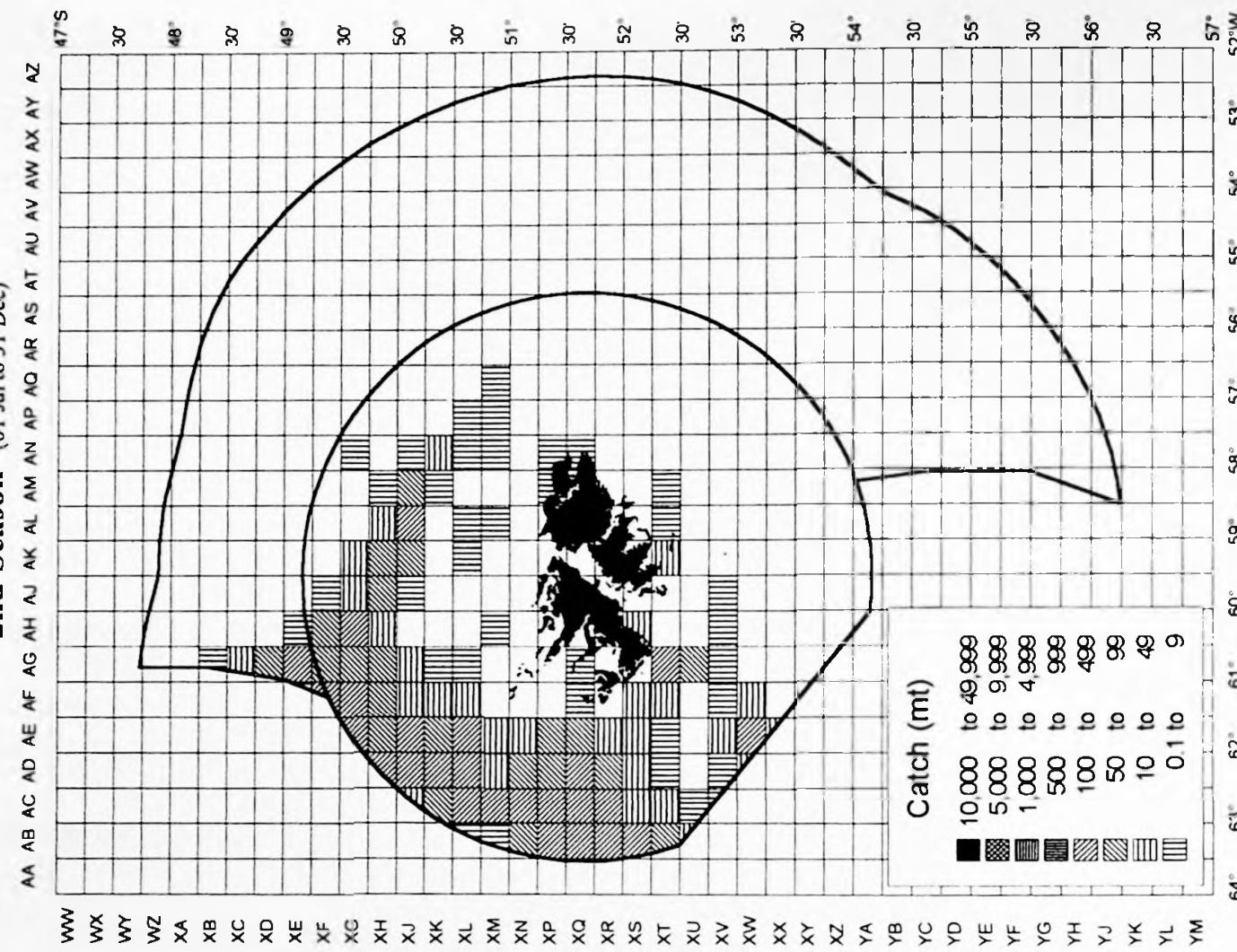
Macruronus magellanicus

Catch (mt) by grid square

1st Season (01 Jan to 30 Jun)



2nd Season (01 Jul to 31 Dec)



Others

Table N.1 Total catch (tonnes) by vessel type and year

VESSEL TYPE	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
CO	232	143	12	13			12			
LO				8		107	110	164		
TR	4804	1846	2305	1172	890	317	1310	1800		
	5036	1989	2317	1192	890	424	1431	1964		

Table N.2 Total catch (tonnes) by month and year

MONTH	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
January				36	7	9	17	17		
February	29		26	26	9	11	11	19		
March	13	81	42	40	1	10	64	137		
April	21	115	18	20	21	8	60	72		
May	2	54	1	1	8	29	22	19		
June	1			0	1	7	8	10		
July	142	1	29	3	1	11	24	16		
August	278	59	166	204	14	20	111	245		
September	23	24	330	406	107	40	145	773		
October	104	1	155	66	280	166	815	486		
November	2611	286	1414	376	430	99	126	113		
December	1813	1369	137	16	13	15	30	57		
	5036	1989	2317	1192	890	424	1431	1964		

Table N.3 Total catch (tonnes) by fishing fleet and year

Fishing fleet	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
BG	4488	1770	1478							
CL	0			8		107	53	0		
ES	72	64	815	1053	550	219	1037	946		
FK	0			22	78	17	47	330		
FR						8	15			
GR	1									
HN				18	57	2	4	12		
IS									83	
IT	0			35	65	44	1			
JP	251	4		0	16	0	76	97		
KR	1	75	1	39	97	6	92	358		
NO									17	
PA							4	43		
PL	217	65	18	8					26	
PT	2	11	5	5	22					
RU			0		0	5	82	5		
SL						8				
TW				6	0					
UK					0					
UR	2				5	0	21	48		
	5036	1989	2317	1192	890	424	1431	1964		

Others

Table N.4 Total catch (tonnes) by gross registered tonnage (GRT) and year

GRT	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<400	1		10	27	0	1	68	178		
400-599	2	1	119	297	297	149	222	146		
600-799			2	178	67	50	152	542		
800-999	15		93	114	71	33	158	157		
1000-1499	131	23	443	188	282	133	440	434		
1500-1999	64	58	14	349	84	41	273	126		
2000-2999	4608	1836	1637	40	73	9	42	260		
≥3000	215	72		0	16	8	76	120		
	5036	1989	2317	1192	890	424	1431	1964		

Table N.5 Total catch (tonnes) by length overall (m) (LOA) and year

LOA	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<45		1	119	185	94	92	1	99		
45-49	15		15	235	154	102	415	72		
50-54	1	4	96	102	242	65	142	654		
55-59	7		5	130	59	13	108	415		
60-64	21	3	13	148	4	19	210	14		
65-69	20	54	284	68	65	10	243	231		
70-79	150	24	220	298	200	113	215	266		
80-89	4607	1902	1556	26	57	1	1	33		
≥90	215	1	9	0	16	8	97	181		
	5036	1989	2317	1192	890	424	1431	1964		

Table N.6 Total catch (tonnes) by brake horsepower (BHP) and year

BHP	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<1000		1			5	57	50	99		
1000-1199			75	285	262	64	186	432		
1200-1399	2		119	6	0		57	65		
1400-1599	13	4	18	258	108	87	328	76		
1600-1799	0		189		16	8	23	39		
1800-1999	34	5	256	477	207	152	501	546		
2000-2499	121	116	14	26	1	20	109	115		
2500-2999	156	14	69	104	223	28	62	329		
3000-3999	4637	1778	1504	14	52	9	41	141		
≥4000	73	72	74	22	16	0	76	122		
	5036	1989	2317	1192	890	424	1431	1964		

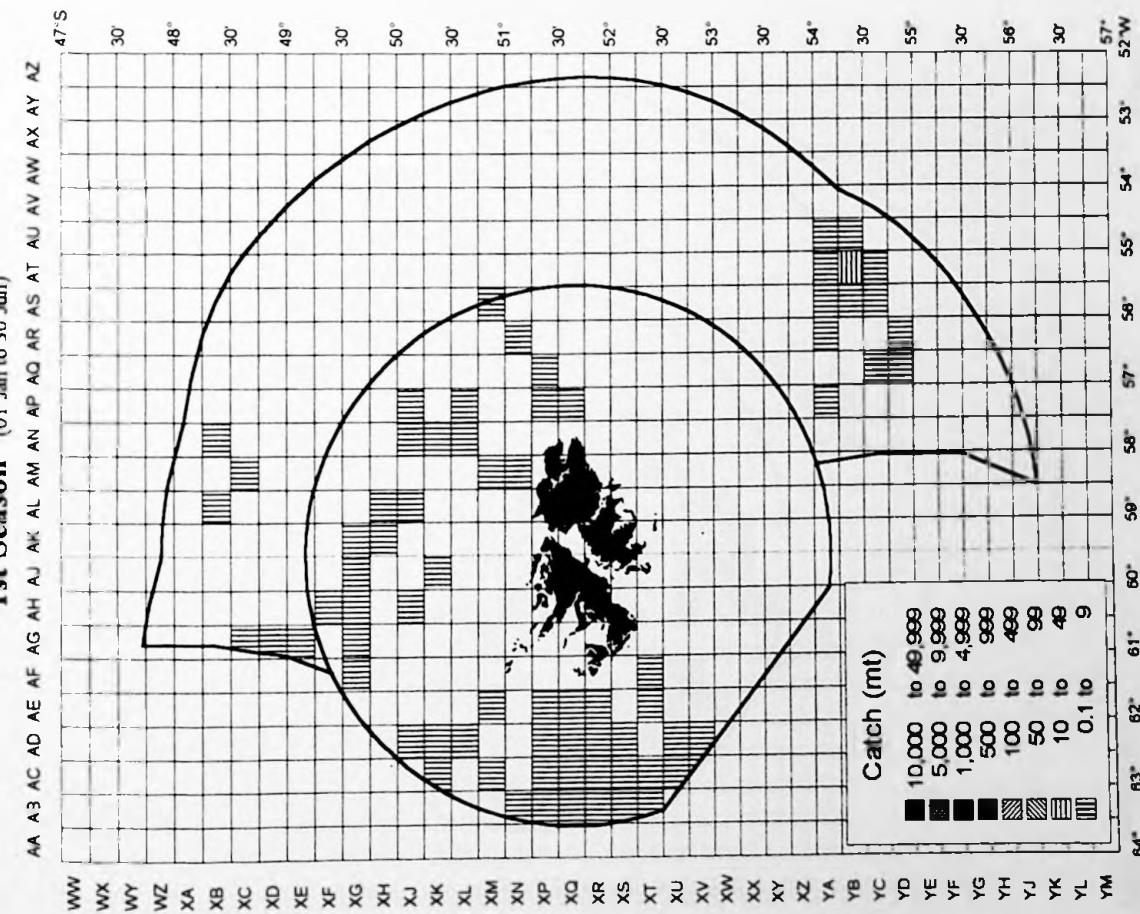
1994

Other

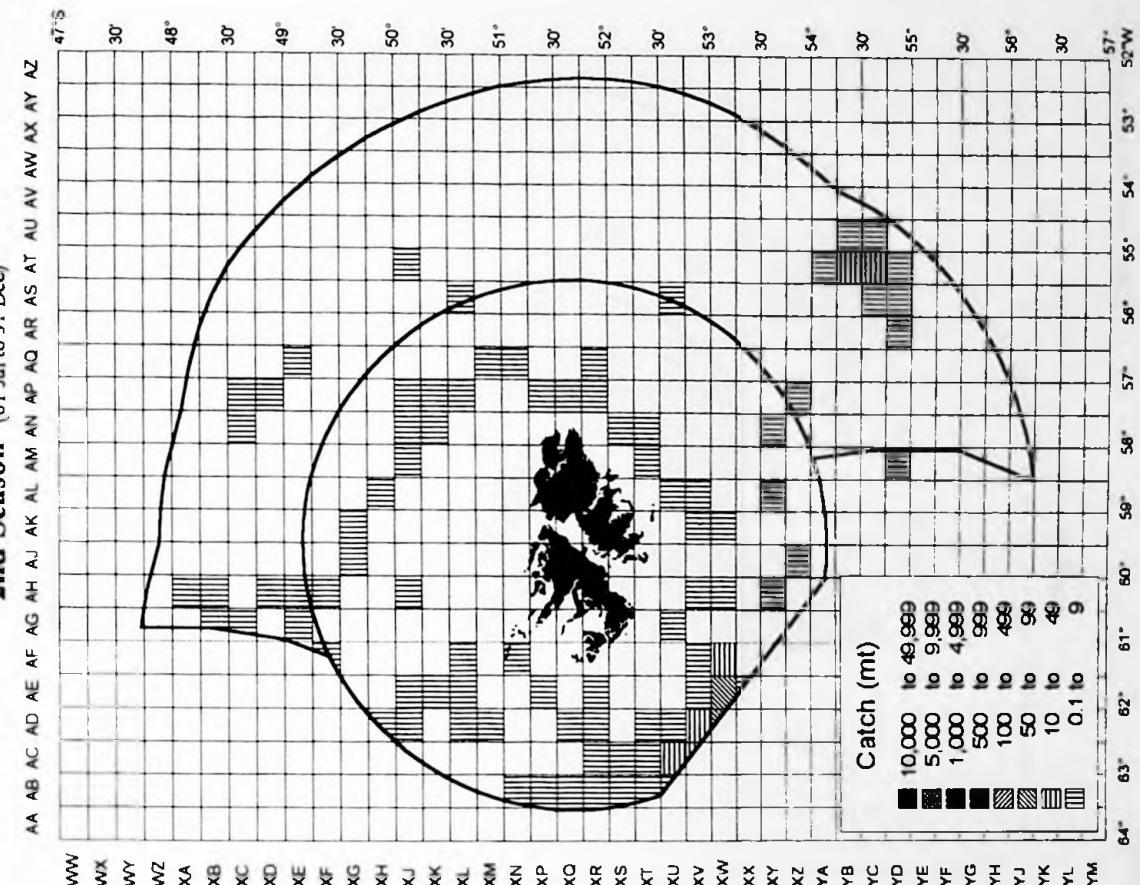
FICZ and FOCZ

Catch (mt) by grid square

1st Season (01 Jan to 30 Jun)

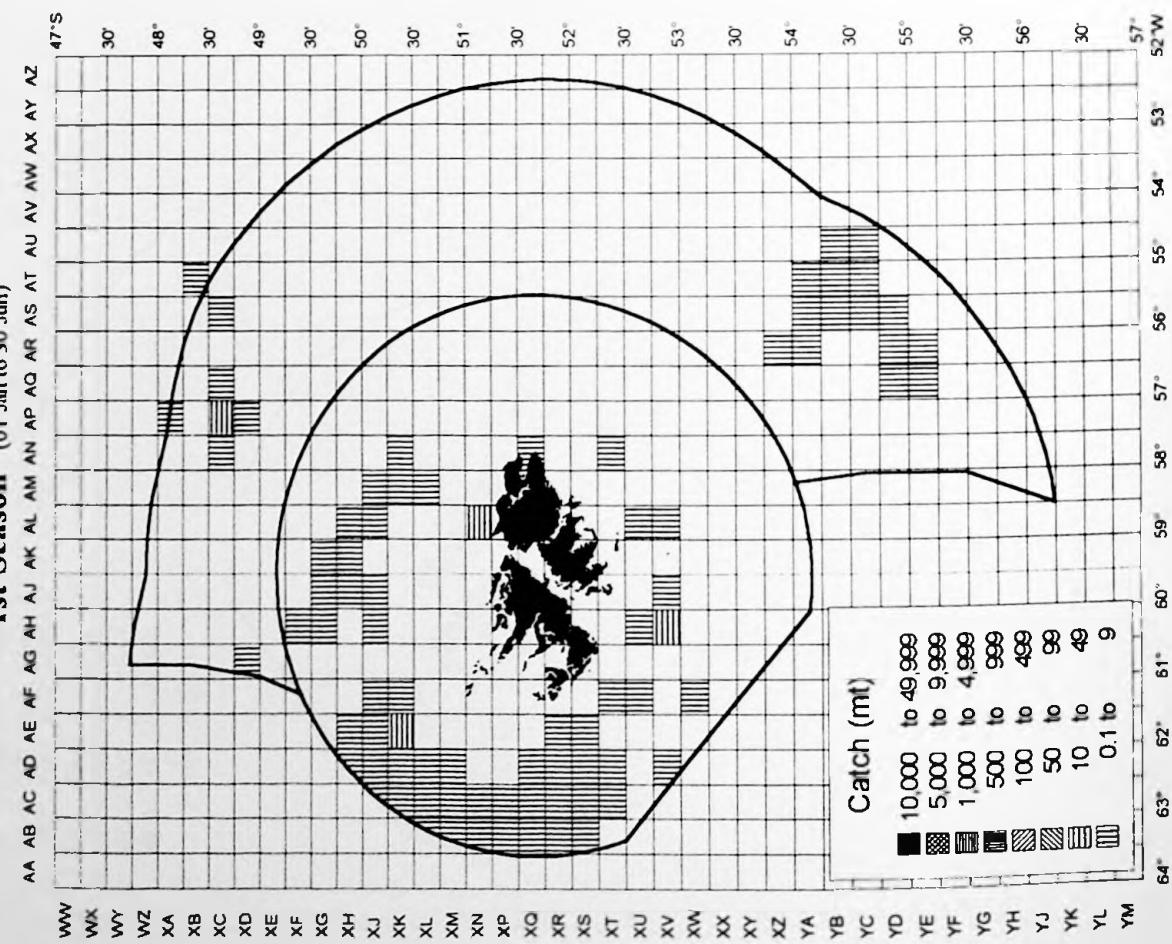


2nd Season (01 Jul to 31 Dec)

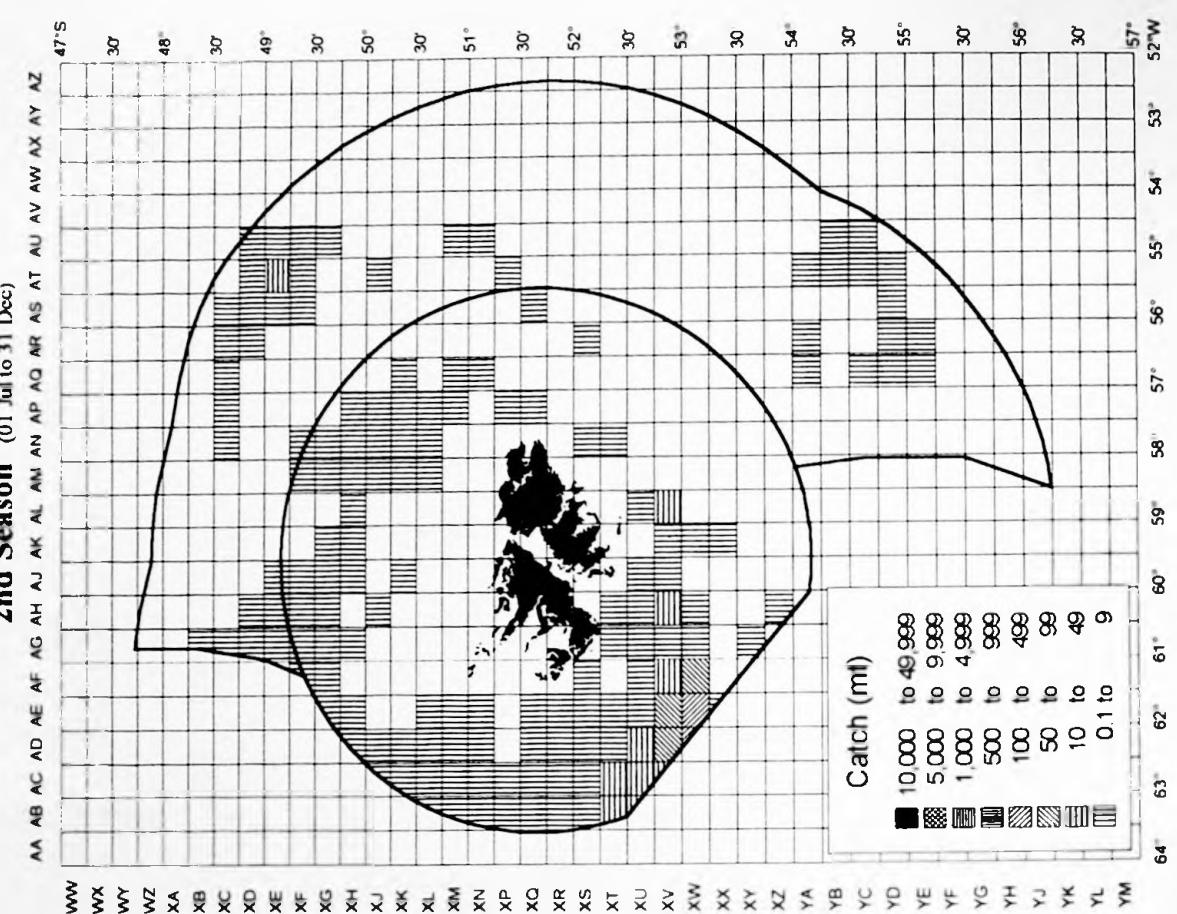


Others

1st Season (01 Jan to 30 Jun)



2nd Season (01 Jul to 31 Dec)



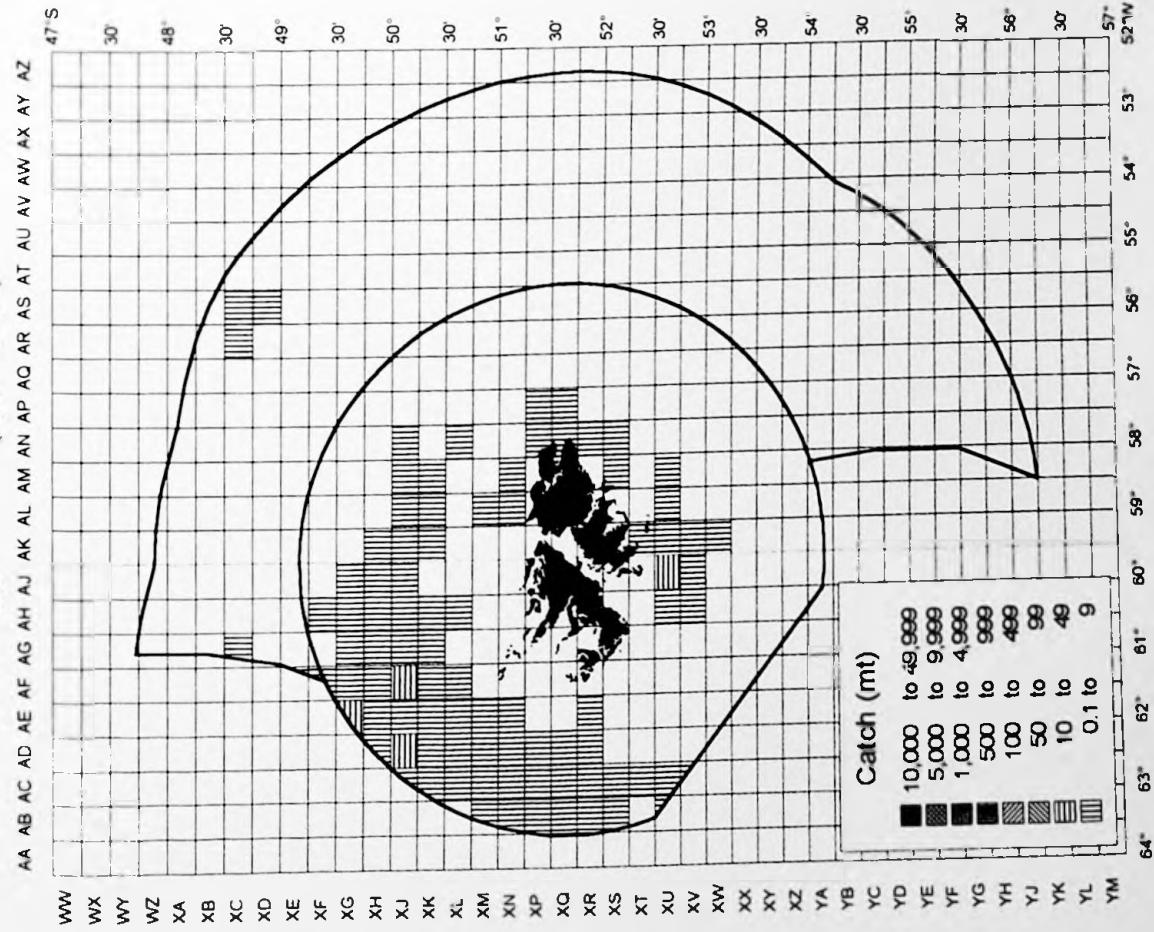
Catch (mt) by grid square

Others

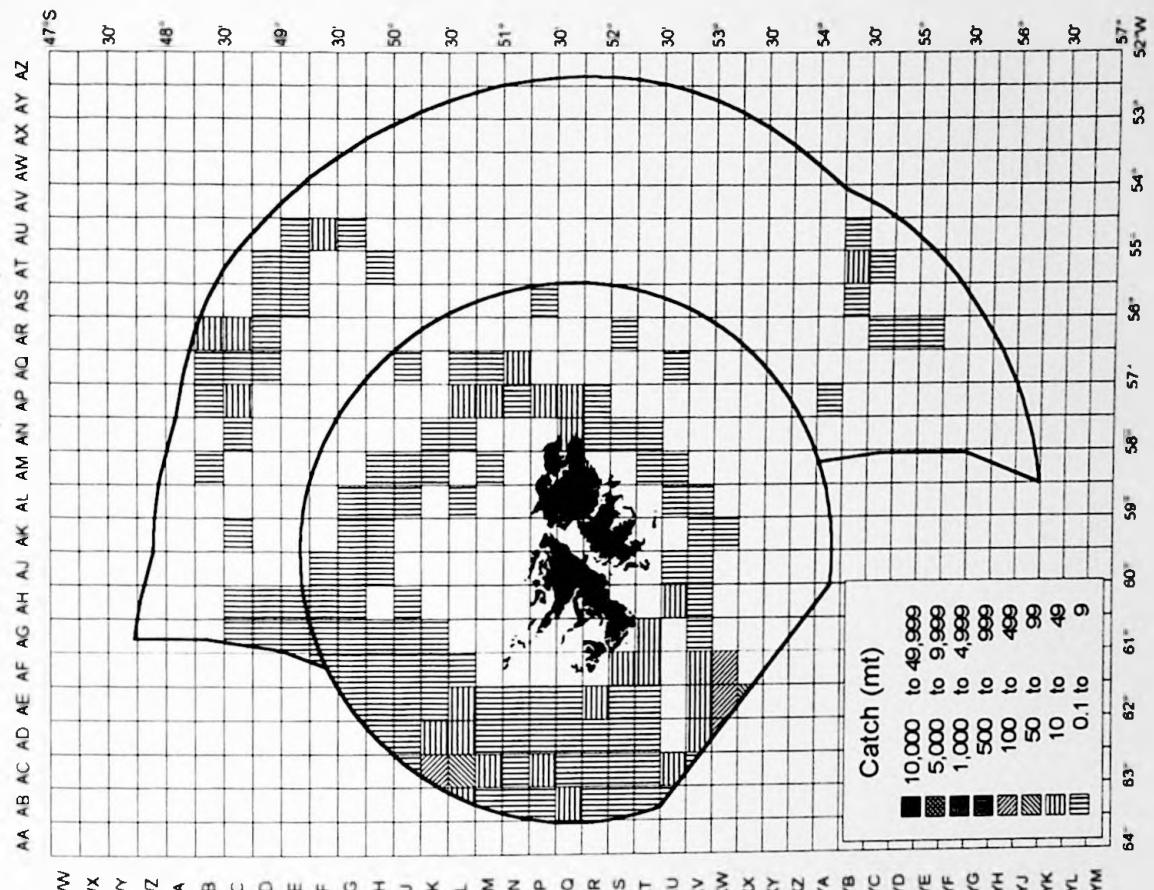
1996 Other

FICZ and FOCZ

1st Season (01 Jan to 30 Jun)



2nd Season (01 Jul to 31 Dec)



Catch (mt) by grid square

Others