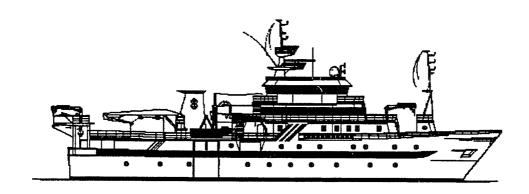
CRUISE REPORTS "DR. FRIDTJOF NANSEN"



SURVEYS OF THE FISH RESOURCES OF NAMIBIA

Preliminary Report Cruise No 1/94

Surveys of the hake stocks 19 January-21 February 1994

The DR FRIDTJOF NANSEN RESEARCH PROGRAMME is supported by the Norwegian Agency for Development Cooperation (NORAD), the Food and Agriculture Organization of the United Nations (FAO), and the United Nations Development Programme (UNDP). The programme in Namibia is being organized and planned under agreements between NORAD, Namibian authorities and the Institute of Marine Research, Norway. Its execution is the responsibility of the Institute of Marine Research, Bergen in cooperation with the Ministry of Fisheries & Marine Resources of Namibia.

The following surveys were carried out in Namibia:

Survey	1/90	25 January to 19 March 1990
*	2/90	27 May to 20 June 1990
**	3/90	11 September to 6 October 1990
Ħ	1/91	25 January to 23 March 1991
Ħ	2/91	23 October to 16 December 1991
н	1/92	23 April to 21 June 1992
н	2/92	20 October to 16 December 1992
н	1/93	20 January to 19 March 1993
н	2/93	21 April to 25 May 1993
11	1/94	19 January to 21 February 1994 *

^{*} First survey with the new R/V 'Dr. Fridtjof Nansen'.

TABLE OF CONTENTS

CHAPTER 1	INTRODUCTION 1
1.1	General objectives
1.2	Specific objectives of Part 1 1
1.3	Participation
1.4	Narrative
CHAPTER 2	HYDROGRAPHY 7
CHAPTER 3	RESULTS OF THE ACOUSTIC AND TRAWL SURVEYS 20
3.1	Discussion of methods
3.2	SOUTHERN REGION, Orange River to St. Francis Bay
3.3	CENTRAL REGION, St. Francis Bay to Ambrose Bay
3.4	NORTHERN REGION, Ambrose Bay to Cunene River
CHAPTER 4	CONSIDERATIONS ON THE SURVEY RESULTS
Annex I	Size composition of main stocks
Annex II	The size composition of the hake stocks split into length cohorts through
	optimizing techniques
Annex III	Records of fishing stations
Annex IV	Instruments and fishing gear used

1.1 GENERAL OBJECTIVES

Following an offer from NORAD extended through FAO and UNDP, an agreement was reached in Windhoek in January 1990 between the UNDP Resident Representative and Namibian authorities for the execution of a programme of surveys of the fish resources of the Namibian shelf with the RV 'Dr. Fridtjof Nansen'.

The purpose of the programme was agreed as follows:

The main objectives are descriptions of the distribution, composition and abundance of the most important fish resources. Small pelagic fish, including horse mackerel, pilchard and anchovy will be investigated by the acoustic integration method combined with sampling with mid-water and bottom trawls. A swept area trawl survey programme will be used for the demersal stocks. All catches will be sampled to species by weight and numbers and biological sampling will be made of the commercially important stocks.

Environmental studies will include recording of surface temperature on a continuous basis and sampling hydrographic stations in a series of fixed profiles.

Possible taxonomic problems will be studied in cooperation with FAO's Fisheries Department.

1.2 OBJECTIVES OF SURVEY 1/1994

The main objective was to carry out a demersal trawl survey of the hake stocks in order to continue the time series started with the old 'Dr. Fridtjof Nansen'. This vessel concluded its operations in Namibia in June 1993. As in previous surveys, the complete demersal fish community within the distribution range of the hake stocks was studied, with special emphasis, besides the hakes, on the less abundant but commercially important species as monk, sole and kingklip.

The acoustic system was used to observe possible mid-water occurrence of the hakes. The survey design for the swept-area trawl programme was based on a semi-random distribution of hauls along transects perpendicular to the coast. The transects were intended to cover the depth ranges

of the two hake species (100 to 600 m depth) and with a density of stations adapted to the expected fish densities. Biomass estimates of hake were based on post stratification by depth and density aggregations.

The new 'Dr. Fridtjof Nansen' is designed to do multidisciplinary surveys. Phytoplankton occurrence was mapped at the surface with point sampling and by a continuous flow through system. In addition, the vertical distribution of phytoplankton was studied by taking samples at the standard hydrographic sections.

Being the first survey with the new vessel, a series of technical tests and development of the information system onboard was part of the objectives.

1.3 PARTICIPATION

The scientific staff consisted of:

From Namibia:

Hashali Hamakuiaya 19-29 Jan., 11-21 Feb.

Heidrun Plarre and Annike van der Westhuizen, 19-29 Jan.

Lizette Voges, Mari du Plooy and Malakia Shimhanda, 2-21 Feb.

Dion van Vuuren, 2-11 Feb.

Janet Botha, Jamy Traut, Filimon Dauseb, Johnny Gamathan and

Heinie Lesch. (19 Jan-21 Feb)

From Norway, 19 Jan.-21 Feb.:

Tore Strømme, Oddgeir Alvheim, Terje Haugland and Martin Dahl.

1.4 NARRATIVE

The course tracks with the positions of the fishing and hydrographic stations are shown in Figures 1 a-c.

The vessel left Walvis Bay on the evening of 19 January and steamed south for about 36 hours to the Orange River were the survey started. The trawl stations were randomly distributed along transects perpendicular to the coast, about 20nm apart. After three days work, a breakdown in one of the trawl winches forced the vessel to interrupt the work, and return to Walvis Bay for

service. En route to Walvis Bay, while waiting for spare parts and service personnel to arrive from Norway, the standard hydrographic sections off Hottentot Point and off Conception Bay were completed. The vessel arrived in harbour on the 29 January, and left again on the 2 February to resume the work in the south. Supplementary problems with the winch system forced the vessel to call shortly on Luderitz on 4 February for service, whereafter the vessel was performing satisfactorily. The technical problems and the necessary steaming associated with it caused a loss in total survey time of 9 days. In order to be able to complete the coverage up to the Cunene the distance between the transect was increased from 20 to 30 nm, and the date for the end of the survey was postponed by three days, until 21 February. A short call was made at Pelican Point on the 11 February for exchange of personnel. Except for the shortened time for sampling and the more open sampling grid the programme followed that of previous surveys and 151 bottom trawl stations were completed. The survey ended off the Cunene River where the vessel met the RV 'Benguela' which brought the Namibian scientists back to Walvis Bay while 'Dr. Fridtjof Nansen' proceeded to Luanda. Three days were lost due to unfavourable weather conditions, two in the southern region and one in the central.

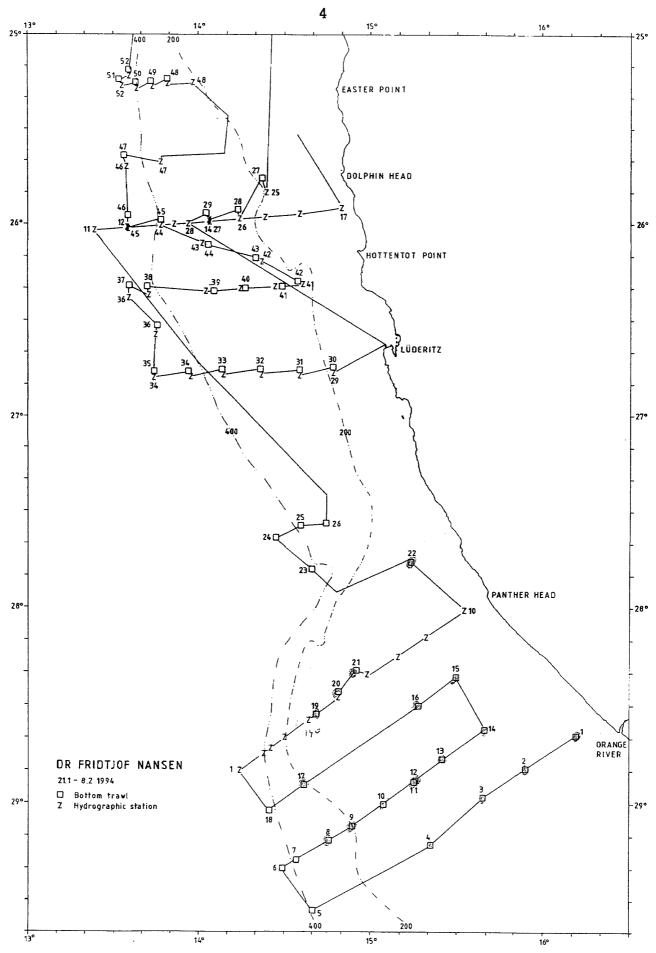


Figure 1a Southern Region (Orange River to St. Francis Bay). Course tracks, fishing stations and hydrographic profiles.

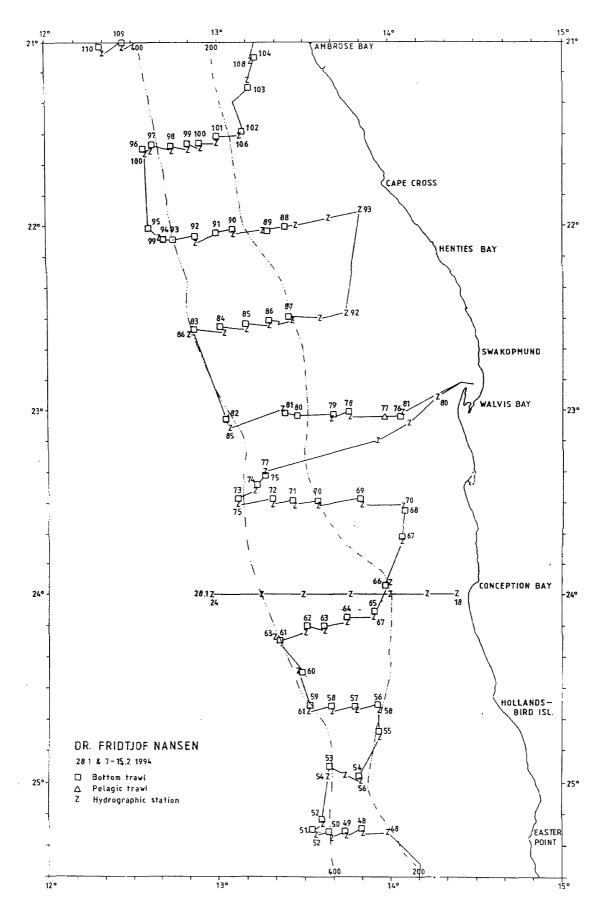


Figure 1b Central Region (St. Francis Bay to Ambrose Bay). Course tracks, fishing stations and hydrographic profiles.

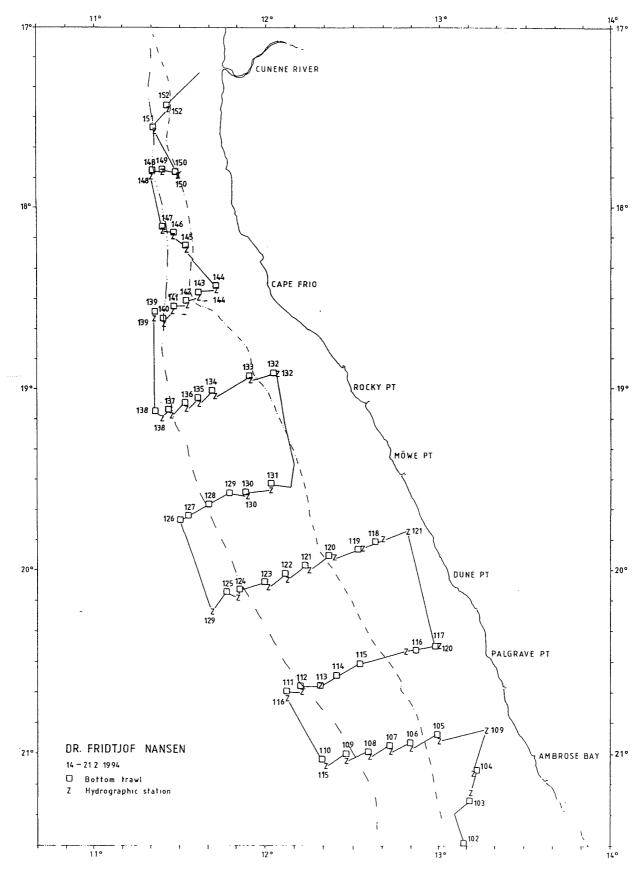


Figure 1c Northern Region (Ambrose Bay to Cunene River). Course tracks, fishing stations and hydrographic profiles.

CHAPTER 2 HYDROGRAPHY

Surface sea temperature was not recorded during the survey, as a new data logging system was still under development.

Temperature and oxygen at the bottom were recorded at all fishing stations from Lüderitz and northwards and are shown in Figures 2a-c and 3a-c. This was done in order to investigate the effect of these parameters on the distribution of the hake. Low oxygen conditions characterizes the shelf environment until beyond 200m bottom depth from Hottentot Point and northwards and the shallow waters until 100-150m between Conception Bay and Rocky Point have values less than 0.25ml O_2 /l.

The oxygen maps have been overlayed with the distribution maps of the Cape hake in Figures 4a-4c. They show that the main part of the hake stock is found between the oxyclines 0.25 and 1.0 ml/l.

The vertical distributions of temperature, salinity and oxygen along five standard hydrographic transects, collected with a CTD and an attached rosette for water samples, are shown in Figures 5a-5c.

The results from the phytoplankton mapping programme will be described in a separate report from the Plankton Section, MFMR, Swakopmund.

In the southern region, off Panther Head, the surface waters were characterized by relatively warm water (16-18°C) with a narrow upwelling zone close to the coast. Much of the shelf and coastal waters had high values of oxygen and the offshore water was relatively stable and defined by a strong thermocline at about 50m depth. Further to the north, off Hottentot Point, upwelling was intense in the subsurface coastal waters. Oxygen deficient waters at the bottom had developed and the 0.5 ml oxycline encircled the bottom water masses down to about 200m.

In the central region, the low oxygen conditions on the bottom prevail and there are indications of upwelling in the coastal surface waters.



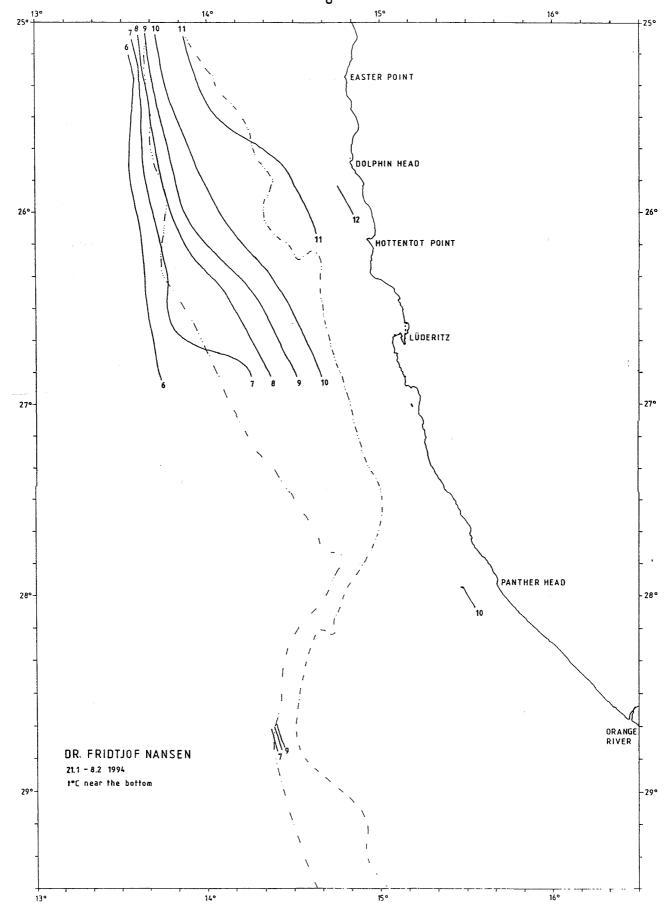


Figure 2a Orange River to St. Francis Bay. Distribution of sea temperature near the bottom.

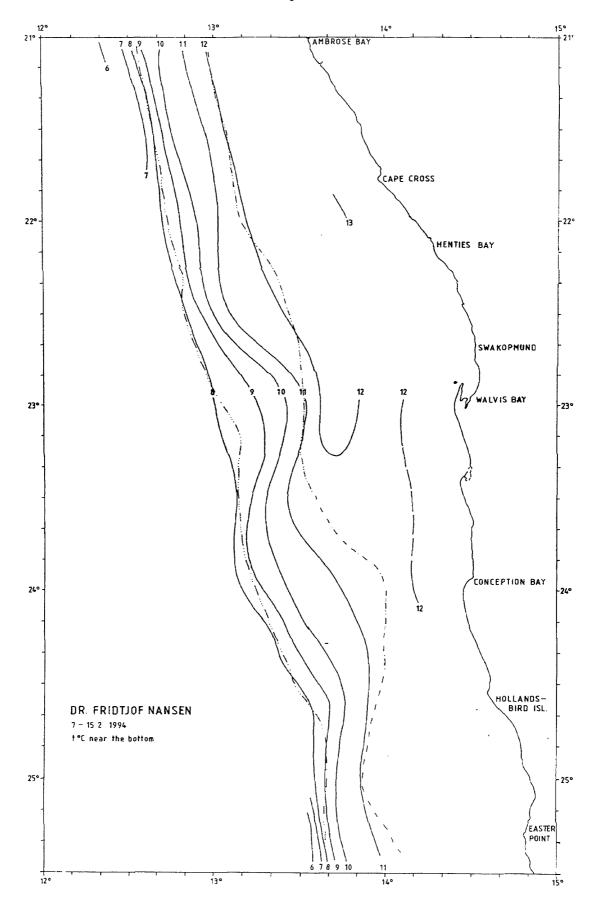


Figure 2b St. Francis Bay to Ambrose Bay. Distribution of sea temperature near the bottom.

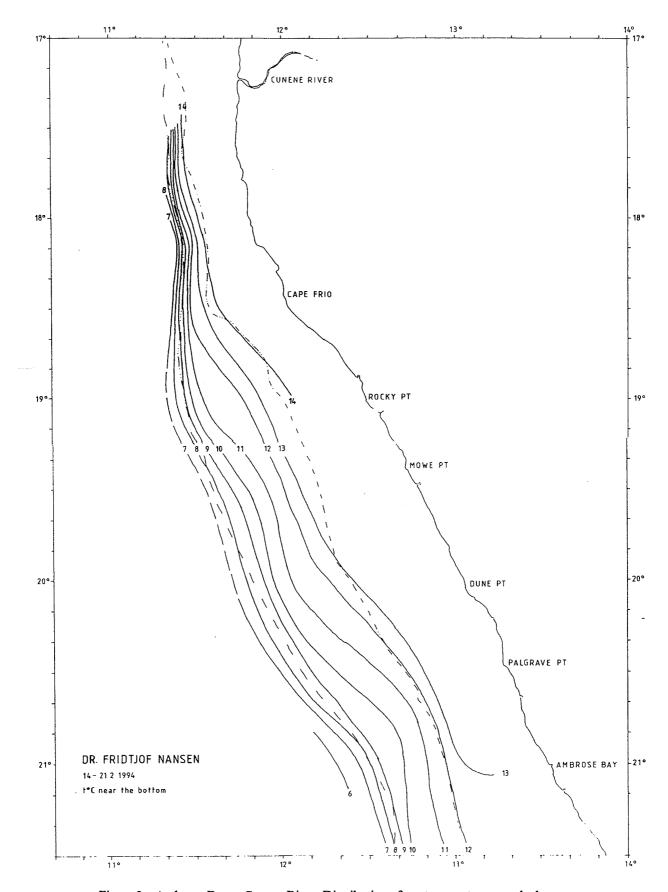


Figure 2c Ambrose Bay to Cunene River. Distribution of sea temperature near the bottom.

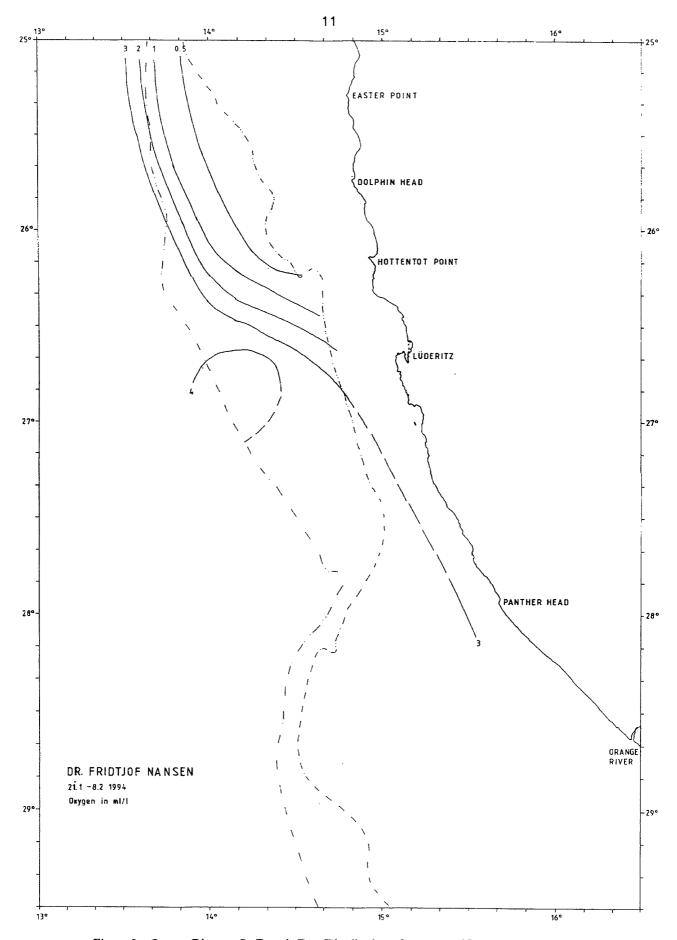


Figure 3a Orange River to St. Francis Bay. Distribution of oxygen (ml/l) near the bottom.

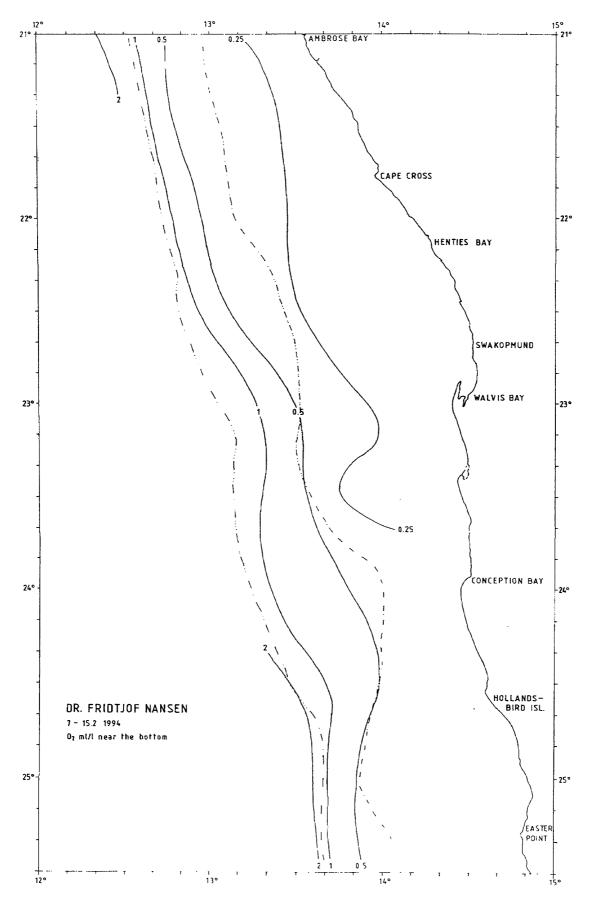


Figure 3b St. Francis Bay to Ambrose Bay. Distribution of oxygen (ml/l) near the bottom.

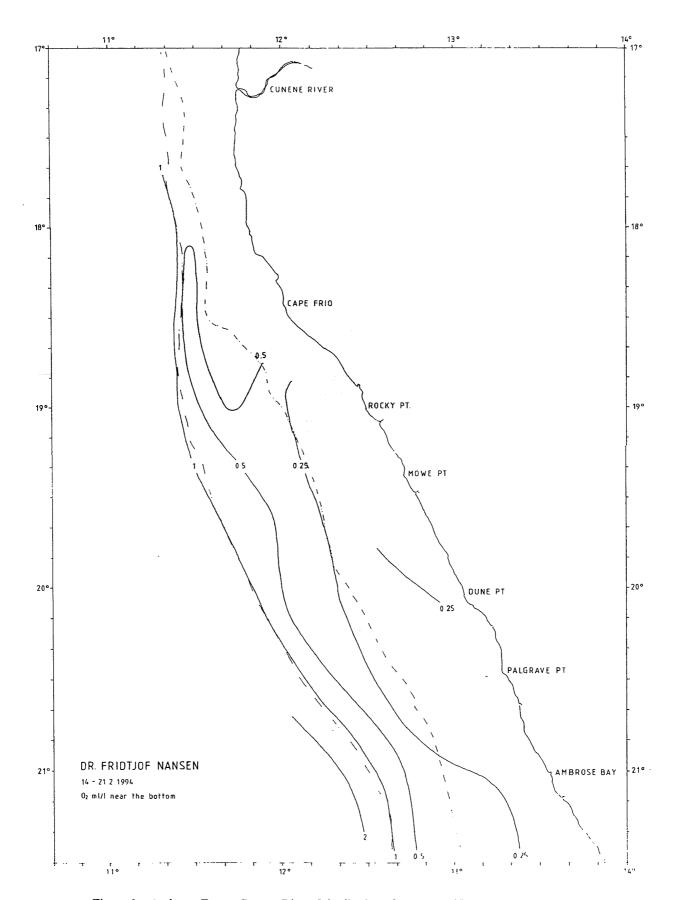


Figure 3c Ambrose Bay to Cunene River. Distribution of oxygen (ml/l) near the bottom.

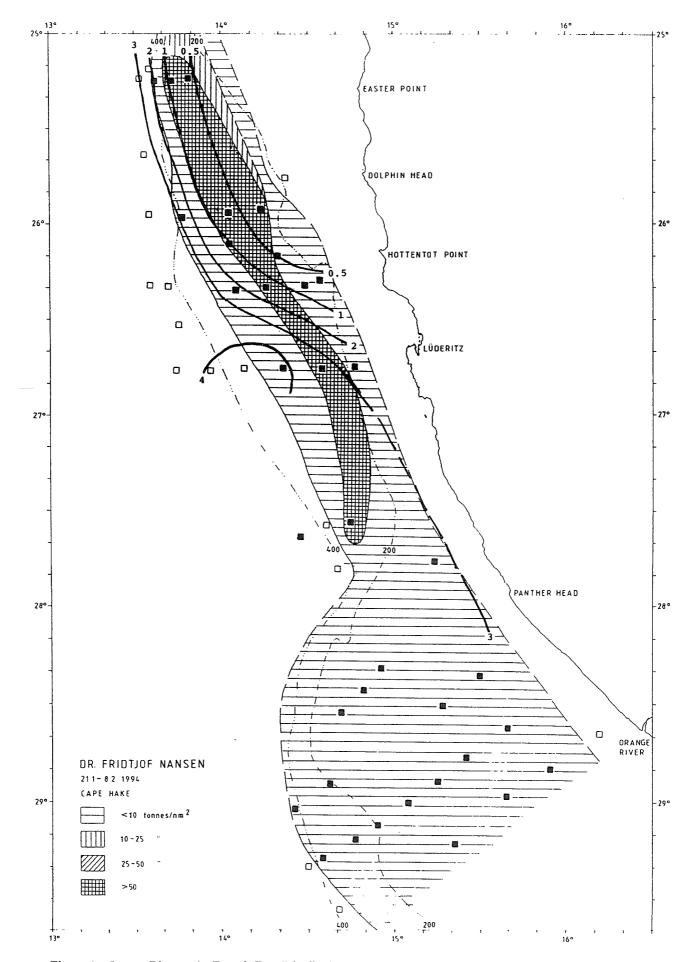


Figure 4a Orange River to St. Francis Bay. Distribution of Cape hake and oxygen (ml/l) near the bottom.

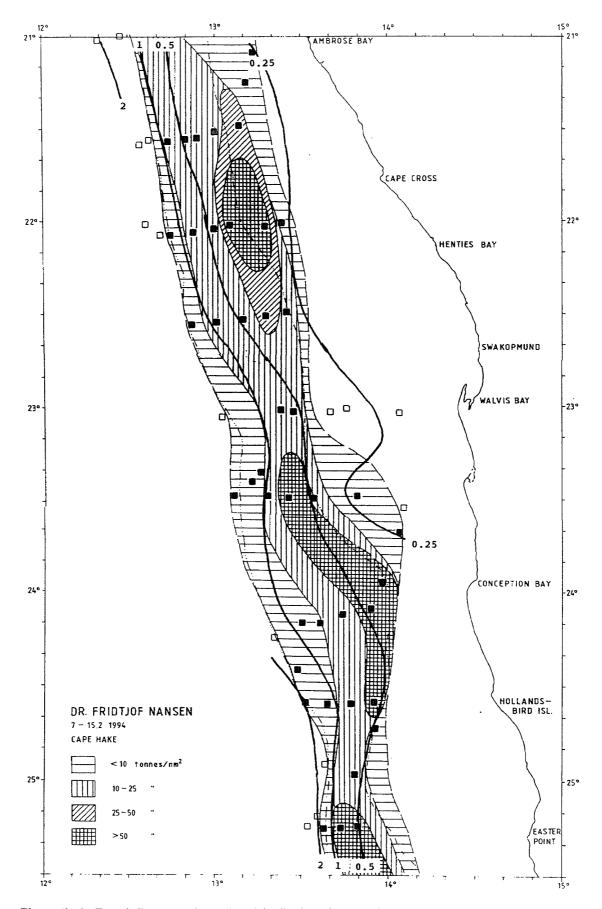


Figure 4b St. Francis Bay to Ambrose Bay. Distribution of Cape hake and oxygen (ml/l) near the bottom.

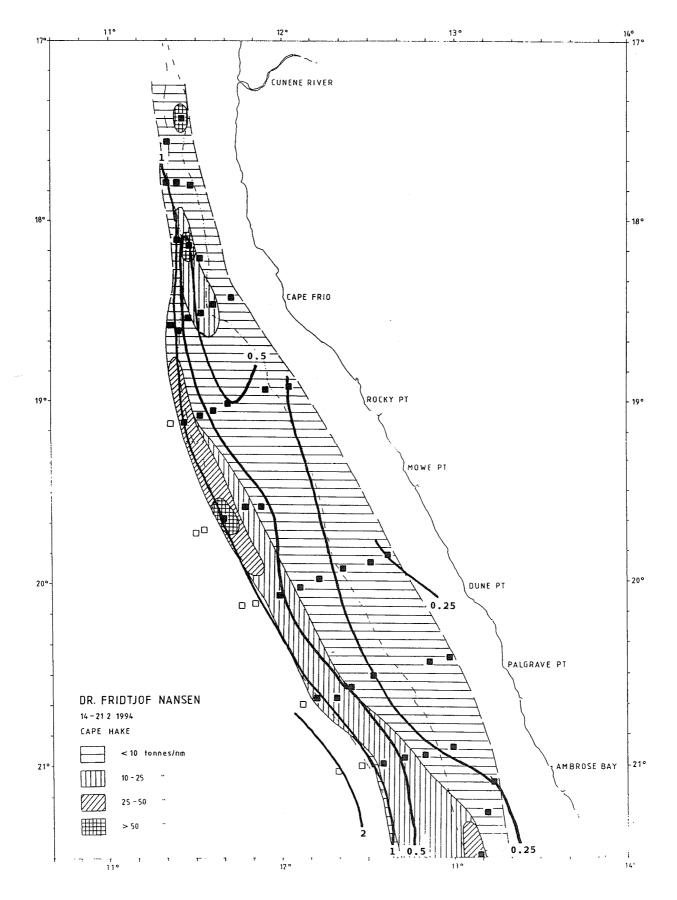


Figure 4c Ambrose Bay to Cunene River. Distribution of Cape hake and oxygen (ml/l) near the bottom.

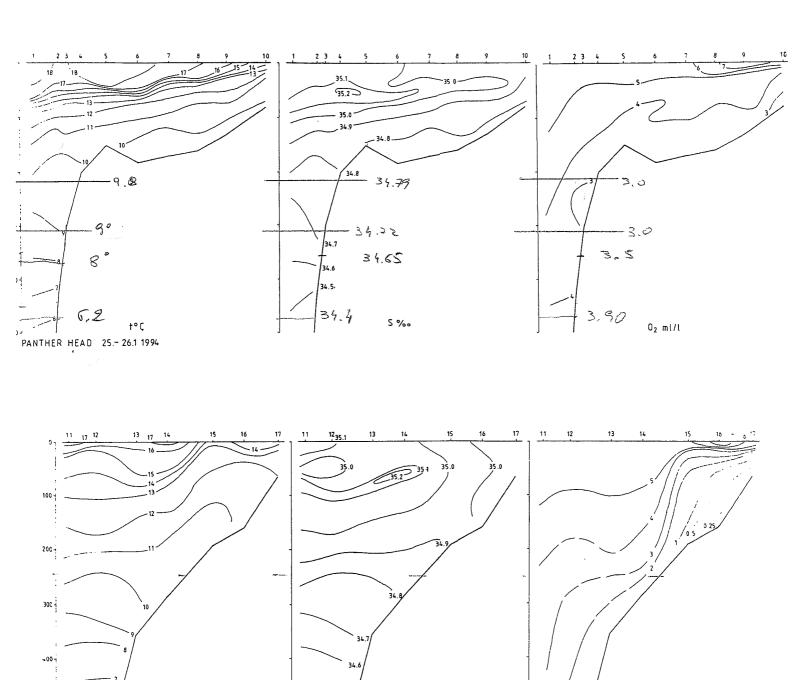


Figure 5a Orange River to St. Francis Bay. Temperature, salinity and oxygen in the standard profiles worked.

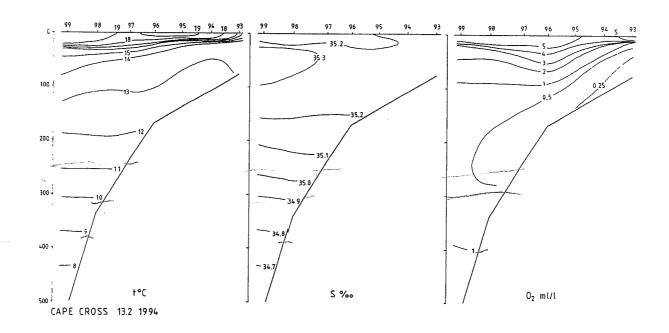
s ‰

 $O_2 ml/l$

†°C

HOTTENTOT POINT 27.1 1994

500 j



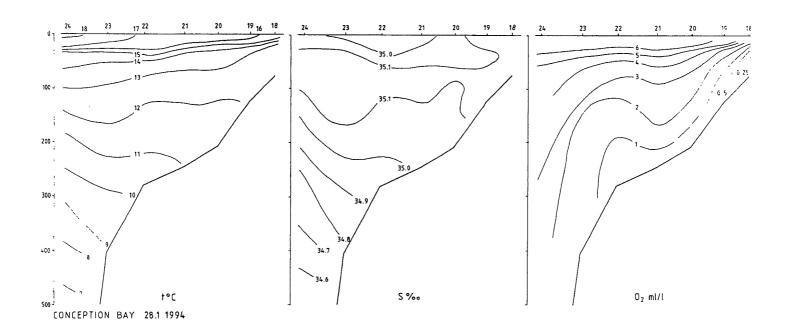


Figure 5b St Francis Bay to Ambrose Bay. Temperature, salinity and oxygen in the standard profiles worked.

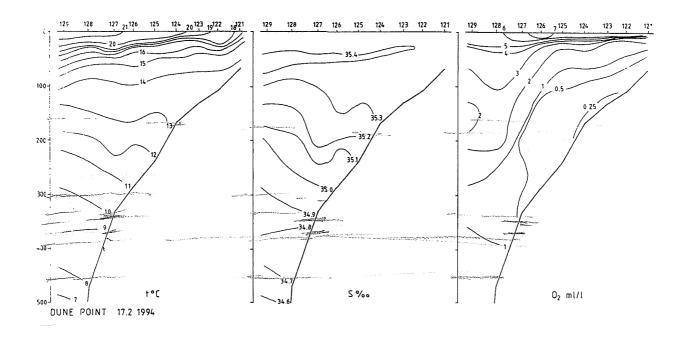


Figure 5c Ambrose Bay to Cunene River. Temperature, salinity and oxygen at the standard profiles

In northern waters, some upwelling was taking place. Off Dune Point the 0.5ml oxycline was found at 300m bottom depth and there were signs of upwelling of subsurface waters in the coastal areas.

A detailed analysis of the hydrodynamics of the water masses in the region should reveal more characteristics of the phenomenon.

CHAPTER 3 RESULTS OF THE ACOUSTIC AND TRAWL SURVEY

3.1 DISCUSSION OF METHODS

In the trawl survey programme all catches were sampled in weight and numbers, by species. The bottom trawl has a headline of 31m (float line), footrope 47 m, estimated headline height 5m and distance between wings during towing about 18m. As a new standard procedure all trawl hauls were monitored by SCANMAR trawl sensors and the actual time the trawl was fishing on the bottom was determined with improved accuracy. For conversion of catch rates to fish densities the area between the wings was assumed to be the effective fishing area. Furthermore, the retention factor q was assumed to be equal to 1. With the new vessel a new trawl gear was introduced with smaller bobbins. This gear gives better bottom contact and a higher catch rates for bottom dwelling species as monk and sole. For the hake species the new gear is assumed to have no difference in performance. The trawl doors, net, warp and wire dimensions are as with the former vessel. The length of a haul, recorded as distance over bottom was measured by Doppler log on the bottom.

The problem of mid-water occurrence of hake and its effect on the swept-area assessments has been discussed in previous cruise reports. Off-bottom hake constituted only a minor problem in the south and in the central area, while on the north it made up at average a 26% addition to the demersal biomass in the day hauls. In a more limited number of night hauls the average correction is 47% both in the northern and southern area.

The high rate of mid-water occurrence observed in the north during the present survey makes the biomass estimates less reliable (Table 1). It seems probable that they have caused a negative bias and that the stock biomass for this area may be underestimated.

Table 1 Hakes. Frequency of observations of hake in midwater during trawling. No. of trawl stations with swept-area estimate only and no. of stations with observations of hake above 5 m from bottom, with acoustic density estimate. Density in tonnes/nm². **NIGHT ORANGE RIVER -**DAY ST. FRANCIS BAY Trawl No. stations 37 13 Mean density 30.1 14.9 Acoustic obs. No. stations 6 6 14.8 Mean density 8.7 5% 46% Average acou. corr. ST. FRANCIS BAY -AMBROSE BAY Trawl No. stations 41 7 Mean density 24.5 7.5 Acoustic obs. No. stations 4 Mean density 6.6 10.2 78% Average acou. corr. 6% AMBROSE BAY -**CUNENE RIVER** Trawl No. stations 38 Mean density 13.2 9.1 Acoustic obs. No. stations 8 2 Mean density 14.9 16.1 Average acou. corr. 26% 47%

3.2 SOUTHERN REGION, ORANGE RIVER TO ST. FRANCIS BAY

The complete record of the fishing stations is shown in Annex III.

Table 2 shows the catch rates of the main commercial species standardized to kg/hour for the shelf and the slope separately. Compared with the January-February survey 1993 the mean catch rates for the hakes do not show any change. The mean monk catch rates have increased remarkably since the previous surveys, 9 times in the 50-250m bottom depth zone, and 14 times

beyond 250m compared to survey 1/93. This increase is mainly due to the new gear giving better bottom contact. However, the catch rates of the soles have not increased.

Table 2. Southern Region. Catch rates by main groups by swept area bottom trawl for the shelf and the slope.

SHELF 50-259 m

ST.NO.	DEP.	Hakes	Monk	Kingklip	Soles	Squid	Other
1	93	1996.0		13.9	3.3	14.2	1927.6
2	147	85.8		1.8		127.6	645.7
2 3	173	227.7	2.6	1.4	1.7	19.5	208.1
4	179	288.8	29.1	15.02		145.6	2921.6
8	210	121.7	15.9			14.4	372.8
9	188	83.8	45.7			14.8	219.1
10	168	95.4	11.8	1.8		6.6	1008.0
12	150	147.6	19.2	0.8		9.4	305.6
13	176	122.1	5.6	6.2		58.3	128.7
14	151	140.8	4.2	4.3		74.6	122.8
15	136	189.5		4.5			272.7
16	175	225.1		3.7		243.3	132.5
17	216	11.1	7.8	53.5		1.4	182.8
19	171	402.2	29.6			4.9	385.0
20	180	319.6	84.1			21.2	290.7
21	174	320.5	11.5			84.2	289.0
22	122	171.3		1.0		29.2	289.6
27	192	1.5					50.0
28	234	2356.7					174.2
30	182	344.7					46.4
31	253	2744.7	41.7	6.0	25.5		361.5
42	245	83.9					154.0
43	209	18.1					3.0
48	247	2232.1	132.6		7.2	7.5	604.4
MEAN		530.4	18.4	4.8	1.6	36.5	462.3

SLOPE 260-700 m

ST.NO.	DEP.	Hakes	Monk	Kingklip	Soles	Squid	Other
5	350	179.7		49.4			140.6
6	475	199.6	7.7			2.4	97.7
7	319	521.0		63.8			997.8
18	367	168.7		15.7	0.1	0.1	82.7
23	431	1693.3		11.8			32.5
24	534	413.2				11.9	318.6
25	363	2726.6		21.0			207.5
26	330	705.1	16.6	11.6			259.5
29	288	2359.5	231.8		2.6	125.4	1719.4
32	338	925.2	12.9	15.5			106.7
33	380	1399.9	24.7	37.0		32.5	419.1
34	414	273.9	0.3	22.7		7.5	182.2
35	479	344.2	22.7			18.9	102.7
36	417	1133.6		7.3			279.9
37	589	241.8				16.5	443.5
38	413	1173.9				6.6	50.8
39	346	3047.7	49.9	2.0			225.7
40	300	3970.2	111.0	30.8			487.0
41	266	51.2	1.8	19.9	1.2	4.0	536.4
44	307	1423.2	26.6			8.3	127.7
45	384	1140.7	52.5	41.8		19.7	382.4
46	648	237.8				28.6	994.1
47	581	112.9	19.2			5.8	731.2
49	296	4141.8	227.4			46.0	697.1
50	412	874.0	29.5	20.8		123.1	485.3
51	638	677.1	32.0			418.0	1462.0
52	501	296.7	13.3			48.0	1436.0
MEAN		1127.1	32.6	13.8	0.2	34.2	481.7

The depth distribution of the two hake species based on the catch rates converted to densities are shown in Table 3. For both species the densities are lower than of the previous survey.

Table 3 Southern Region. Depth distribution of the two hake species. Mean densities in tonnes/nm² and mean catch rates kg/hour.					
	100-250m	250-350m	350-450m	450-550m	550-650m
Cape hake Density Catch rate	11.0 330	49.1 1470	0.5 15	0.1 2	
Deep w. hake Density Catch rate	0.1 2	13.0 390	37.0 1110	9.6 290	10.5 310
No. of hauls	22	11	9	4	4

The distribution of the two hake species based on plots of densities by fishing stations are shown in Figures 6 and 7. These include the acoustic estimates of fish present above the 5 m bottom channel during trawling as discussed above. The distribution pattern of the two species is similar to that found in the previous surveys with relatively high densities of Cape hake extending from 25°S to about 28°S.

Biomass estimates based on a poststratification of the densities as shown in Figure 6 and 7, give 200 000 tonnes for the Cape and 160 000 tonnes for the deep water hake (Table 4). For both species, the estimates are about the same as in survey 1/93. The 95% confidence limits give a range of $\pm 19\%$ on the estimate of the Cape hake and $\pm 17\%$ on the deep water hake.

Table 4 Southern Region. Estimates of total biomass by surveys, 1 000 tonnes.					
Year/Survey	Cape hake	Deep water hake			
90/1	130	22			
90/3	130	25			
91/1	113	31			
91/2	80	82			
92/1	200	145			
92/2	160	125			
93/1	210	150			
93/2	180	115			
94/1	200	160			

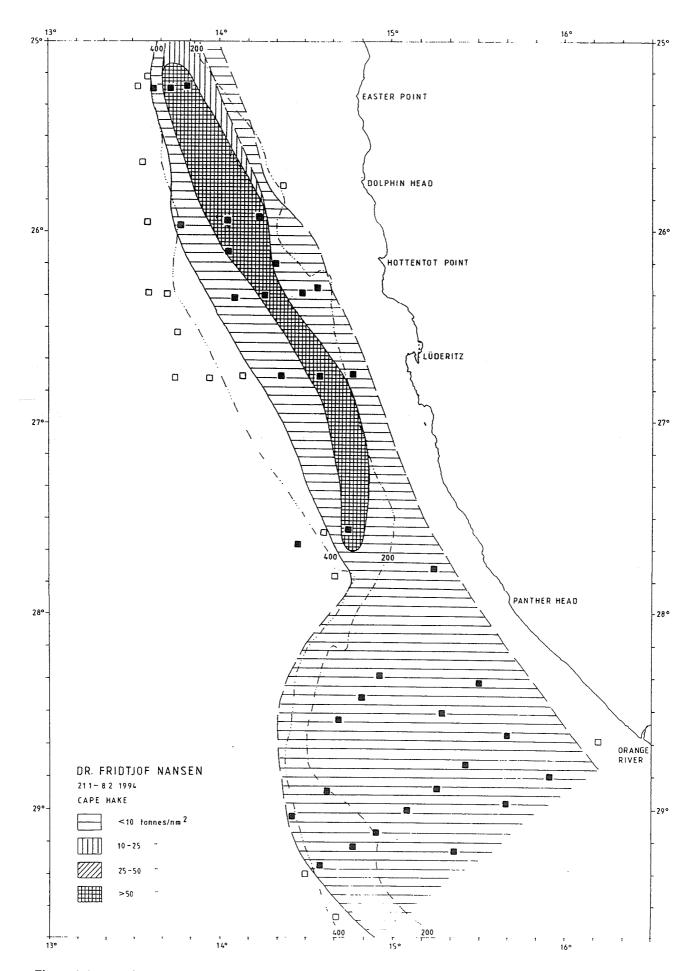


Figure 6 Orange River to Francis Bay. Distribution of Cape hake. Empty squares indicate stations where Cape hake was not caught.

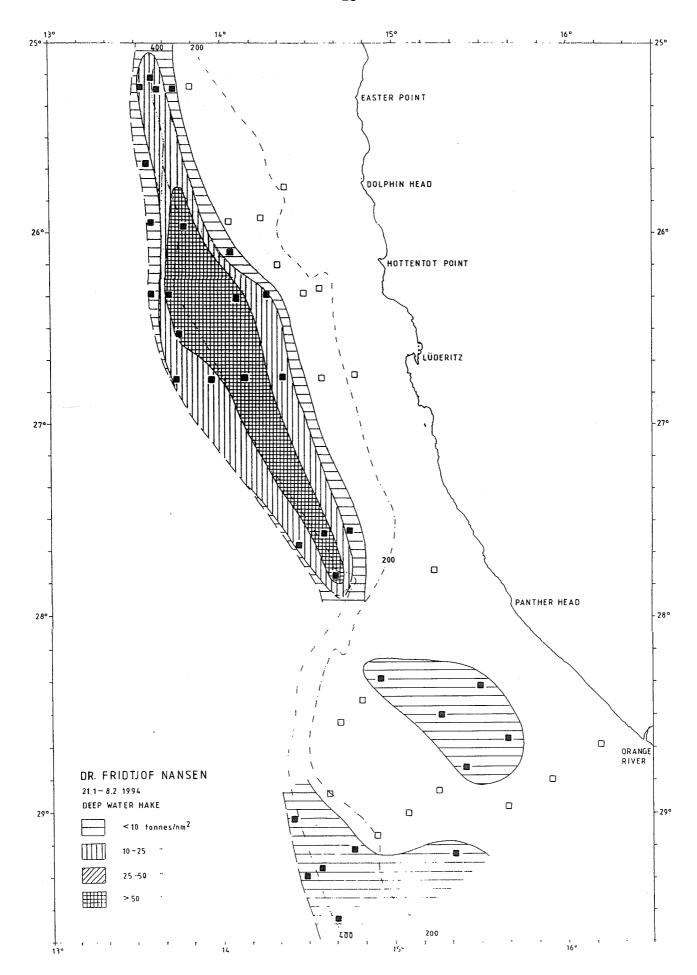


Figure 7 Orange River to St. Francis Bay. Distribution of deep water hake. Empty squares indicate stations where deep water hake was not caught.

The size compositions of the Cape hake from pooled samples weighted by catch rates are shown for each region by depth ranges in Annex I. There is as usual an increase of size with depth. A cohort analysis on the length distribution was performed in the same way as during surveys 2/92 and 2/93. The results are shown in Table 5 and a graphical representation in Annex II.

Table 5 Southern Region. Cape hake. Estimated age-cohorts from optimized length distributions.						
Year Mean Sigma Fraction of Popu all fish mit					Biomass 1 000 t	
1992 1991 1990 older	24.7 30.5 40.0	2.35 3.20 3.50	0.45 0.40 0.08 0.07	340 310 67 53	34 60 27 79	

The dominating cohorts are the 1992 and 1991 yearclasses which is estimated to 85% of the total number of fish and a biomass of 94 000 tonnes. The fishable part of the cape hake in the region constitutes 138 mill. fish with a biomass of 112 000 tonnes. Since survey 2/93 the fishable biomass has increased with 48 mill. fish and about 18 thousand tonnes. The mean body weight has decreased from 1.04 kg to 0.81 kg, indicating recruitment of young fish into the fishable part of the stock.

The size composition of the deep water hake is shown in Annex I.

Results from a length based cohort analysis on the deep water hake is shown in Table 6. The non-fishable part of the stock in the region is estimated to 331 mill. fish with a biomass of 46 thousand tonnes, and 190 mill. fish with a biomass of 114 thousand tonnes constitutes the fishable biomass. This is a slight increase compared to survey 2/93 (168 mill. fish and 95 000 tonnes).

Table 6 Southern Region. Deep water hake. Estimated age-cohorts from optimized length distributions.					
Year class	Mean length	Sigma	Fraction of all fish	Population million N	Biomass 1 000 t
1992 1991 1990 1989 older	25.4 33.5 40.0 49.2	3.1 3.2 3.2 3.5	0.47 0.22 0.14 0.16 0.01	246 113 74 82 6	27 29 31 65

3.3 CENTRAL REGION, ST. FRANCIS BAY TO AMBROSE BAY

Table 7 shows the catch composition for the shelf and the slope by main groups. The mean catch rates for hake are about the same as those obtained in the April-May survey 1993 while the catchrates for monk has increased about two times in the more shallow depth range, and 13 times in the deeper.

Table 7 Central Region. Catch rates by main groups in swept area bottom trawl hauls, kg/hour.

SHELF 100-259m

ST.NO.	DEP.	Hakes	Monk	Kingklip	Soles	Squid	Other
54	243	986.7	134.5		11.4	9.2	2685.6
55	202	191.9					3.7
56	208	5403.9	3.3		3.7		188.3
65	232	1486.6	68.0		3.3		150.6
66	206	2662.2	8.6		3.4		211.7
67	157	6.6					
68	142						
69	155	188.8					3.0
70	193	999.8	33.0		4.6		216.5
71	236	2585.1	28.7	0.9			8747.3
76	123	1.8					9.2
78	144	38.3					1259.5
79	148	535.8					24.3
86	245	1188.9	0.7		4.9		29.1
87	211	612.7					247.5
88	161	246.7					273.6
89	172	3430.6					100.8
90	235	2470.2	0.5		17.7		65.3
102	158	1069.0				7.7	4697.8
103	123	265.1					104.7
104	120	4.0					64.4
MEAN		1160.7	13.2	0.04	2.3	0.8	908.7

SLOPE 260-650m

ST.NO.	DEP.	Hakes	Monk	Kingklip	Soles	Squid	Other
53	430	235.6	40.1	17.2			735.4
57	319	625.5	97.0			11.9	340.7
58	376	933.8	106.8	19.0		5.9	786.1
59	397	1344.7	36.4	11.8			359.2
60	352	60.3	34.9	32.3		39.4	460.0
61	430	441.2	19.3	6.9		52.2	698.0
62	294	178.6	33.1			13.1	395.8
63	287	300.3	59.8				348.5
64	261	563.5	105.5				266.5
72	312	504.7	12.6			18.0	331.6
73	417	212.4	20.1			27.0	484.7
74	378	159.0	60.4	6.2		8.3	451.5
75	357	177.3	57.9	6.8		25.1	342.2
80	269	386.7	37.3	0.7		0.8	183.3
81	322	95.4	17.5			5.3	168.6
83	350	187.1	5.0	13.7		5.3	379.8
84	291	542.1	48.9	•		9.5	191.1
85	269	629.0	29.3	0.4	7.9		782.7
91	291	262.3	49.3	0.6	13.7		341.6
92	335	643.1	27.1	3.2		12.3	235.4
93	379	201.2	22.9	8.9		39.4	816.8
94	503	428.8	3.2			57.7	504.3
95	623	273.4	7.9			5.7	753.0
96	544	156.8	21.5			27.2	928.3
97	441	468.6	121.8				1152.6
98	346	75.6	58.2	3.2		0.2	184.5
99	306	251.1	113.2		36.6	6.1	582.4
100	287	178.6	8.8	0.1	50.2		230.3
109	447	440.2	38.8				952.5
110	640	38.4	19.7			16.2	291.8
MEAN		366.5	43.8	4.4	3.6	12.9	489.3

The density indices by depth ranges of the two hake species are shown in Table 8. For the Cape hake the density is about the same as in survey 2/93 for the depth ranges 100-250m and 250-350m. In the depth range 350-450m the estimated density has dropped to about 30% of the previous level. The density index on the deep water hake has on the other hand increased in the same period. This increase is centered to the depth regions 350-450 and 450-550m.

Table 8 Central Region. Depth distribution of the two hake species. Mean densities in tonnes/nm² and mean catch rates kg/hour.					
	100-250m	250-350m	350-450m	450-550m	550-650m
Cape hake Density Catch rate	33.0 990	10.7 320	1.3 40		
Deep w. hake Density Catch rate		0.6 17	11.7 350	12.6 380	6.1 180
No. of hauls	21	15	11	3	2

The biomass estimate of Cape hake for the central region based on post stratification is 225 thousand tonnes, Table 9. This represents a reduction of 55 thousand tonnes or 20% since survey 2/93. The estimate on the deep water hake is 30 thousand tonnes, a 50% increase from 20 thousand tonnes since survey 2/93.

The 95% confidence limits on the estimates are $\pm 31\%$ on the Cape hake and $\pm 36\%$ on the deep water hake.

Table 9 Central Region. Estimates of total biomass by surveys, 1 000 tonnes.					
Year/Survey	Cape hake	Deep water hake			
90/1	180	4			
90/3	219	6			
91/1	150	6			
91/2	302	13			
92/1	261	15			
92/2	542	15			
93/1	280	12			
93/2	280	2 0			
94/1	225	30			

Figure 8 shows the distribution of Cape hake over this region. This has the same main features as in previous surveys, with high concentrations of fish forming bands 10-15 nm thick, their depth position varying between surveys. In survey 1/93 the high concentrations were found from about 20nm off Walvis Bay, while in survey 2/93 it was about 30nm further offshore, as in the present survey.

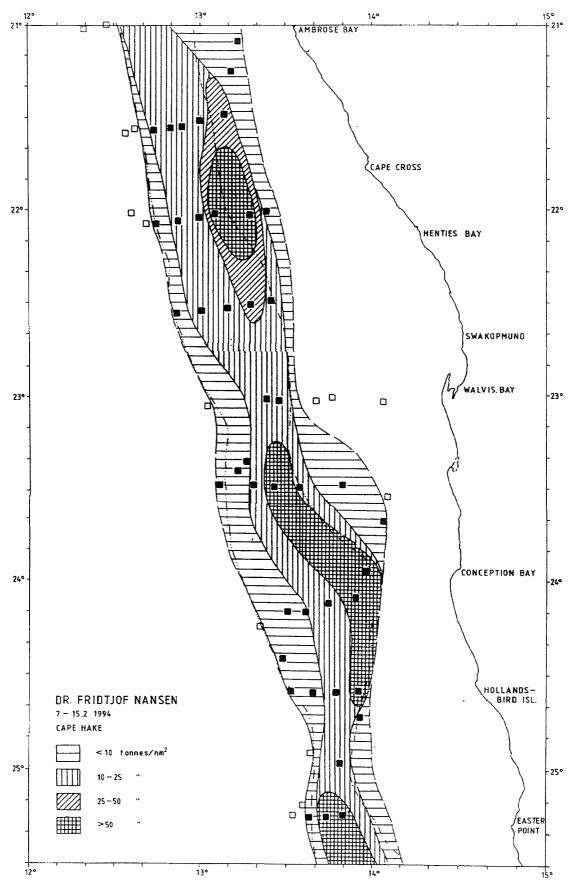


Figure 8 St. Francis Bay to Ambrose Bay. Distribution of Cape hake. Empty squares indicate stations where Cape hake was not caught.

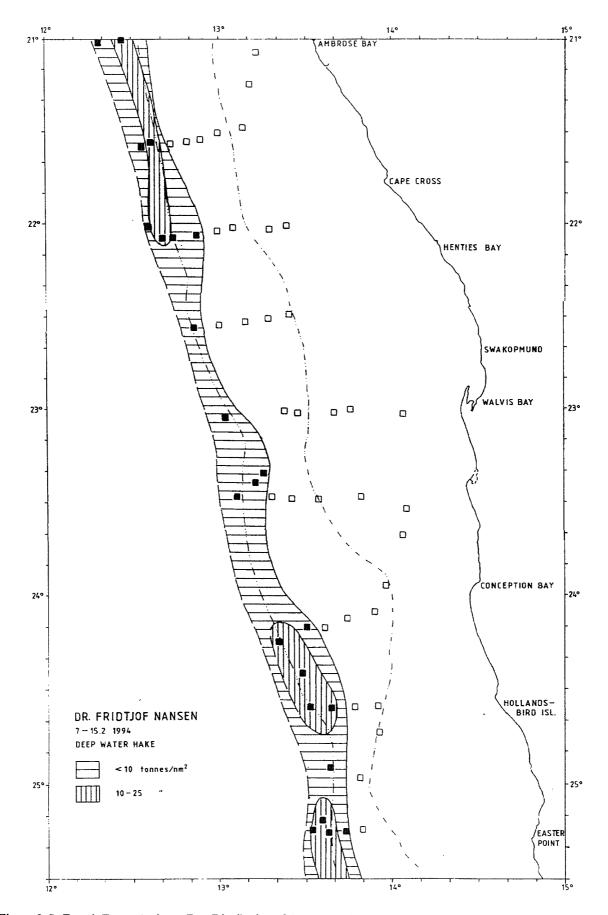


Figure 9 St. Francis Bay to Ambrose Bay. Distribution of deep water hake. Empty squares indicate stations where deep water hake was not caught.

The results from a length frequency analysis of the length distribution are shown in Table 10.

Table 10 Central Region. Cape hake. Estimated age-cohorts from optimized length distributions.						
Year class	Mean length	Sigma	Fraction of all fish	Population million N	Biomass 1 000 t	
1992 1991? older	22.2 26.5	2.1 2.0	0.85 0.115 0.035	1882 254 75	137 31 57	

The 1992 yearclass dominates the fish population with 85% of the number of fish, followed by a less clearly identified 1991 yearclass with about 12%. The fishable part of the population is 46 mill. fish and 50 000 tonnes, a reduction from 95 mill. fish and 118 000 tonnes in May 1993. The mean body weight in the fishable biomass has in the same period been reduced from 1.25 kg to 1.12 kg. The non-fishable biomass is estimated to 2212 mill. fish with a biomass of 174 000 tonnes, indicating a recruitment potential to the fishable biomass above normal.

Results from the length frequency analysis for the deep water hake is shown in Table 11. In this population the non-fishable biomass makes up only 33% of the number of fish while the remaining 67% are fish of size bigger than 35cm and are estimated to 47 mill. fish and 26 000 tonnes.

Table 11 Central Region. Deep water hake. Estimated age-cohorts from optimized length distributions.						
Year class	1		Fraction of all fish	Population million N	Biomass 1 000 t	
1992	25.7	2.2	0.18	13	1.4	
1991	31.9	2.0	0.08	6	1.2	
1990	40.0	3.7	0.55	38	16.0	
1989	50.5	3.2	0.183	12	10.0	
older			0.008	0.6	0.9	

3.4 NORTHERN REGION, AMBROSE BAY TO CUNENE RIVER

Table 12 shows the catch rates by main groups for the shelf and slope separately. The mean rate for hake has increased by approximately 25% in the shallower zone compared to survey 2/93 while in the deeper zone is practically the same. As in the other regions the catch rates for monk are consistantly higher in this survey as compared with previous ones. This is probably due to the new gear taken in use.

Table 12 Northern Region. Catch rates by main groups in swept area bottom trawl hauls, kg/hour.

SHELF 100-259 m

ST.NO.	DEP.	Hakes	Monk	Dentex	Horse mck.	Squid	Other
105	156	155.9					355.1
116	126	89.2			0.4		0.3
117	111	2.9			2.7		0.8
118	116	9.0			1.0		3.5
119	132	12.7			22.8		5.9
120	192	19.0					1.3
121	235	54.6		3.0	5.8		
132	135	139.8					38.8
133	230	48.8		0.4	294.6		0.2
142	230	1190.4		572.8	1493.6		90.0
143	181	440.8		1688.2	2346.6		176.3
144	148	66.2		2534.8	2741.2		107.5
145	239	189.1		580.8	2191.8		417.1
150	208	72.9		60.0	397.8	0.4	103.5
152	217	2880.0		213.6	4033.5		4234.2
MEAN		358.1		376.9	902.1	0.03	369.0

SLOPE 260-600 m

ST.NO.	DEP.	Hakes	Monk	Dentex	Horse mck.	Squid	Other
106	275	241.7	0.6	81.7	5.6	1.7	113.6
107	326	298.8	105.5		6.0	4.2	254.6
108	369	1167.3	63.1			48.6	195.5
111	541	121.7	131.2				2187.5
112	405	187.7	137.4				1431.1
113	413	209.0	52.6				2351.5
114	300	263.6	64.2	117.8	7.6		931.6
115	279	205.6			7.3		252.5
123	334	151.5	198.7	32.4	3.6	6.3	625.0
124	441	565.1	60.0			48.3	777.4
125	573	394.1	10.2				1496.3
126	595	451.4	10.7			44.6	1768.5
127	548	233.6	3.7				982.4
128	394	1579.8	73.4			18.2	942.4
129	345	414.0	23.1	142.0	9.7	60.5	804.4
130	324	49.6	18.6	10.3		13.8	89.2
134	300	0.9	0.3		8.1		50.2
135	272	91.7	1.4		9.1		64.7
136	296	47.8	0.7	574.0			432.0
137	431	148.6	18.0				418.6
138	599	424.4	39.8			57.4	1053.7
139	551	190.3	305.5			85.8	1733.7
140	467	338.2	311.6			36.9	2154.6
141	297	328.8		415.0	11.0	0.7	126.2
146	366	3111.0	20.7				3854.6
147	557	170.0	89.6				2624.5
148	511	155.3	173.7			41.1	2524.5
149	275	219.2		19.7	5.2	2.1	111.5
151	379	107.4	38.3				1008.2
MEAN		409.2	67.3	48.0	2.5	16.2	1081.4

Figure 10 shows the distribution of Cape hake in the northern region by levels of density calculated from the catch rates and with adjustments for fish in mid-water. The pattern of distribution is similar to that found previously in this region, with concentrations of high density in deeper waters extending northwards and gradually more shallow to the Cunene River.

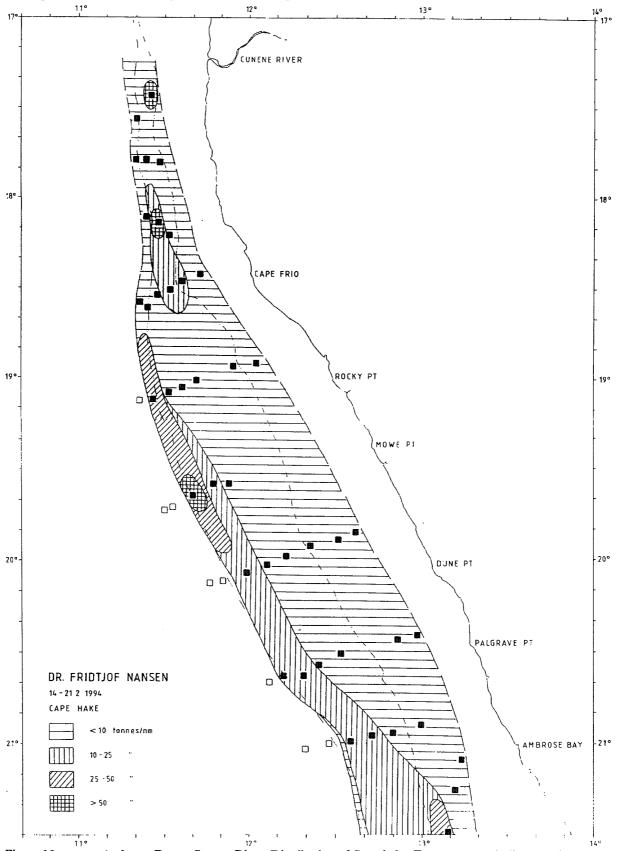


Figure 10 Ambrose Bay to Cunene River. Distribution of Cape hake. Empty squares indicate stations where deep water hake were not caught.

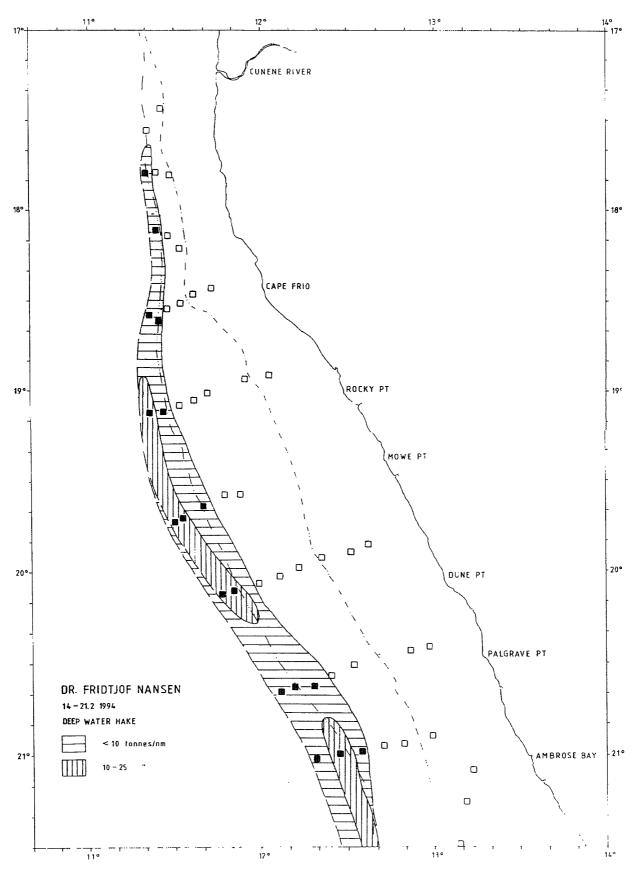


Figure 11 Ambrose Bay to Cunene River. Distribution of deep water hake. Empty squares indicate stations where deep water hake was not caught.

Biomass estimates give a total of 90 000 tonnes ±36% (95% confidence interval) of Cape hake and 20 000 tonnes of deep water hake ±36%. (Table 14). For the Cape hake this represents a decline of 20 000 tonnes since the last survey and the biomass figures generally indicate a declining trend in the biomass since January 1993. The deep-water hake on the other hand shows an increase from 6 to 20 thousand tonnes. Part of this increase can be explained by the better monitoring of the actual time the trawl is on bottom in the deeper waters. Experiments with SCANMAR sensors have shown the sinking time for the gear to be longer in deeper waters than estimated in the past. This has in the past caused that the actual time the trawl has been on the bottom has been overestimated, giving a negative bias in estimates from the deeper waters beyond 500m.

Table 13 Northern Region. Depth distribution of the two hake species. Mean densities in tonnes/nm² and mean catch rates kg/hour.							
	100-250m	250-350m	350-450m	450-550m	550-650m		
Cape hake Density Catch rate	12.4 370	6.3 190	24.0 720	2.3 70	1.0 30		
Deep w. hake Density Catch rate			3.4 100	4.1 120	9.5 2 90		
No. of hauls	15	12	8	4	5		

The results of a length frequency analysis done on the pooled length frequency distribution on Cape hake in the northern region are shown Table 15. The young part of the population with fish three years and younger makes up 70% of the number of fish, or 150 million fish with a biomass of 25 thousand tonnes. The so called 'fishable biomass', representing fish of 36cm and larger, constitutes 91 mill. fish with a biomass of 74 000 tonnes.

Table 14 Northern Region. Estimates of total biomass by surveys, 1 000 tonnes.					
Year/Survey	Cape hake	Deep water hake			
90/1	180				
90/3	105 *				
91/1	200				
91/2	140	2			
92/1	185	4			
92/2	190	8			
93/1	150	4			
93/2	110	6			
94/1	90	20			

^{* +} hake in the mid-water.

Table	Table 15 Northern Region. Cape hake. Estimated age-cohorts from optimized length distributions.						
Year class	Mean length	Sigma	Fraction of all fish	Population million N	Biomass 1 000 t		
Juv. 1992 1991 1990 1989	24.8 32.5 39.5 48.0	2.2 3.5 3.5 3.8	0.07 0.3 0.32 0.045 0.18 0.085	74 77 12 44 22	7 18 5 32 30		

A similar analysis on deep water hake, Table 16, showed that only 11%, or 3.5 million fish with a biomass of 900 tonnes, is young fish of age 3 years or less. The fishable biomass is 19 000 tonnes.

Table 1	Table 16 Northern Region. Deep water hake. Estimated age-cohorts from optimized length distributions.					
Year class	Mean length	Sigma	Fraction of all fish	Population million N	Biomass 1 000 t	
1991 1990 1989	33.7 40.3 50.4	2.5 2.5 3.5	0.11 0.35 0.536 0.004	3.5 11 17 0.03	0.9 5.0 14.0 0.1	

4 CONSIDERATIONS ON THE SURVEY RESULTS

The present survey is the 9th in a series started in early 1990, covering the distribution of the hake stocks over the whole Namibian shelf. Table 17 shows the effort spent in these investigations. Due to technical problems, the effort in the last survey was reduced, about 25% lower than in the previous survey. The reduced effort will also give a reduced precision in the biomass estimates.

			990-1994. Number of length measure		
Survey		Orange R St. Francis Bay	St. Francis Bay- Ambrose Bay	Ambrose Bay- Cunene River	Total
1/1990	No. stations	59	73	37	169
25.1-	No. samples	37	73	25	114
10.3	No. measured	6.0	10.7	2.6	18.6
3/1990	No. stations	44	51	34	129
11.9-	No. samples	68	106	77	251
6.10	No. measured	9.3	10.3	5.6	25.2
1/1991	No. stations	41	77	56	174
25.1-	No. samples	104	170	114	388
28.2	No. measured	6.8	13.3	6.9	27.0
2/1991	No. stations	52	69	49	170
23.10-	No. samples	110	132	110	352
21.11	No. measured	7.1	14.3	9.6	31.0
1/1992	No. stations	57	60	47	164
23.4-	No. samples	136	141	102	379
21.5	No. measured	9.0	11.2	8.2	28.4
2/1992	No. stations	64	78	50	192
20.10-	No. samples	188	169	143	500
1.12	No. measured	13.1	13.4	7.8	34.3
1/1993	No. stations	72	56	56	184
20.1-	No. samples	197	162	118	477
25.2	No. measured	12.7	11.9	7.6	32.2
2/1993	No. stations	61	78	69	208
22.4-	No. samples	173	202	163	538
25.5	No. measured	10.8	13.9	10.2	34.9
1/1994	No. stations No. samples No. measured	52	54	46	152
19.1-		146	165	112	423
21.2		9.5	11.1	7.4	28.0

The mid-water behaviour of the hake has caused problems for several of the trawl surveys in the past. Improved acoustic technology has made it possible to establish a technique that can reduce the effect of this behaviour on the estimates. In the last three surveys the pelagic behaviour is believed to have caused some underestimate in the biomass, especially in the Northern Region.

A summary of the estimates of the mean density of the hakes by depth strata is shown in Table 18. The difference in the depth distribution between the two species is clearly demonstrated. For the Cape hake, the densities in the shallow range 100-250m mainly reflects the strength of the young recruits 2-3 years of age that occupy this zone. These densities are consistent with previous surveys, with exception for survey 2/92, when extreme high densities were recorded in the Central Region. The densities in the deeper zones mainly reflect the state of the fishable part of the hake stock. The reduction in the densities at all depths beyond 250m in the Central Region should be given particular attention.

Table 19 shows a summary of the biomass estimates for the two stocks of hakes by regions and surveys. The total country estimates of the fishable biomass and recruits have also been summarized graphically in Figure 12. A worrying feature is the persistant declining trend in the fishable biomass of the Cape hake over the last year. This reduction is located in the Central and Northern Regions, while in the Southern Region the level is the same as in the two previous surveys (Table 19).

The deep-water hake do not show remarkable changes, except for an increase in this survey that can be ascribed to seasonal variability and to the better precision of measuring the effective trawling time in deep water hauls.

As mentioned above some caution should be applied when interpreting the biomass estimates on the Cape hake. The reduced effort in the last survey may give a reduced precision. Furthermore, although the pelagic phase of the Cape hake in the north and Central regions has been estimated acoustically, there might still be a bias towards underestimation. However, Table 19 and Figure 12 seem to indicate that the major part of the hake quota is harvested on the Cape hake in the Central and Northern regions, while the deep water hake in Namibia is underutilized together with the Cape hake in the Southern Region. This probable harvest pattern should give reason for concern.

	100-250m	250-350m	350-450m	450-550m
SOUTHERN REGION				
Cape hake				
1/90	21.9	4.4	1	
3/90	11.5	6.1	0.1	
1/91	11.3	8.8	0.9	
2/91	6.3	12.5	0.7	0.7
1/92	12.6	28.4	4.6	
2/92	11.6	12.2	1.1	0.2
1/93	14.2	25.4	7.2	0.3
2/93	11.0	18.2	4.7	0.0
1/94	11.0	49.1	0.5	0.1
Deep water hake	11.0	75.1	0.5	0.1
1/90		1.4	5.0	1.2
3/90	0.1	6.3	1.2	0.4
	U.1	4.4	6.0	1.1
1/91	0.3		1	
2/91	0.3	8.9	14.9	4.9
1/92		8.9	34.8	4.0
2/92	1.7	7.9	23.8	14.2
1/93	0.2	44.2	26.3	10.3
2/93	0.1	5.1	31.5	12.1
1/94	0.1	13.0	37.0	9.6
CENTRAL REGION				
Cape hake				
1/90	27.1	7.4	0.4	
3/90	38.6	8.3	2.5	
1/91	14.5	9.1	2.2	
2/91	34.2	19.0	7.2	1.0
1/92	36.5	14.6	8.5	1.7
2/92	53.6	20.1	10.5	0.8
1/93	34.1	9.5	8.9	0.3
2/93	34.4	23.8	4.6	0.6
1/94	33.0	10.7	1.3	0.0
Deep water hake	55.0	10.7	1.5	
1/90			1.6	1.4
3/90	0.2	0.4	0.9	0.9
3/90 1/91	0.2 0.2	0.4	0.9	0.9
2/91	U. 2	0.1	5.3	5.6
		1.3		
1/92			6.8	1.6
2/92		0.3	3.1	4.1
1/93		0.3	2.8	4.3
2/93		0.6	4.6	6.0
1/94		0.6	11.7	12.6
NORTHERN REGION				
Cape hake				
1/90	41.3	20.9	1.0	
3/90	25.9	15.1		
1/91	15.0	27.0	11.5	
2/91	13.6	23.5	24.3	4.3
1/92	25.4	26.1	15.5	7.5
2/92	29.6	18.6	17.6	
1/93	13.7	23.2	14.7	2.8
2/93	9.3	16.5	12.8	2.8 2.3
2/93 1/94	9.3 12.4	6.3	24.0	2.3 2.3

			TOTA	L BIOM	IASS				
	Feb-Mar 1990	Sep-Oct 1990	Jan-Feb 1991	Oct-Nov 1991	Apr-May 1992	Oct-Nov 1992	Jan-Feb 1993	Apr-May 1993	Jan-Feb 1994
SOUTH REGION Cape hake Deep water hake	130 22	130 25	126 31	80 83	200 145	160 125	210 150	180 115	200 160
CENTR. REGION Cape hake Deep water hake	180 4	219 6	150 6	302 13	261 15	542 15	280 12	280 20	225 30
NORTH REGION Cape hake Deep water hake	180	105*	200	140 2	185 4	190 8	150 4	110 6	92 20
TOTAL	516	485*	513	620	810	1040	810	710	737
			FISHA	BLE BIG	OMASS				
SOUTH REGION Cape hake Deep water hake				42 42	145 113	75 80	115 123	94 95	112 114
CENTR. REGION Cape hake Deep water hake				140 (13)	85 15	170 15	150 9	118 16	50 26
NORTH REGION Cape hake Deep water hake				135	143	143	113	88	74 19
FISHABLE									
Cape hake	200	270*	280	320	370	390	380	300	240
Deep water hake	20	20*	20	50	130	100	140	120	160
TOTAL FISHABLE	220	290*	300	370	503	490	520	420	400

^{*} Unadjusted underestimate due to fish off the bottom.

Figure 13 shows the development of the relative share of the fishable biomass of Cape hake in the regions for the last three years. The figure demonstrates that the Southern Region, which in October 1991 only represented a 13% share of the biomass, in the last survey had increased to 48%. In the same period the biomass in the Central Region was reduced from 44 to 21% and in the north from 43 to 31%.

For the years 1990-1994 the TAC on the hakes was allocated for the two species combined, and calculated on basis of the estimated fishable biomass of the two species. If the TAC is close to the surplus production of the two species and the catch is harvested on one species only, an overexploitation on this species and an underexploitation of the other is the obvious result.

In the previous cruise report, from the survey in May 1992, concern was expressed about the culmination in the development of the fishable biomass on the Cape hake. It was recommended

to investigate the development on the CPUE in the fisheries in the same period to see if the same pattern could be confirmed from these data. These results are unfortunately not yet available. It is strongly recommended that such work is given a high priority.

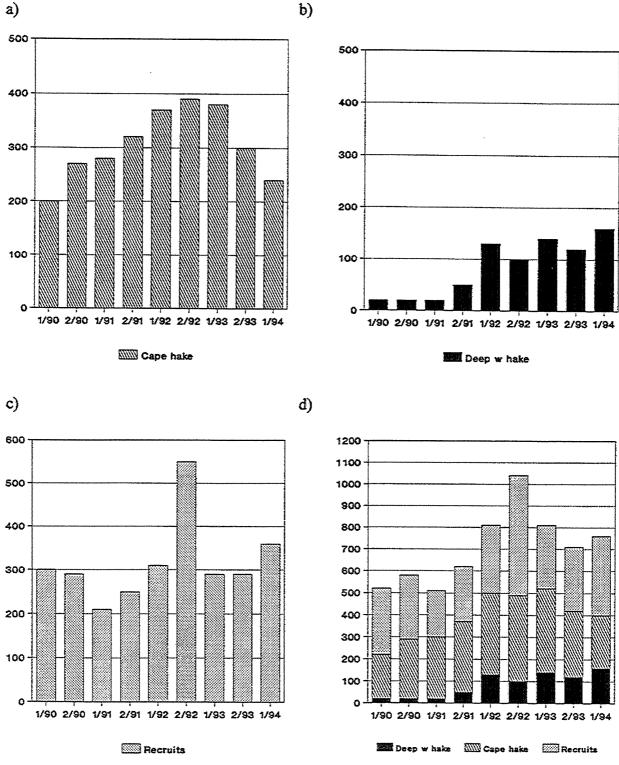


Figure 12 Trends in biomass estimates: a) Cape hake, 'fishable stock', b) deep water hake, 'fishable' stock, c) recruits ('non-fishable' biomass) and d) total hake in Namibia. Thousand tonnes.

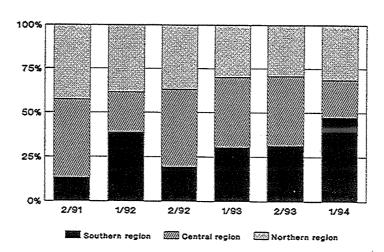


Figure 13 Relative regional share of fishable biomass of Cape hake 1991-94.

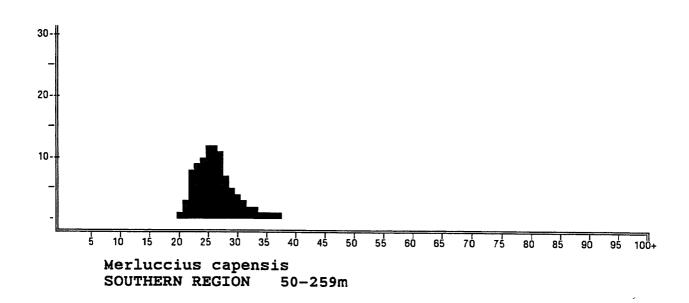
Further conclusions concerning the state of the hake stocks should await the results from CPUE study and confirmation from the forthcoming hake survey in May 1994.

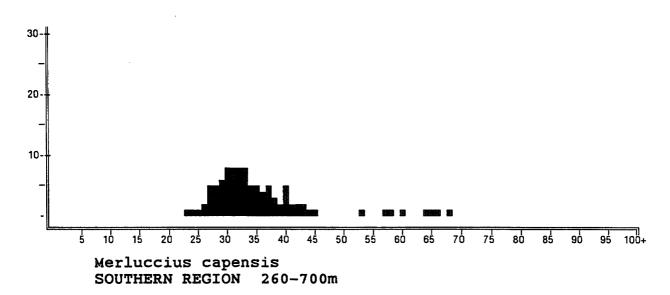
A management practice that will ensure a more balanced harvest of the two hake species is however strongly recommended. Administratively the solution would perhaps be to direct the fisheries by regions. To allow a more selective management we will in this and future reports present the fishable hake biomass by species and regions.

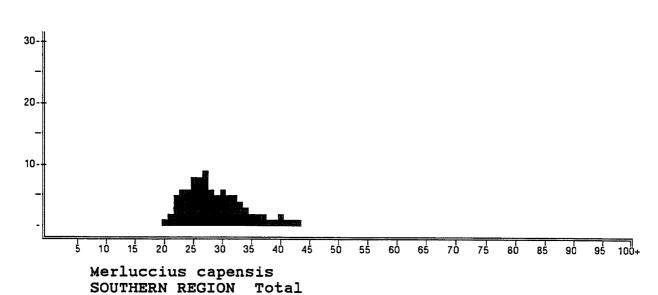
The recruitment to the stock of Cape hake can be estimated from the numerical abundance of the two year old fish. The estimates for the 1992 yearclass based on the current survey data are shown in Table 20 together with previous observations. The 1992 yearclass is close to the level of the 1991 class measured during survey 1/93 after its strong decimation at the end of 1992. A 'normal' recruitment level after two years seems to be around 2 billion fish ±200 million (Table 19) and the 1992 yearclass falls within this range.

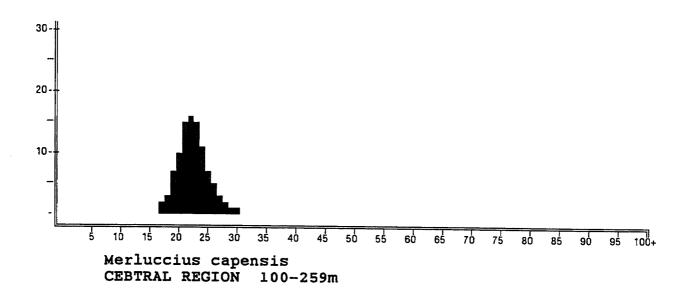
Table 20 Estimates of strength of recent yearclasses of Cape hake. Cohort population numbers at about two years of age for the groups assumed to have been spawned in 1988, 1989, 1990, 1991 and 1992. Millions of fish.								
Yearclass	1988	1989	1990	1990	1991	1991	1991	1992
Southern region	980	100	160	300	990	670	390	250
Central region	1 320	170	1 710	1 620	3 500	1 230	1 370	1 880
Northern region	10	10	20	240	440	270	130	70
Total	2 310	280	1 890	2 160	4 930	2 170	1 890	2 200
Survey/Year	1/90	1/91	2/91	1/92	2/92	1/93	2/93	1/94

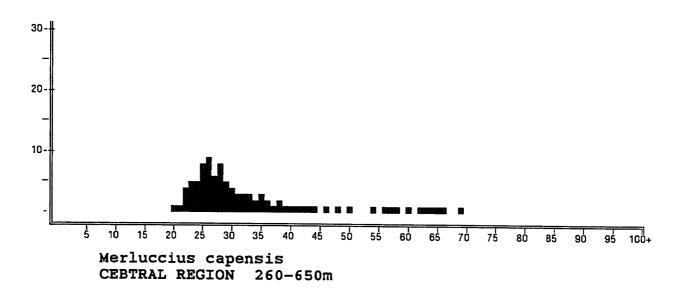
Annex I Size composition of main stocks

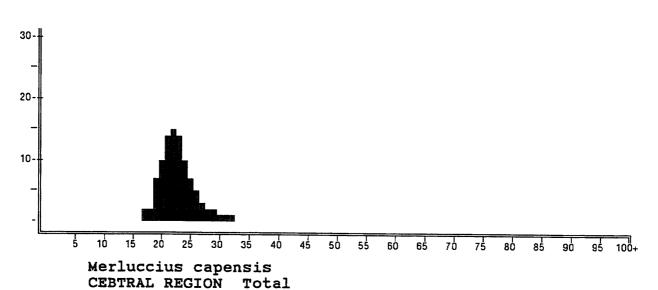


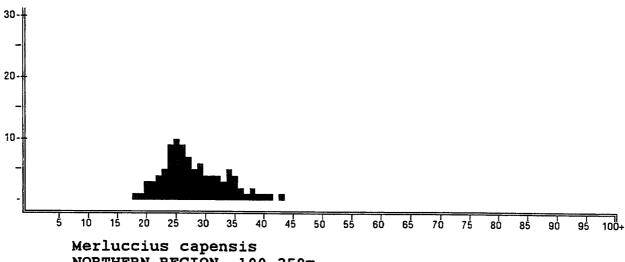


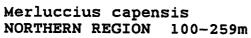


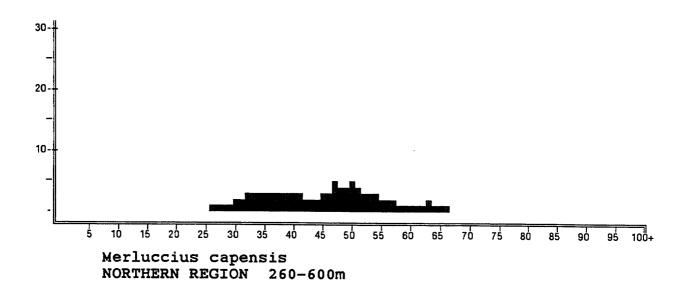


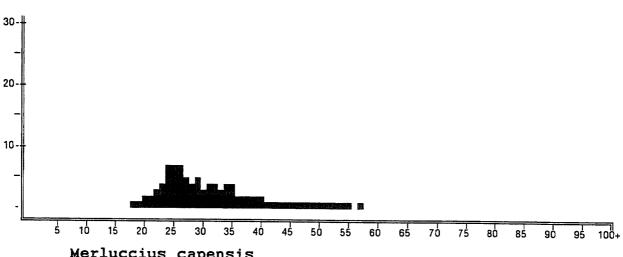




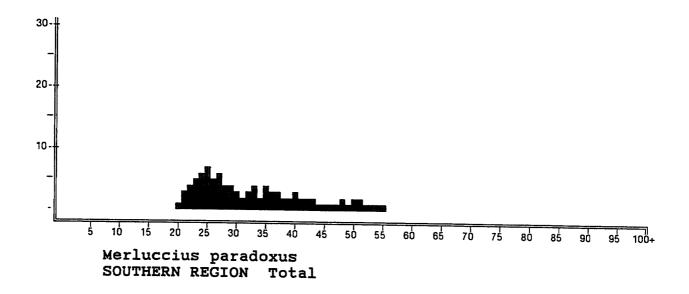


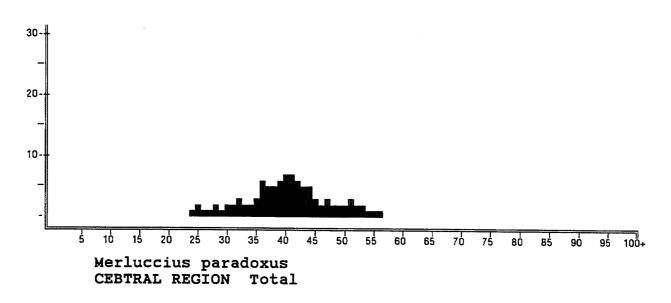


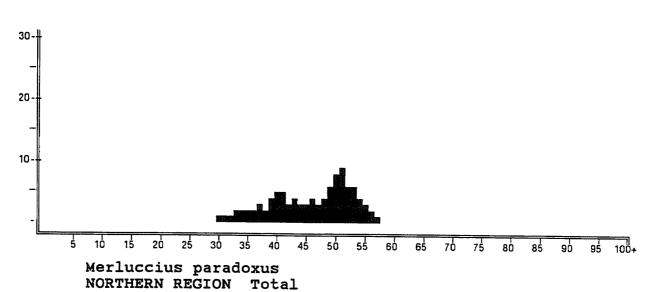




Merluccius capensis NORTHERN REGION Total





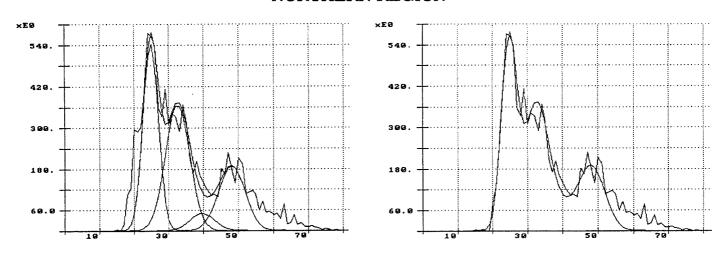


ANNEX II

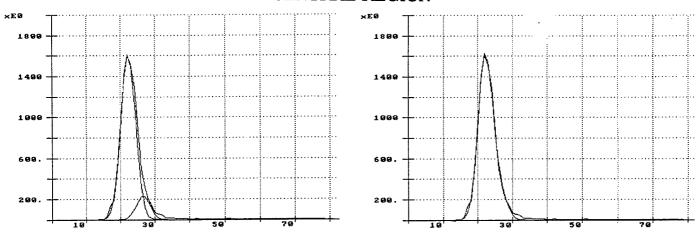
The size composition of the hake stocks split into length cohorts through optimizing techniques.

CAPE HAKE

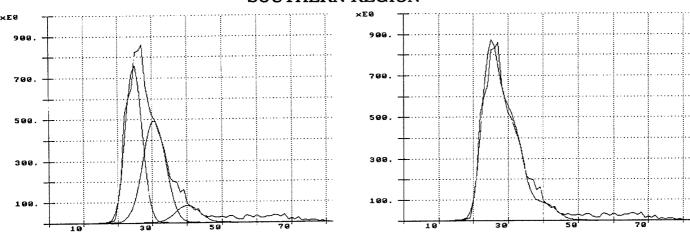
NORTHERN REGION



CENTRAL REGION



SOUTHERN REGION



The length frequency distribution with the estimated cohorts.

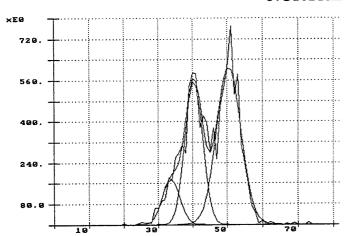
The length frequency distribution with the resultant distribution explained by the estimated cohorts

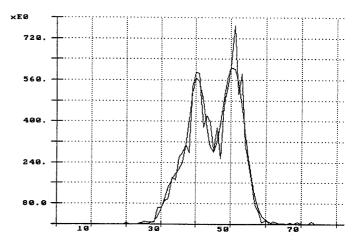
ANNEX II

The size composition of the hake stocks split into length cohorts through optimizing techniques.

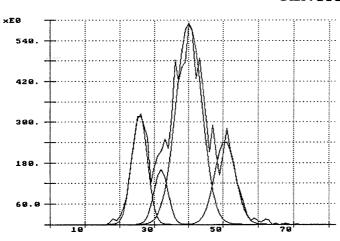
DEEP WATER HAKE

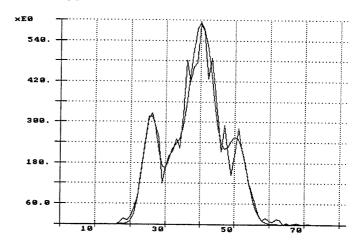
NORTHERN REGION



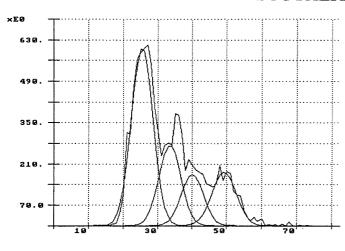


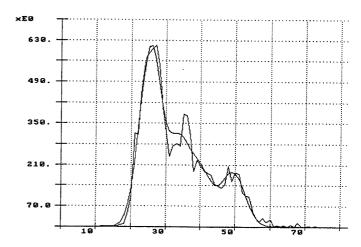
CENTRAL REGION





SOUTHERN REGION





The length frequency distribution with the estimated cohorts.

The length frequency distribution with the resultant distribution explained by the estimated cohorts

Annex III Records of fishing stations

4:,0

			4:0
TVDP. BT No.1		CT STATION	: 1
,		Long E	
Area code	: 1		
Validity	code :	10	
h: 1978.00			6.00
CATCH/HO	ur 1 c	г тот. с	SAMP
weight nu	mbers		3
1336.00	1254	33.77	-
119.60	512	3.02	2
77.00	28	1.95	4
14.20	2940 1334	0.36	
13.90 5.80	14 784	0.35 0.15	1
3.42 3.30	256 10	0.09	
3955.02	-	99.99	
n	POSITIO	N:Lat S	
min) Purpose o Area code			
GearCond. Validity	code:		
ıt: 550 m. Sp ee	d: 34 km²	10	
ch: 431.00	CATCH/	HOUR: 8	62.00
weight no	mbers	F TOT. C	SAMP
3 386.C0 1	22652	44.78 14.55	
2 112.40	8	13.04	6
44.40	50	5.15	7
7 30.00	372	3.48	9
7 11.20	8	1.30	8
	14 28	0.57 0.39	
7, 3.40	-==		
1.00	220 4	0.26 0.21	5
3.40 2.20 1.80 0.70 0.50	220		5
0.70	220 4 42	0.21	5
0.70	220 4 42	0.21 0.08 0.06	5
0.70 0.50 	220 4 42 28	0.21 0.08 0.06 99.88	N: 3
0.70 0.50 	220 4 42 28 28 PROJ POSITI	0.21 0.08 0.06 99.88	N: 3 2859
860.90 TYPE: BT No:1	220 4 42 28 PROJ POSITI	0.21 0.08 0.06 99.88	N: 3 2859
860.90 TYPE: BT No:1 min) Purpose area code GearCond Validity	220 4 4 2 28 PROJ POSITI code: 3 : code: code:	0.21 0.08 0.06 99.88 ECT STATIO ON:Lat S Long E	N: 3 2859
860.90 TYPE: BT No:1 min) Purpose a Area code GearCond	220 4 4 2 28 PROJ POSITI code: 3 : code: code:	0.21 0.08 0.06 99.88	N: 3 2859
860.90 TYPE: BT No:1 min) Purpose a Area code GearCond Validity ut: 650 m Spee	PROJ POSITI	0.21 0.08 0.06 99.88	N: 3 2859 : 1539
1.00 0.70 0.50 860.90 1. TYPE: BT No:1 n min) Putpose a Area code Validity ut: 650 m Spee ch: 268.88	PROJ POSITI	0.21 0.08 0.06 99.88 ECT STATIO ON:Lat S Long E	N: 3 2859 : 1539
1.00 0.70 0.50 860.90 860.90 1. TYPE: BT No:1 n min) Putpose a Area code Validity ut: 650 m Spee ch: 268.88 CATCH/M weight m 119.66	PROJ POSITI Code: 3 : code: code: code: kn CATCH/	0.21 0.08 0.06 99.88 ECT STATIO ON:Lat S Long E	N: 3 2859 : 1539 50.94 SAMP
BET NO: 1 TYPE: BT NO: 1 Min) Purpose of Area code Validity ut: 650 m Spee ch: 268.88 CATCH/H weight m 119.66 106.29 35.46 35.91	PROJ POSITI Code: 3 : code: code: code: xode: 32 kn CATCH/	0.21 0.08 0.06 99.88 ECT STATIO ON:Lat S Long E *10 HOUR: 4	N: 3 2859 : 1539 50.94 SAMP
1.00 0.70 0.50 860.90 860.90 860.90 870.00 10.00 80.00	PROJ POSITI Code: 3 code: 1 code: 3 code: 2 7 d: 32 kn CATCH/ DUR 1 Jumbers 77 2784 202 93 948	0.21 0.08 0.06 99.88 ECT STATIO DN:Lat S Long E *10 HOUR: 4 0F TOT. C 25.96 23.06 18.59 7.79 5.21 2.79	N: 3 2859 : 1539 50.94 SAMP
1.00 0.70 0.50 860.90 860.90 860.90 870.00 8	PROJ POSITI Code: 3 code: 3 code: 3 code: 77 2784 202 93 948 9 12 173	0.21 0.08 0.06 99.88 0.06 99.88 ECT STATIO DN:Lat S Long E	N: 3 2859 : 1539 50.94 SAMP
1.00 0.70 0.50 860.90 860.90 860.90 9 Purpose a Area code Gearcond Validity ut: 650 m Spee c.ch: 268.88 CATCH/M weight nu 119.6 29 95.46 35.91 24.00 12.86 12.51 12.34 12.34	220 4 42 28 PROJ POSITI code: 3 : 1 .code: code: code: code: code: code: 22 km CATCH/ DUR 1 Imbers 77 2784 202 93 948 948 91	0.21 0.08 0.06 99.88 0.06 99.88 ECT STATIO ON:Lat S 10ng E	N: 3 2859 : 1539 50.94 SAMP
1.80 0.70 0.50 860.90 860.90 860.90 860.90 9 Area code GearCond Validity ut: 650 m Spee c.ch: 268.88 CATCH/H weight en 119.66 106.29 35.46 35.91 24.00 12.86 12.51 12.41 12.34 12.26 7.11	220 4 42 28 PROJ POSITI code: 3 : : 1 .code: code: code: dd: 32 km CATCH/ DUR 1 2784 202 93 948 948 91 12 173 26 33 403	0.21 0.08 0.06 99.88 0.06 99.88 ECT STATIO DN:Lat S Long E 10 410 25.96 23.06 18.54 7.29 2.79 2.79 2.69 2.66 1.54	N: 3 2859 : 1539
1.80 0.70 0.50 860.90 860.90 860.90 860.90 9 Area code GearCond Validity ut: 650 m Spee c.ch: 268.88 CATCH/H weight m 119.66 106.29 35.46 35.91 24.00 12.86 12.51 12.41 12.34 12.26 7.11 6.17 5.57	220 4 42 28 PROJPOSITI code: 3 1: 1 code: code: code: dd: 32 km CATCH/ DUR 1 279 2784 9 12 173 26 33 46 372	0.21 0.08 0.06 99.88 0.06 99.88 ECT STATIO DN:Lat S Long E 10 410 25.96 23.06 18.54 7.29 2.71 2.69 2.66 1.54 1.21	N: 3 2859: 1539 560.94 SAMP 12 11 10
1.80 0.70 0.50 860.90 860.90 860.90 860.90 870.	PROJ PROJ POSITI code: 3 code: code: code: dd: 32 km PROJ POSITI code: 32 km PROJ POSITI code: 12 km PROJ POSITI code: 32 km PROJ POSITI POSI	0.21 0.08 0.06 99.88 0.06 0.06 0.00 0.00 0.00 0.00 0.00 0	N: 3 2859: 1539 560.94 SAMP 12 11 10
1.80 0.70 0.50 860.90 860.90 860.90 860.90 870.00 870.	PROJ PROJ POSITI code: 3 code: code: code: dd: 32 km PROJ POSITI code: 32 km PROJ POSITI code: 32 km PROJ POSITI code: 32 km PROJ POSITI POSI	0.21 0.08 0.06 99.88 0.06 0.06 0.00 0.00 0.00 0.00 0.00 0	N: 3 2859: 1539 560.94 SAMP 12 11 10
1.00 0.70 0.70 0.50 860.90 860.90 860.90 860.90 870.00	PROJ 42 28 PROJ POSITI code: 3 code: 32 code: 77 2784 202 93 948 9 12 12 13 403 483 372 539 12 22 25 5	0.21 0.08 0.06 99.88 0.06 0.06 0.00 0.00 0.00 0.00 0.00 0	N: 3 2859 : 1539 50.94 SAMP
1.89 0.70 0.50 860.90 860.90 860.90 860.90 860.90 870 870 870 870 870 870 870 870 870 87	PROJ POSITI CODE: 3 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1	0.21 0.08 0.06 99.88 0.06 99.88 ECT STATIO ON:Lat S Long E 10 25.96 23.06 18.54 17.79 2.79 2.79 2.79 2.69 2.66 1.34 1.21 0.56 0.37 0.30 0.25	N: 3 2859: 1539 560.94 SAMP 12 11 10
	min) Purpose characode GearCond. Validity t: 400 m Speech: 1978.00 CATCH/HO Weight nu 1996.00 240.00 119.60 108.40 77.00 37.04 31.90 5.80 3.42 3.30 3955.02 TYPE: BT No:1 n Purpose characode GearCond. Validity validity 125.40 2125.40 2125.40 30.00 14.80 82.20 444.40 82.20 444.40 82.20 444.40 82.20 444.80 30.00 14.00	Area code: 3 Area code: 1 GearCond.code: Validity code: t: 400 m Speed: 33 km* ch: 1978.00 CATCH/H CATCH/HOUR 10 Weight numbers 1996.00 240958 1336.00 1254 240.00 2196 119.60 512 108.40 456 77.00 28 37.46 2940 14.20 1134 13.90 14 5.80 784 3.42 256 3.30 10 3955.02 TYPE: BT No:1 POSITION min) Purpose code: 3 Area code: 1 GearCond.code: Validity code: 3 Area code: 34 km* ch: 431.00 CATCH/HOUR CATCH/HOUR 20 CATCH/HOUR 20 CATCH/HOUR 366.00 1125.40 2216 212.40 812.20 854 44.40 550	Long E Long E

			OJECT STATION	
	E: BT No:	l Posi		2912
start stop duration	_	_		1522
TIME :19:08:00 19:36:00 28 (min)			3	
LOG :9927.70 9929.20 1.50	Area cod		1	
FDEPTH: 177 180	GearCond			
BDEPTH: 177 180	Validity			
Towing dir: 220° Wire out:	650 m Spe	ed: 34	kn*10	
Sorted: 246 Kg Total catch:	1586.74	CATC	CH/HOUR: 340	00.16
SPECIES	CATCH/	OUR	N OF TOT. C	SAMP
	weight i	umbers		
Emmelichthys nitidus	2084.64	3887	61.31	18
Trachurus capensis	424.16	1202	12.47	19
Merluccius capensis, female	163.93	178	4.82	16
Sepia australis	115.84	8059	3.41	
Merluccius paradoxus, juvenile	109.84	4157	3.23	17
Etrumeus whiteheadi	109.29	1314	3.21	20
Helicolenus dactylopterus	78.96	1352	2.32	
Callorhinchus capensis	50.55	69	1.49	
Holohalaelurus regani	47.27	231	1.39	
Cynoglossus capensis	45.49	996	1.34	
Galeorhinus galeus	40.50	2	1.19	
Todaropsis eblanae	29.79	315	0.88	
Lophius vomerinus	29.10	28	0.86	
Chelidonichthys capensis	19.14	56	0.56	
Genypterus capensis	15.02	13	0.44	
Merluccius capensis, male	11.61	28	0.34	15
Paracallionymus costatus	10.24	1106	0.30	
Squalus megalops	6.43	13	0.19	
Merluccius paradoxus, female	2.74	28	0.08	
Zeus capensis	2.06	56	0.06	
Congiopodus spinifer	1.78	56	0.05	
Lepidopus caudatus	1.09	13	0.03	
Merluccius paradoxus, male	0.69	13	0.02	
Squilla acuelata calmani	0.00	13		
Total	3400.16		99.99	
		PJ	ROJECT STATIO	N: 5

		PROJEC	T STATION	1: 5
DATE: 22/ 1/94 GEAR TYPE	PE: BT No:1	POSITION		2934
start stop duration			Long E	1441
TIME :01:12:00 01:42:00 30 (min)	Purpose cod	e: 3	,	
LOG : 975.60 976.80 1.20	Area code	: 1		
FDEPTH: 364 336	GearCond.co	de:		
EDEPTH: 364 335	Validity co	de:		
Towing dir: 350° Wire out:1	200 m Speed:	30 kn*1	0	
Sorted: Kg Total catch:	184.90	CATCH/HC	UR: 36	9.80
SPECIES	CATCH/HOUR		TOT. C	SAMP
	weight numb	ers 386	32.48	21
Merluccius paradoxus, female Merluccius paradoxus, male		204	16.12	21
Genypterus capensis	49.40	32	13.36	23
Zeus capensis	33.20	42	8.98	23
Coelorinchus fasciatus		408	8.11	
Epigonus denticulatus		336	7.08	
Malacocephalus laevis	20.80	34	5.62	
Helicolenus dactylopterus	9.90	58	2.68	
Holohalaelurus regani	9.20	42	2.49	
Scyliorhinus capensis	7.86	8	2.13	
CHIMAERIDAE	3.44	4	0.93	
OPHICHTHIDAE	0.00	2		
Total	369.70	_	99.98	

DATE: 22/ 1/94 GEAR TYF start stop duration TIME :04:09:00 04:39:00 30 (min) LOG :9991.70 9993.10 1.30 FDEPTH: 475 474 BDEPTH: 475 474 Towing dir: 350* Wire out:1	PE: BT No:1 POS Purpose code: Area code: GearCond.code: Validity code:	ROJECT STATION: ITION:Lat S Long E 3 1 kn*10	2921 1430
Sorted: Kg Total catch:	154.00 CAT	CH/HOUR: 30	8.00
SPECIES	CATCH/HOUR weight numbers	% OF TOT. C	SAMP
Merluccius paradoxus, female	weight numbers 144.00 202		25
Merluccius paradoxus, male Helicolenus dactylopterus RAJIDAE Deepwater fish mixture Raja leopardus	55.60 94 35.60 186 14.90 2 13.38 10.32 6	18.05 11.56	24
lophius vomerinus Zeus capensis Hydrolagus sp. OPHICHTHIDAE Halacocephalus laevis Todaropsis eblanae Lamprogrammus exutus Etmopterus lucifer Holohalaelurus regani Notacanthus sexspinis Yarella blackfordi	7.66 4 5.52 2 5.04 5 4.70 85 4.00 24 2.40 4 1.72 24 1.00 0.56 4 0.52 12 0.46 24	2.49 1.79 1.64 1.53 1.30 0.78 0.56 0.32	26
Total	307.38	99.80	

				PROJECT	STAT	ION	: 7
DATE: 22/ 1/94	GE	EAR TYPE: BT	No:1	POSITION:	Lat	s	2918
start	stop durat	ion			Long	Е	1436
TIME :06:29:00	06:59:00 30	(min) Pur	pose code	e: 3			
LOG : 2.00	3.70 1.70	Are	a code	: 1			
FDEPTH: 312	325	Gea	rCond.cod	de:			
BDEPTH: 312	325	Val	idity cod	de:			
Towing d	ir 350° Wire	Out - 950 m	Speed.	33 kn*10			

Sorted: 211 Kg Total catch: 790.49 CATCH/HOUR: 1580.98

SPECIES	CATCH	/HOUR	OF TOT. C	SAMP
	weight	numbers		
Zeus capensis	698.30	1126	44.17	
Merluccius paradoxus, female	173.00	144	10.94	31
Epigonus pandionis	146.60	3420	9.27	
Merluccius capensis, female	143.20	52	9.06	29
Merluccius paradoxus	96.50	944	6.10	32
Merluccius paradoxus, male	86,70	110	5.48	30
Genypterus capensis	63.80	38	4.04	27
Coelorinchus fasciatus	50.60	1090	3.20	
Helicolenus dactylopterus	31.90	136	2.02	
Merluccius capensis, male	21.60	8	1.37	28
Scyliorhinus capensis	17.40	26	1.10	
Malacocephalus laevis	15.90	68	1.01	
Squalus megalops	12.20	8	0.77	
Scomber japonicus	11.10	8	0.70	
Holohalaelurus regani	7,20	26	0.46	
Lepidopus caudatus	3.40	34	0.22	
Cynoglossus capensis	1.90	34	0.12	
Paracallionymus costatus	1.30	154	0.08	
Total	1582.60		100.11	

		PROJECT ST	
	YPE: BT No:1	POSITION: Lat	
start stop duration		Lon	g E 1447
TIME :09:27:00 09:57:00 30 (mi			
LOG : 19.10 20.70 1.60	Area code		
FDEPTH: 209 210	GearCond.		
BDEPTH: 209 210	Validity		
Towing dir: 360° Wire out	: 650 m Speed	1: 29 kn*10	
Sorted: 263 Kg Total catch	: 263.00	CATCH/HOUR:	526.00
SPECIES	CATCH/HO	UR % OF TOT	C SAMP
0.00.00		mbers	
Lepidopus caudatus	180.20	210 34.	26
Merluccius capensis, female	87.60	44 16.	
Trachurus capensis	31.80		05 36
Thyrsites atun	29.10		53
Scyliorhinus capensis	29.00		51
Merluccius capensis, male	22.50		28 33
Congiopodus torvus	16.90		21
Lophius vomerinus	15.88		02 37
Chelidonichthys capensis	15.70		98
Cynoglossus capensis	12.12	134 2.	30
Holohalaelurus regani	12.10		30
Helicolenus dactylopterus	11.90	164 2.	26
Sepia australis	10.22		94
Merluccius paradoxus	9.50	164 1.	81 35
Etrumeus whiteheadi	8.18	86 1.	56 38
Emmelichthys nitidus	7.40	122 1.	41
Paracallionymus costatus	6.26	872 1.	19
Zeus capensis	4.76	10 0.	90
Scomber japonicus	2.44	2 0.	46
Todarodes sagittatus	2.10		40
Squalus megalops	1.70	4 0.	32
Merluccius paradoxus, female	1.70	6 0.	32
Loligo vulgaris	1.32	6 0.	25
Congiopodus spinifer	1.16	10 0.	22
Raja caudaspinosa	1.04	2 0.	20
Arnoglossus capensis	1.04	44 0.	20
Todaropsis eblanae	0.74	18 0.	14
Merluccius paradoxus, male	0.42		08
Epigonus denticulatus	0.04	2 0.	01
Neorossia sp.	0.04		01
Total	524.86	99.	77

		PROJECT STAT	ION: 9
DATE: 22/ 1/94	GEAR TYPE: BT No:1	POSITION: Lat	s 2908
start stop	duration	Long	E 1454
TIME :11:28:00 11:58:	00 30 (min) Purpose co	de: 3	
LOG : 29.90 31.7	70 1.80 Area code	: 1	
FDEPTH: 191 18	35 GearCond.c	ode:	
BDEPTH: 191 18	35 Validity o	:ode :	
Towing dir: 360) Wire out: 650 m Speed	: 35 kn*10	
Sorted: 181 Kg	Total catch: 181.70	CATCH/HOUR:	363.40

SPECIES	CATCH	/HOUR	N OF TOT. C	SAMP
	weight	numbers		
Trachurus capensis	76.40	186	21.02	42
Merluccius capensis, female	58.80	30	16.18	40
Lophius vomerinus	45.70	14	12.58	44
Helicolenus dactylopterus	24.60	194	6.77	
Chelidonichthys capensis	23.70	98	6.52	
Merluccius capensis, juveniles	20.90	1014	5.75	41
Zeus capensis	20.40	158	5.61	
Emmelichthys nitidus	18.70	302	5.15	45
Etrumeus whiteheadi	15.10	150	4.16	46
Thyrsites atun	15.00	4	4.13	4.3
Cynoglossus capensis	11.68	164	3.21	
Sepia australis	11.20	676	3.08	
Holohalaelurus regani	5.70	18	1.57	
Lepidopus caudatus	5.00	66	1.38	
Merluccius capensis, male	4.10	4	1.13	39
Todarodes sagittatus	3.64	72	1.00	
Raja straeleni	2.40	2	0.66	
Congiopodus spinifer	0.40	6	0.11	
OREOSOMATIDAE	0.00	2 2		
Notopogon macrosolen	0.00	2		
Total	363.42		100.01	

	PROJECT STAT	'ION: 10
DATE: 22/ 1/94 GEAR TYPE: BT No:1	POSITION: Lat	S 2901
start stop duration	Long	E 1506
TIME :14:35:00 14:50:00 15 (min) Purpose cod	de: 3	
LOG : 46.10 47.00 0.90 Area code	: 1	
FDEPTH: 167 169 GearCond.co	ode: 8	
BDEPTH: 167 169 Validity co	ode:	
Towing dir: 345° Wire out: 600 m Speed:	30 kn*10	
Sorted: 94 Kg Total catch: 280.70	CATCH/HOUR:	1122.80

SPECIES	CATCH	/HOUR	OF TOT. C	SAMP
	weight	numbers		
Trachurus capensis	697.60	2000	62.13	52
Helicolenus dactylopterus	149.60	1920	13.32	
Merluccius capensis, female	79.40	60	7.07	48
Callorhinchus capensis	57.28	32	5.10	
Lepidopus caudatus	24.00	32	2.14	
Etrumeus whiteheadi	20.00	240	1.78	
Thyrsites atun	17.40	8	1.55	51
Merluccius capensis, male	16.00	8	1.43	47
Chelidonichthys capensis	13.92	128	1.24	
Cynoglossus capensis	11.20	128	1.00	
Lophius vomerinus	11.08	8	0.99	49
Centrophorus squamosus	7.36	16	0.66	
Congiopodus spinifer	7.20	32	0.64	
Sepia australis	6.56	416	0.58	
Callanthias legras	2.08	16	0.19	
Genypterus capensis	1.80	4	0.16	50
Zeus capensis	0.32	32	0.03	
Total	1122.80		100.01	

						E	PROJECT	STAT	CION	: 11
DATE: 23	/ 1/94		GE	AR TYP	E: BT No:	l P08	SITION:	Lat	s	2854
	start	stop	durat:	ion				Long	Ε	1516
TIME :	06:38:00	07:06:00	28	(min)	Purpose	code:	3	-		
LOG :	96.80	98.40	1.60		Area cod	ie :	: 1			
FDEPTH:	150	150			GearCond	d. code :	. 7			
BDEPTH:	150	150			Validity	code:	: 3			
	Touring o	4i 25A+	tili va	out.	.00 - 0-	. 27	1 tm = 10			

Sorted: 138 Kg Total catch: 219.06 CATCH/HOUR: 469.41

SPECIES	CATCH	/HOUR	OF TOT. C	SAMP
	weight	numbers		
Etrumeus whiteheadi	158.57	1933	33.78	
Merluccius capensis, female	91.71	54	19.54	54
Merluccius capensis, male	47.68	49	10.16	53
Mustelus palumbes	36.96	28	7.87	
Chelidonichthys capensis	36.43	71	7.76	
Squalus megalops	31.35	156	6.68	
Lophius vomerinus	26.79	24	5.71	55
Callorhinchus capensis	10.71	6	2.28	
Holohalaelurus regani	6.17	21	1.31	
Trachurus capensis	5.89	28	1.25	56
Cynoglossus capensis	4.56	39	0.97	
Raja straeleni	4.07	2	0.87	
Sepia australis	3.17	221	0.68	
Todaropsis eblanae	1.35	39	0.29	
Paracallionymus costatus	1.29	199	0.27	
Emmelichthys nitidus	1.14	114	0.24	
Zeus capensis	1.03	32	0.22	
Congiopodus spinifer	0.54	6	0.12	
Total	469.41		100.00	

															: 12
DATE: 24	1/	1/94			GE	AR TY	PE: E	T	No: I	PO	SITI	ON:	Lat	s	2854
		start	s	top	durat	ion							Long	E	1516
TIME :	0	6:27:0	0 06	:57:00	30	(min) Pt	rpe	ose co	de:	3		-		
LOG :		165.10	1	66.70	1.60		A	ea	code		: 1				
FDEPTH:		150		150			Ge	are	Cond.c	ode	:				
BDEPTH:		150		150			٧a	lic	dity c	ode	:				
	T	owing	dir:	350*	Wire	out:	550	m	Speed	: 3.	l kn	*10			

CATCH/HOUR:

482.60

Total catch: 241.30

SPECIES	CATCH	/Hour	N OF TOT. C	SAMP
	weight	numbers		
Etrumeus whiteheadi	120.80	1402	25.03	60
Merluccius capensis, female	86.74	38	17.97	58
Chelidonichthys capensis	54.60	196	11.31	
Merluccius capensis, male	44.80	56	9.28	57
Galeorhinus galeus	41.60	2	8.62	
Squalus megalops	29.00	68	6.01	
Mustelus palumbes	26.20	16	5.43	
Lophius vomerinus	19.20	24	3.98	59
Merluccius capensis, female	16.06	2	3.33	62
Cynoglossus capensis	11.08	92	2.30	
Trachurus capensis	6.60	24	1.37	61
Paracallionymus costatus	6.52	1086	1.35	
Sepia australis	5.36	488	1.11	
Holohalaelurus regani	4.36	16	0.90	
Todaropsis eblanae	2.64	68	0.55	
Zeus capensis	2.40	88	0.50	
Conglopodus spinifer	1.88	20	0.39	
Loligo vulgaris	1.36	4	0.28	
Genypterus capensis	0.84	4	0.17	
Emmelichthys nitidus	0.32	32	0.07	
Lepidopus caudatus	0.24	88	0.05	
Total	482.60		100.00	

	PROJECT STATION: 13
DATE: 24/ 1/94	GEAR TYPE: BT No:1 POSITION:Lat S 2847
start stop	duration Long E 1526
TIME :09:42:00 10:12:0	0 30 (min) Purpose code: 3
LOG : 182.60 184.10	1.50 Area code : 1
FDEPTH: 175 177	GearCond.code:
BDEPTH: 175 177	Validity code:
Towing dir: 355°	Wire out: 600 m Speed: 30 kn*10

Sorted: 75 Kg Total catch: 160.00 CATCH/HOUR: 320.00

SPECIES	CATCH	/HOUR	OF TOT. C	SAMP
	weight	numbers		
Merluccius capensis, female	70.60	86	22.06	64
Helicolenus dactylopterus	63.00	3150	19.69	
Sepia australis	50.80	2886	15.88	
Paracallionymus costatus	42.20	3482	13.19	
Merluccius capensis, male	29.80	40	9.31	63
Merluccius paradoxus, juvenile	20.90	500	6.53	65
Chelidonichthys capensis	13.00	20	4.06	
Todaropsis eblanae	7.50	140	2.34	
Genypterus capensis	6.20	50	1.94	
Lophius vomerinus	5.60	10	1.75	66
Holohalaelurus regani	4.60	20	1.44	
Cynoglossus capensis	3.20	100	1.00	
Congiopodus spinifer	1.70	20	0.53	
Merluccius paradoxus, female	0.78	4	0.24	
Lepidopus caudatus	0.70	20	0.22	
Zeus capensis	0.30	10	0.09	
Total	320.88		100.27	

	PROJ	ECT STATION: 14		PROJECT STATION:	18
start stop duration	TYPE: BT No:1 POSITION	ON:Lat S 2838 Long E 1540	DATE:25/ 1/94 GEAR start stop duratio TIME :06:04:00 06:34:00 30 (TYPE: BT No:1 POSITION:Lat S 2 n Long E 1	
TIME :13:13:00 13:43:00 30 (m LOG : 206.90 208.60 1.70 FDEPTH: 152 150	Area code : 1 GearCond.code:		LOG : 316.50 317.90 1.40 FDEPTH: 363 370	min) Purpose code: 3 Area code : 1 GearCond.code:	
BDEPTH: 152 150 Towing dir: 2° Wire ou	Validity code: t: 550 m Speed: 33 km	*10	BDEPTH: 363 370 Towing dir: 350° Wire o	Validity code: ut:1200 m Speed: 29 kn*10	
Sorted: 165 Kg Total catc	ch: 173.36 CATCH/	HOUR: 346.72	Sorted: 134 Kg Total cat	ch: 134.19 CATCH/HOUR: 268.	. 38
SPECIES	weight numbers	OF TOT. C SAMP	SPECIES	CATCH/HOUR % OF TOT. C S	SAMP
Merluccius capensis, female Sepia australis	74.50 178 72.30 4016	21.49 68 20.85 9.43 70	Merluccius paradoxus, male	weight numbers 77.00 250 28.69	95
Merluccius paradoxus, juvenile Etrumeus whiteheadi Lepidopus caudatus	32.70 1922 27.00 310 26.10 506	9.43 70 7.79 73 7.53	Merluccius paradoxus, female Coelorinchus fasciatus Merluccius capensis, female	65.70 142 24.48 29.20 654 10.88 19.30 10 7.19	96 94
Raja straeleni Merluccius capensis, male	17.90 10 17.30 56	5.16 4.99 67	Genypterus capensis Epigonus denticulatus	15.72 8 5.86 14.80 188 5.51	24
Merluccius paradoxus, female Chelidonichthys capensis	14.50 192 11.82 30	4.18 69 3.41	Trachurus capensis Helicolenus dactylopterus	8.80 46 3.28 7.90 44 2.94	97
Maurolicus muelleri Trachurus capensis	11.30 12024 11.12 24 5.80 4	3.26 3.21 71 1.67	Malacocephalus laevis Merluccius capensis, male Brama brama	6.98 80 2.60 6.70 4 2.50 3.98 4 1.48	93
Callorhinchus capensis Helicolenus dactylopterus Genypterus capensis	4.48 166 4.28 44	1.29	Holohalaelurus regani Squalus megalops	3.62 14 1.35 3.32 2 1.24	
Lophius vomerinus Holohalaelurus regani	4.24 12 2.98 20	1.22 74 0.86	Raja caudaspinosa Cynoglossus capensis	2.02 2 0.75 1.32 14 0.49	
Loligo vulgaris Merluccius paradoxus, male	2.34 52 1.76	0.67 0.51	Emmelichthys nitidus Austroglossus microlepis	0.76 2 0.28 0.14 10 0.05	
Cynoglossus capensis Squilla acuelata calmani Galeorhinus galeus	1.60 64 1.20 88 0.62 2	0.46 0.35 0.18	Todaropsis eblanae Total	0.12 2 0.04 267.38 99.61	
Sufflogobius bibarbatus Sardinops ocellata	0.60 214 0.20 2	0.17 0.06	20002	20.700	
Congiopodus spinifer	0.08 2	0.02			
Total	346.72	99.99	DATE:25/ 1/94 GEAR start stop duratio	PROJECT STATION: TYPE: BT No:1 POSITION:Lat S : On Long E	
	PROJ	SECT STATION: 15	TIME :15:07:00 15:37:00 30 (LOG : 369.70 371.50 1.80	min) Purpose code: 3 Area code : 1	1442
start stop duration	TYPE: BT No:1 POSITI	ON:Lat S 2822 Long E 1530	FDEPTH: 169 172 BDEPTH: 169 172	<pre>GearCond.code: Validity code:</pre>	
TIME :15:50:00 16:06:00 16 (n LOG : 226.60 227.50 0.90	Area code : l			ut: 650 m Speed: 36 kn*10 :ch: 410.00 CATCH/HOUR: 820	00
FDEPTH: 137 135 BDEPTH: 137 135 Towing dir: 360° Wire ou	GearCond.code: 8 Validity code: ut:1150 m Speed: 35 km	*10	Sorted: 289 Kg Total cat	ch: 410.00 CATCH/HOUR: 820	.00
Sorted: 124 Kg Total cate			SPECIES	weight numbers	SAMP
SPECIES		OF TOT. C SAMP	Merluccius capensis, female Chelidonichthys capensis Merluccius capensis, male	321.00 142 39.15 157.20 600 19.17 81.20 64 9.90	99 98
RAJIDAE Merluccius capensis, juveniles	weight numbers 150.00 4 114.94 9589	32.14 24.63 80	Centrophorus squamosus Galeorhinus galeus	80.40 216 9.80 55.30 4 6.74	90
Etrumeus whiteheadi Merluccius capensis, female	51.00 566 35.81 94	10.93 83 7.67 77	Emmelichthys nitidus Lophius vomerinus	36.80 3536 4.49 29.60 16 3.61	102 100
Merluccius paradoxus, female Callorinchus capensis	27.38 368 23.06 11 20.78 94	5.87 79 4.94 - 4.45	Zeus capensis Holohalaelurus regani Thyrsites atun	23.12 104 2.82 11.76 64 1.43 10.40 10 1.27	101
Chelidonichthys capensis Helicolenus dactylopterus Merluccius capensis, male	10.13 64 9.19 23	2.17 1.97 76	Congiopodus spinifer Loligo vulgaris	9.68 56 1.18 4.88 56 0.60	101
Lepidopus caudatus Trachurus capensis	6.94 206 5.44 15	1.49 1.17 82	Coelorinchus fasciatus	0.32 8 0.04	
Genypterus capensis Cynoglossus capensis Merluccius paradoxus, male	4.50 23 4.16 90 2.14 30	0.96 81 0.89 0.46 78	Total	821.66 100.20	
Zeus capensis	1.20 38	0.26			
Total	466.67	100.00	DATE:25/ 1/94 GEAF start stop duratio	PROJECT STATION: R TYPE: BT No:1 POSITION:Lat S on Long E	2827
	PROS	JECT STATION: 16	TIME :17:29:00 17:59:00 30 LOG : 382.10 383.80 1.70	(min) Purpose code: 3 Area code : 1	1449
start stop duration		ION:Lat S 2831 Long E 1518	FDEPTH: 180 180 BDEPTH: 180 180	GearCond.code:	
TIME :19:48:00 20:07:00 19 ()		•		Validity code:	
LOG : 244.30 245.20 0.90	min) Purpose code: 3 Area code : 1	·		out: 700 m Speed: 34 kn*10	5.50
LOG : 244.30 245.20 0.90 FDEPTH: 175 175 BDEPTH: 175 175 Towing dir: 260 Wire on	min) Purpose code: 3 Area code : 1 GearCond.code: Validity code:		Sorted: Kg Total can	out: 700 m Speed: 34 kn*10 .ch: 358.25 CATCH/HOUR: 716	
LOG : 244.30 245.20 0.90 FDEPTH: 175 175 BDEPTH: 175 175	min) Purpose code: 3 Area code : 1 GearCond.code: Validity code: ut: 600 m Speed: 31 kr	n*10	Sorted: Kg Total can	out: 700 m Spēed: 34 kn*10 ch: 358.25 CATCH/HOUR: 716 CATCH/HOUR % OF TOT. C weight numbers	SAMP
LOG: 244.30 245.20 0.90 FDEPTH: 175 175 BDEPTH: 175 175 Towing dir: 260 Wire ou	min) Purpose code: 3 Area code : 1 GearCond.code: Validity code: ut: 600 m Speed: 31 km.ch: 192.00 CATCH,	n*10	Sorted: Kg Total can	out: 700 m Speed: 34 kn*10 ch: 358.25 CATCH/HOUR: 716 CATCH/HOUR % OF TOT. C	
LOG : 244.30 245.20 0.90 FDEPTH: 175 175 BDEPTH: 175 175 Towing dir: 260° Wire or Sorted: 49 Kg Total cate SPECIES Sepia australis Merluccius capensis, juveniles	min) Purpose code: 3 Area code: 1 Gearcond.code: validity code: ut: 600 m Speed: 31 kr ch: 192.00 CATCH, CATCH/HOUR 4 weight numbers 230.21 14239 185.68 10816	0*10 /HOUR: 606.32 OF TOT. C SAMP 37.97 30.62 86	Sorted: Kg Total car SPECIES Merluccius capensis, female Lophius vomerinus Chelidonichthys capensis Lepidopus caudatus Merluccius capensis, male	out: 700 m Speed: 34 kn*10 ch: 358.25 CATCH/HOUR: 716 CATCH/HOUR % OF TOT. C weight numbers 235.00 116 32.80 84.10 88 11.74 74.60 168 10.41 70.70 448 9.87 46.20 34 6.45	SAMP 104 106
LOG : 244.30 245.20 0.90 FDEPTH: 175 175 BDEPTH: 175 175 Towing dir: 260° Wire or Sorted: 49 Kg Total cate SPECIES Sepia australis Merluccius capensis, juveniles Merluccius capensis, female Etrumeus whiteheadi	min) Purpose code: 3 Area code: 1 GearCond.code: validity code: ut: 600 m Speed: 31 kr .ch: 192.00 CATCH, CATCH/HOUR weight numbers 230.21 14239 185.68 10816 34.89 25 28.42 265	7+10 7HOUR: 606.32 OF TOT. C SAMP 37.97 30.62 86 5.75 84 4.69 87	Sorted: Kg Total car SPECIES Merluccius capensis, female Lophius vomerinus Chelidonichthys capensis Lepidopus caudatus Merluccius capensis, male Merluccius capensis, juveniles Holohalaelurus regani	out: 700 m Speed: 34 kn*10 ch: 358.25 CATCH/HOUR: 716 CATCH/HOUR % OF TOT. C weight numbers 235.00 116 32.80 84.10 88 11.74 74.60 168 10.41 70.70 448 9.87 46.20 34 6.45 38.36 2862 5.35 26.88 84 3.75	SAMP 104 106
LOG : 244.30 245.20 0.90 FDEPTH: 175 175 BDEPTH: 175 175 Towing dir: 260° Wire or Sorted: 49 Kg Total cat. SPECIES Sepia australis Merluccius capensis, juveniles Merluccius capensis, female Etrumueus whiteheadi Helicolenus dactylopterus Trachurus capensis	min) Purpose code: 3 Area code: 1 GearCond.code: validity code: ut: 600 m Speed: 31 kr. ch: 192.00 CATCH, CATCH/HOUR weight numbers 230.21 14239 185.68 10816 34.89 25 28.42 265 26.53 455 23.21 92	7*10 /HOUR: 606.32 OF TOT. C SAMP 37.97 30.62 86 5.75 84 4.69 87 4.38 3.83 85	Sorted: Kg Total car SPECIES Merluccius capensis, female Lophius vomerinus Chelidonichthys capensis Lepidopus caudatus Merluccius capensis, male Merluccius capensis, juveniles Holohalaelurus regani Paracallionymus costatus Trachurus capensis	nut: 700 m Speed: 34 kn*10 ch: 358.25 CATCH/HOUR: 716 CATCH/HOUR % OF TOT. C weight numbers 235.00 116 32.80 84.10 88 11.74 74.60 168 10.41 70.70 448 9.87 46.20 34 6.45 38.36 2862 5.35 26.88 84 3.75 26.20 1026 3.66 21.00 70 2.93	SAMP 104 106
LOG : 244.30 245.20 0.90 FDEPTH: 175 175 BDEPTH: 175 175 Towing dir: 260° Wire or Sorted: 49 Kg Total cate SPECIES Sepia australis Merluccius capensis, juveniles Merluccius capensis, female Etrumeus whiteheadi Helicolenus dactylopterus Trachurus capensis Holohalaelurus regani Coelorinchus fasciatus Todarodes sagittatus	min) Purpose code: 3 Area code : 1 GearCond. code: Validity code: ut: 600 m Speed: 31 kr. ch: 192.00 CATCH, Weight numbers 230.21 14239 185.68 10816 34.69 25 28.42 265 26.53 455 23.21 92 19.89 76 16.29 227 8.34 19	7*10 /HOUR: 606.32 OF TOT. C SAMP 37.97 30.62 86 5.75 84 4.69 87 4.38 3.83 85 3.28 2.69 1.38	Sorted: Kg Total car SPECIES Merluccius capensis, female Lophius vomerinus Chelidonichthys capensis Lepidopus caudatus Merluccius capensis, male Merluccius capensis, juveniles Holohalaelurus regani Paracallionymus costatus Trachurus capensis Squalus megalops Etrumeus whiteheadi Zeus capensis	nut: 700 m Speed: 34 kn*10 ch: 358.25 CATCH/HOUR: 716 CATCH/HOUR	SAMP 104 106 103 105
LOG : 244.30 245.20 0.90 FDEPTH: 175 175 BDEPTH: 175 175 Towing dir: 260° Wire or Sorted: 49 Kg Total cate SPECIES Sepia australis Merluccius capensis, juveniles Merluccius capensis, female Etrumeus whiteheadi Helicolenus dactylopterus Trachurus capensis Holohalaelurus regani Coelorinchus fasciatus Todarodes sagittatus Squalus megalops Cynoglossus capensis	min) Purpose code: 3 Area code : 1 GearCond. code: Validity code: ut: 600 m Speed: 31 kr. ch: 192.00 CATCH, Weight numbers 230.21 14239 185.68 10816 34.69 25 28.42 265 26.53 455 23.21 92 19.89 76 16.29 227 8.34 19 7.20 19 5.31 57	7*10 /HOUR: 606.32 OF TOT. C SAMP 37.97 30.62 86 5.75 84 4.69 87 4.38 3.83 85 3.28 2.69 1.38 1.19 0.88	Sorted: Kg Total car SPECIES Merluccius capensis, female Lophius vomerinus Chelidonichthys capensis Lepidopus caudatus Merluccius capensis, male Merluccius capensis, juveniles Holohalaelurus regani Paracallionymus costatus Trachurus capensis Squalus meyalops Etrumeus whiteheadi Zeus capensis Sepia australis Cynoglossus capensis	nut: 700 m Speed: 34 kn*10 ch: 358.25 CATCH/HOUR: 716 CATCH/HOUR N OF TOT. C weight numbers 235.00 116 32.80 84.10 88 11.74 74.60 168 10.41 70.70 448 9.87 46.20 34 6.45 38.36 2862 5.35 26.88 84 3.75 26.20 1026 3.66 21.00 70 2.93 18.90 42 2.64 18.40 204 2.57 17.92 140 2.50 16.88 1258 2.36 6.92 92 0.97	104 106 103 105
LOG : 244.30 245.20 0.90 FDEPTH: 175 175 BDEPTH: 175 175 Towing dir: 260° Wire or Sorted: 49 Kg Total cat. SPECIES Sepia australis Merluccius capensis, juveniles Merluccius capensis, female Etrumeus whiteheadi Helicolenus dactylopterus Trachurus capensis Holohalaelurus regani Coelorinchus fasciatus Todarodes sagittatus Squalus megalops Cynoglossus capensis Merluccius capensis, male Genypterus capensis	min) Purpose code: 3 Area code : 1 GearCond. code: Validity code: ut: 600 m Speed: 31 kr. ch: 192.00 CATCH, CATCH/HOUR weight numbers 230.21 14239 165.68 10816 34.89 25 28.42 265 23.21 92 19.89 76 16.29 227 8.34 19 7.20 19 5.31 57 3.95 3 3.73 9	7+10 7HOUR: 606.32 OF TOT. C SAMP 37.97 30.62 86 5.75 84 4.38 3.83 85 3.28 2.69 1.38 1.19 0.88 0.65 0.65	Sorted: Kg Total car SPECIES Merluccius capensis, female Lophius vomerinus Chelidonichthys capensis Lepidopus caudatus Merluccius capensis, male Merluccius capensis, juveniles Holohalaelurus regani Paracallionymus costatus Trachurus capensis Squalus megalops Etrumeus whiteheadi Zeus capensis Sepia australis Cynoglossus capensis Torpedo nobiliana Todarodes sagittatus	nut: 700 m Speed: 34 kn*10 ch: 358.25 CATCH/HOUR: 716 CATCH/HOUR N OF TOT. C weight numbers 235.00 88 11.74 74.60 168 10.41 70.70 448 9.87 46.20 34 6.45 38.36 2862 5.35 26.88 84 3.75 26.20 1026 3.66 21.00 70 2.93 18.90 42 2.64 18.40 204 2.57 17.92 140 2.50 16.88 1258 2.36 6.92 92 0.97 5.80 8 0.81 4.28 56 0.60	104 106 103 105
LOG : 244.30 245.20 0.90 FDEPTH: 175 175 BDEPTH: 175 175 Towing dir: 260° Wire or Sorted: 49 Kg Total cat. SPECIES Sepia australis Merluccius capensis, juveniles Merluccius capensis, female Etrumeus whiteheadi Helicolenus dactylopterus Trachurus capensis Holohalaelurus regani Coelorinchus fasciatus Todarodes sagittatus Squalus megalops Cynoglossus capensis Merluccius capensis Merluccius capensis Merluccius capensis Todaropsis eblanae Zeus capensis Conglopodus spinifer	min) Purpose code: 3 Area code : 1 GearCond.code: Validity code: ut: 600 m Speed: 31 kr ch: 192.00 CATCH, CATCH/HOUR weight numbers 230.21 14239 185.68 10816 34.89 25 28.42 265 26.53 455 23.21 92 19.89 76 16.29 227 8.34 19 7.20 19.89 76 16.29 531 57 3.35 3 3.73 9 3.60 57 3.22 38 1.71 19	7*10 /HOUR: 606.32 OF TOT. C SAMP 37.97 30.62 86 5.75 84 4.69 87 4.38 3.83 85 3.28 2.69 1.38 1.19 0.88 0.65 0.62 0.59 0.53 0.28	Sorted: Kg Total car SPECIES Merluccius capensis, female Lophius vomerinus Chelidonichthys capensis Lepidopus caudatus Merluccius capensis, male Merluccius capensis, juveniles Holohalaelurus regani Paracallionymus costatus Trachurus capensis Squalus megalops Etrumeus whiteheadi Zeus capensis Sepia australis Cynoglossus capensis Torpedo nobiliana	nut: 700 m Speed: 34 kn*10 ch: 358.25 CATCH/HOUR: 716 CATCH/HOUR N OF TOT. C weight numbers 235.00 88 11.74 74.60 168 10.41 70.70 448 9.87 46.20 34 6.45 38.36 2862 5.35 26.88 84 3.75 26.20 1026 3.66 21.00 70 2.93 18.90 42 2.64 18.40 204 2.57 17.92 140 2.50 16.88 1258 2.36 6.92 92 0.97 5.80 8 0.81 4.28 56 0.60	104 106 103 105
LOG : 244.30 245.20 0.90 FDEPTH: 175 175 BDEPTH: 175 175 Towing dir: 260° Wire or Sorted: 49 Kg Total cat. SPECIES Sepia australis Merluccius capensis, juveniles Merluccius capensis, female Etrumeus whiteheadi Helicolenus dactylopterus Trachurus capensis Holohalaelurus regani Coelorinchus fasciatus Todarodes sagittatus Squalus megalops Cynoglossus capensis Merluccius capensis Merluccius capensis Merluccius capensis Todaropsis eblanae Zeus capensis Congiopodus spinifer Sepia bertheloti Synagrops microlepis	min) Purpose code: 3 Area code : 1 GearCond.code: Validity code: ut: 600 m Speed: 31 kr ch: 192.00 CATCH, CATCH/HOUR weight numbers 230.21 14239 185.68 10816 34.89 25 28.42 265 26.53 455 23.21 92 19.89 76 16.29 227 8.34 19 7.20 19.89 76 16.29 227 8.34 19 7.20 531 57 3.95 33 3.73 9 3.60 57 3.22 38 1.71 19 1.14 19 0.76 19	7*10 /HOUR: 606.32 OF TOT. C SAMP 37.97 30.62 86 5.75 84 4.69 87 4.38 3.83 85 3.28 2.69 1.38 1.19 0.88 0.65 0.62 0.59 0.53 0.28 0.19 0.13	Sorted: Kg Total car SPECIES Merluccius capensis, female Lophius vomerinus Chelidonichthys capensis Lepidopus caudatus Merluccius capensis, male Merluccius capensis, juveniles Holohalaelurus regani Paracallionymus costatus Trachurus capensis Squalus megalops Etrumeus whiteheadi Zeus capensis Sepia australis Cynoglossus capensis Torpedo nobiliana Todarodes sagittatus Raja caudaspinosa	nut: 700 m Speed: 34 kn*10 ch: 358.25 CATCH/HOUR: 716 CATCH/HOUR	104 106 103 105
LOG : 244.30 245.20 0.90 FDEPTH: 175 175 BDEPTH: 175 175 Towing dir: 260° Wire or Sorted: 49 Kg Total cat. SPECIES Sepia australis Merluccius capensis, juveniles Merluccius capensis, female Etrumeus whiteheadi Helicolenus dactylopterus Trachurus capensis Holohalaelurus regani Coelorinchus fasciatus Todarodes sagitatus Squalus megalops Cynoglossus capensis Merluccius capensis Merluccius capensis, male Genyterus capensis Todaropsis eblanae Zeus capensis Congiopodus spinifer Sepia bertheloti Synagrops microlepis Merluccius paradoxus, female	min) Purpose code: 3 Area code : 1 GearCond.code: Validity code: ut: 600 m Speed: 31 kr .ch: 192.00 CATCH, CATCH/HOUR weight numbers 230.21 14239 185.68 10816 34.89 25 28.42 265 26.53 455 23.21 92 19.89 76 16.29 227 8.34 19 7.20 19 5.31 57 3.95 31 3.73 9 3.73 9 3.60 57 3.22 38 1.71 19 1.14 19 0.60 3	7*10 /HOUR: 606.32 OF TOT. C SAMP 37.97 30.62 86 5.75 84 4.69 87 4.38 3.28 2.69 1.38 1.19 0.88 0.65 0.62 0.59 0.53 0.28 0.19 0.13 0.10	Sorted: Kg Total car SPECIES Merluccius capensis, female Lophius vomerinus Chelidonichthys capensis Lepidopus caudatus Merluccius capensis, male Merluccius capensis, juveniles Holohalaelurus regani Paracallionymus costatus Trachurus capensis Squalus megalops Etrumeus whiteheadi Zeus capensis Sepia australis Cynoglossus capensis Torpedo nobiliana Todarodes sagittatus Raja caudaspinosa	nut: 700 m Speed: 34 kn*10 ch: 358.25 CATCH/HOUR: 716 CATCH/HOUR 1 OF TOT. C weight numbers 235.00 116 32.80 84.10 88 11.74 74.66 168 10.41 70.70 448 9.87 46.20 34 6.45 38.36 2862 5.35 26.88 84 3.75 26.20 1026 3.66 21.00 70 2.93 18.90 42 2.64 18.40 204 2.57 17.92 140 2.50 16.88 1258 2.36 6.92 92 0.97 5.80 8 0.81 4.28 56 0.60 3.36 8 0.47 715.50 99.88	104 106 103 105 108 107
LOG : 244.30 245.20 0.90 FDEPTH: 175 175 BDEPTH: 175 175 Towing dir: 260° Wire or Sorted: 49 Kg Total cat. SPECIES Sepia australis Merluccius capensis, juveniles Merluccius capensis, female Etrumeus whiteheadi Helicolenus dactylopterus Trachurus capensis Holohalaelurus regani Coelorinchus fasciatus Todarodes sagittatus Squalus megalops Cynoglossus capensis Merluccius capensis Merluccius capensis Merluccius capensis Todaropsis eblanae Zeus capensis Congiopodus spinifer Sepia bertheloti Synagrops microlepis	min) Purpose code: 3 Area code : 1 GearCond.code: Validity code: ut: 600 m Speed: 31 kr ch: 192.00 CATCH, CATCH/HOUR weight numbers 230.21 14239 185.68 10816 34.89 25 28.42 265 26.53 455 23.21 92 19.89 76 16.29 227 8.34 19 7.20 19.89 76 16.29 227 8.34 19 7.20 531 57 3.95 33 3.73 9 3.60 57 3.22 38 1.71 19 1.14 19 0.76 19	7*10 /HOUR: 606.32 OF TOT. C SAMP 37.97 30.62 86 5.75 84 4.69 87 4.38 3.83 85 3.28 2.69 1.38 1.19 0.88 0.65 0.62 0.59 0.53 0.28 0.19 0.13	Sorted: Kg Total cat SPECIES Merluccius capensis, female Lophius vomerinus Chelidonichthys capensis Lepidopus caudatus Merluccius capensis, male Merluccius capensis, juveniles Holohalaelurus regani Paracallionymus costatus Trachurus capensis Squalus megalops Etrumeus whiteheadi Zeus capensis Sepia australis Cynoglossus capensis Torpedo nobiliana Todarodes sagittatus Raja caudaspinosa Total DATE:25/ 1/94 Start stop deratic	nut: 700 m Speed: 34 kn*10 ch: 358.25 CATCH/HOUR: 716 CATCH/HOUR	104 106 103 105 108 107
LOG : 244.30 245.20 0.90 FDEPTH: 175 175 BDEPTH: 175 175 Towing dir: 260° Wire or Sorted: 49 Kg Total cat. SPECIES Sepia australis Merluccius capensis, juveniles Merluccius capensis, female Etrumeus whiteheadi Helicolenus dactylopterus Trachurus capensis Holohalaelurus regani Coelorinchus fasciatus Todarodes sagittatus Squalus megalops Cynoglossus capensis Merluccius capensis Merluccius capensis Todaropsis eblanae Zeus capensis Congiopodus spinifer Sepia bertheloti Synagrops microlepis Merluccius paradoxus, female	min) Purpose code: 3 Area code : 1 GearCond. code: Validity code: ut: 600 m Speed: 31 kr .ch: 192.00 CATCH, CATCH/HOUR weight numbers 230.21 14239 185.68 10816 34.89 225 28.42 265 28.42 265 23.21 92 19.89 76 16.29 227 8.34 19 7.20 19 7.20 19 7.20 19 7.3	7*10 /HOUR: 606.32 OF TOT. C SAMP 37.97 30.62 86 4.69 87 4.38 3.88 3.88 3.28 2.69 1.38 1.19 0.88 0.65 0.62 0.59 0.53 0.28 0.19 0.10 99.75	Sorted: Kg Total cat SPECIES Merluccius capensis, female Lophius vomerinus Chelidonichthys capensis Lepidopus caudatus Merluccius capensis, male Merluccius capensis, juveniles Holohalaelurus regani Paracallionymus costatus Trachurus capensis Squalus megalops Etrumeus whiteheadi Zeus capensis Sepia australis Cynoglossus capensis Torpedo nobiliana Todarodes sagittatus Raja caudaspinosa Total DATE: 25/ 1/94 start stop duratic TIME :19:32:00 20:02:00 30 LOG : 395.50 397.00 1.50	nut: 700 m Speed: 34 kn*10 ch: 358.25 CATCH/HOUR: 716 CATCH/HOUR	104 106 103 105 108 107
LOG : 244.30 245.20 0.90 FDEPTH: 175 175 BDEPTH: 175 175 Towing dir: 260° Wire or Sorted: 49 Kg Total cat. SPECIES Sepia australis Merluccius capensis, juveniles Merluccius capensis, female Etrumeus whiteheadi Helicolenus dactylopterus Trachurus capensis Holohalaelurus regani Coelorinchus fasciatus Todarodes sagittatus Squalus megalops Cynoglossus capensis Merluccius capensis Merluccius capensis Todaropsis eblanae Zeus capensis Congiopodus spinifer Sepia bertheloti Synagrops microlepis Merluccius paradoxus, female Total DATE:25/ 1/94 Start stop duratio	min) Purpose code: 3 Area code : 1 GearCond. code: Validity code: ut: 600 m Speed: 31 kr .ch: 192.00 CATCH, CATCH/HOUR weight numbers 230.21 14239 185.68 10816 34.89 2265 28.42 265 28.42 265 28.21 92 19.89 76 16.29 227 8.34 197 7.20 197 7.30 197 7.30 197 7.30 197 3.22 38 1.71 197 3.14 197 0.76 197 0.76 197 0.76 197 0.76 197 0.76 197 0.77 RITPE: BT No:1 POSIT	7*10 /HOUR: 606.32 OF TOT. C SAMP 37.97 30.62 86 5.75 84 4.69 87 4.38 3.83 85 3.28 2.69 1.38 1.19 0.88 0.65 0.62 0.59 0.53 0.28 0.19 0.13 0.10	Sorted: Kg Total cat SPECIES Merluccius capensis, female Lophius vomerinus Chelidonichthys capensis Lepidopus caudatus Merluccius capensis, male Merluccius capensis, juveniles Holohalaelurus regani Paracallionymus costatus Trachurus capensis Squalus megalops Etrumeus whiteheadi Zeus capensis Sepia australis Cynoglossus capensis Torpedo nobiliana Todarodes sagittatus Raja caudaspinosa Total DATE: 25/ 1/94	nut: 700 m Speed: 34 kn*10 ch: 358.25 CATCH/HOUR: 716 CATCH/HOUR	104 106 103 105 108 107
LOG : 244.30 245.20 0.90 FDEPTH: 175 175 BDEPTH: 175 175 Towing dir: 260° Wire or Sorted: 49 Kg Total cat. SPECIES Sepia australis Merluccius capensis, juveniles Merluccius capensis, female Etrumeus whiteheadi Helicolenus dactylopterus Trachurus capensis Holohaledurus regani Coelorinchus fasciatus Todarodes sagittatus Squalus megalops Cynoglossus capensis, male Genybterus capensis merluccius capensis, male Genybterus capensis Todaropsis eblanae Zeus capensis Congipodus spinifer Sepia bertheloti Synagrops microlepis Merluccius paradoxus, female Total DATE:25/ 1/94 start stop duratio TIME :02:29:00 02:59:00 30 (LOG : 292.20 293.90 1.70 FDEPTH: 215	min) Purpose code: 3 Area code: 1 GearCond. code: 1 GearCond. code: 1 GearCond. code: 2 Validity code: 2 Validity code: 3 I kr. ch: 192.00 CATCH, CATCH/HOUR weight numbers 230.21 14239 185.68 10816 34.89 25 28.32 195.68 10816 29 227 8.34 19 7.20 19 5.31 57 3.95 3 3.73 9 3.60 57 3.22 38 1.71 19 1.74 19 0.76 19 0.60 3 604.68	7*10 7*HOUR: 606.32 OF TOT. C SAMP 37.97 30.62 86 5.75 84 4.69 87 4.38 3.83 85 3.28 2.69 1.38 1.19 0.88 0.65 0.62 0.59 0.53 0.28 0.19 0.13 0.10 99.75 JECT STATION: 17 ION:Lat S 2855 Long E 1438	Sorted: Kg Total cat SPECIES Merluccius capensis, female Lophius vomerinus Chelidonichthys capensis Lepidopus caudatus Merluccius capensis, male Merluccius capensis, juveniles Holohalaelurus regani Paracallionymus costatus Trachurus capensis Squalus megalops Etrumeus whiteheadi Zeus capensis Sepia australis Cynoglossus capensis Torpedo nobiliana Todarodes sagittatus Raja caudaspinosa Total DATE: 25/ 1/94	CATCH/HOUR Note Total	104 106 103 105 108 107
LOG : 244.30 245.20 0.90 FDEPTH: 175 175 BDEPTH: 175 175 Towing dir: 260° Wire or	min) Purpose code: 3 Area code : 1 GearCond. code: Validity code: ut: 600 m Speed: 31 kr .ch: 192.00 CATCH, CATCH/HOUR veight numbers 230.21 14239 185.68 10816 34.89 2265 28.42 265.23.21 92 19.89 76 16.29 227 8.34 455 23.21 92 19.89 76 16.29 227 8.34 257 3.32 19.89 76 16.29 27 8.34 19 7.20 19 7.20 19 7.30 19	7*10 /HOUR: 606.32 OF TOT. C SAMP 37.97 30.62 86 5.75 84 4.69 87 4.38 3.88 3.28 2.69 1.38 1.19 0.88 0.65 0.62 0.59 0.53 0.28 0.19 0.13 0.10 99.75 JECT STATION: 17 ION:Lat S 2855 Long E 1438	Sorted: Kg Total car SPECIES Merluccius capensis, female Lophius vomerinus Chelidonichthys capensis Lepidopus caudatus Merluccius capensis, mule Merluccius capensis, juveniles Holohalaelurus regani Paracallionymus costatus Trachurus capensis Squalus megalops Etrumeus whiteheadi Zeus capensis Sepia australis Cynoglossus capensis Torpedo nobiliana Todarodes sagittatus Raja caudaspinosa Total DATE: 25/ 1/94 GEAN start stop duratic TIME :19:32:00 20:02:00 30 LOG : 395.50 397.00 1.50 FPDEPTH: 172 175 BDEPTH: 172 175 Towing dir: 310* wire capensis Sorted: Kg Total capensis Sorted: Kg Total capensis Special Sp	CATCH/HOUR NoF TOT. Common NoF TOT. N	104 106 103 105 108 107 21 2819 1455
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LOG : 244.30 245.20 0.90 FDEPTH: 175 175 BDEPTH: 175 175 Towing dir: 260° Wire or	min) Purpose code: 3 Area code: 1 GearCond.code: Validity code: ut: 600 m Speed: 31 kr. ch: 192.00 CATCH, CATCH/HOUR 192.00.21 14239 185.68 10816 144.89 25 28.42 265 23.21 92 19.89 76 16.29 227 8.34 19 7.20 19 5.31 57 3.95 3.73 9 3.60 57 3.22 38 1.71 19 1.14 19 0.76 19 0.60 3 604.68	7*10 7*10	Sorted: Kg Total cat SPECIES Merluccius capensis, female Lophius vomerinus Chelidonichthys capensis Lepidopus caudatus Merluccius capensis, male Merluccius capensis, juveniles Holohalaelurus regani Paracallionymus costatus Trachurus capensis Squalus megalops Etrumeus whiteheadi Zeus capensis Sepia australis Cynoglossus capensis Torpedo nobiliana Todarodes sagittatus Raja caudaspinosa Total DATE:25/ 1/94 GEAI start stop durati TIME:19:32:00.20:00.30 LGC:395.50:397.00:1.50 FDEPTH: 172:175 DDEPTH: 172:175 Towing dir: 310* Wire of Sorted: Kg Total cat SPECIES Merluccius capensis, juveniles Thyrsites atun Sepia australis	CATCH/HOUR No. Free State St	SAMP 104 106 103 105 108 107 221 2819 1455 SAMP 114
LOG : 244.30 245.20 0.90 FDEPTH: 175 175 BDEPTH: 175 175 Towing dir: 260° Wire or Sorted: 49 Kg Total cat. SPECIES Sepia australis Merluccius capensis, juveniles Merluccius capensis, female Etrumeus whiteheadi Helicolenus dactylopterus Trachurus capensis Holohalaelurus regani Coelorinchus fasciatus Todarodes sagittatus Squalus megalops Cynoglossus capensis Merluccius capensis Merluccius capensis Todaropsis eblanae Zeus capensis Congipodus spinifer Sepia bertheloti Synagrops microlepis Merluccius paradoxus, female Total DATE: 25/ 1/94 GEAR start stop duratio TIME :02:29:00 02:59:00 30 (LOG : 292.20 293.90 1.70 FDEPTH: 215 217 BDEPTH: 215 217 Towing dir: 5° Wire of Sorted: 128 Kg Total cat SPECIES Trachurus capensis Genypterus capensis	min) Purpose code: 3 Area code : 1 GearCond. code: validity code: ut: 600 m Speed: 31 kr veight numbers 230.21 14239 185.68 10816 34.89 25 28.53 23.21 92 19.89 76 16.29 227 8.34 19 7.20 19 5.31 57 3.95 3 3.73 9 3.60 57 3.22 38 1.71 19 1.14 19 0.76 19 0.76 19 0.76 19 0.76 19 0.76 19 0.76 19 0.76 19 0.76 19 0.76 19 0.76 19 0.76 19 0.76 19 0.76 19 0.76 19 0.76 19 0.76 19 0.76 19 0.77 19 1.7	7*10 7*HOUR: 606.32 OF TOT. C SAMP 37.97 30.62 86 5.75 84 4.69 87 4.38 3.83 85 3.28 2.69 1.38 1.19 0.88 0.65 0.62 0.59 0.53 0.28 0.19 0.13 0.10 99.75 JECT STATION: 17 ION:Lat S 2855 Long E 1438 0*HOUR: 256.60 OF TOT. C SAMP 39.98 39.98 99 20.85	Sorted: Kg Total cat SPECIES Merluccius capensis, female Lophius vomerinus Chelidonichthys capensis Lepidopus caudatus Merluccius capensis, male Merluccius capensis, juveniles Holohalaelurus regani Paracallionymus costatus Trachurus capensis Squalus megalops Etrumeus whiteheadi Zeus capensis Sepia australis Cynoglossus capensis Torpedo nobiliana Todarodes sagittatus Raja caudaspinosa Total DATE: 25/ 1/94	nut: 700 m Speed: 34 kn*10 ch: 358.25 CATCH/HOUR: 716 CATCH/HOUR 1 OF TOT. C weight numbers 235.00 116 32.80 84.10 88 11.74 74.60 168 10.41 770.70 448 9.87 46.20 34 6.45 38.36 2862 5.35 26.88 84 3.75 26.20 1026 3.66 21.00 70 2.93 18.90 42 2.64 18.40 204 2.57 17.92 140 2.50 16.88 1258 2.36 6.92 92 0.97 5.80 8 0.81 4.28 56 0.60 3.36 8 0.47 715.50 PROJECT STATION: R TYPE: BT No:1 POSITION:Lat S On Area code: 1 GearCond.code: Validity code: 1 GearCond.code: Validity code: 2016 10.80 Speed: 30 kn*10 tch: 352.76 CATCH/HOUR: 705 CATCH/HOUR 1 OF TOT. C weight numbers 214.00 19152 30.33 108.80 48 15.42 83.52 5644 11.84 82.50 54 11.84 82.50 54 11.84 82.50 54 11.84	104 106 103 105 108 107 21 2819 1455
LOG : 244.30 245.20 0.90 FDEPTH: 175 175 BDEPTH: 175 175 Towing dir: 260° Wire on Sorted: 49 Kg Total cat. SPECIES Sepia australis Merluccius capensis, juveniles Merluccius capensis, jemeniles Merluccius capensis, female Etrumeus whiteheadi Helicolenus dactylopterus Trachurus capensis Holohalaelurus regani Coelorinchus fasciatus Todarodes sagittatus Squalus megalops Cynoglossus capensis Merluccius capensis Merluccius capensis Todaropsis eblanae Zeus capensis Congiopodus spinifer Sepia bertheloti Synagrops microlepis Merluccius paradoxus, female Total DATE: 25/ 1/94 GEAR start stop duratio Time : 02: 291.90 02: 59: 00 30 (IOG : 292.20 293.90 1.70 FDEPTH: 215 217 Towing dir: 5° Wire of Sorted: 128 Kg Total cat SPECIES Trachurus capensis Cenypterus capensis Cynoglossus capensis Cenypterus capensis Cenypterus capensis	min) Purpose code: 3 Area code : 1 GearCond. code: validity code: ut: 600 m Speed: 31 km. ch: 192.00 CATCH, CATCH/HOUR 192.00 CATCH/HOUR 19	7*10 7*HOUR: 606.32 OF TOT. C SAMP 37.97 30.62 86 5.75 84 4.69 87 4.38 3.28 2.69 1.38 1.19 0.88 0.65 0.62 0.59 0.53 0.28 0.19 0.13 0.10 99.75 JECT STATION: 17 ION:Lat S 2855 Long E 1438 0*HOUR: 256.60 OF TOT. C SAMP 39.98 90 20.85 89 11.57 8.26	Sorted: Kg Total cat SPECIES Merluccius capensis, female Lophius vomerinus Chelidonichthys capensis Lepidopus caudatus Merluccius capensis, male Merluccius capensis, juveniles Holohalaelurus regani Paracallionymus costatus Trachurus capensis Squalus megalops Etrumeus whiteheadi Zeus capensis Sepia australis Cynoglossus capensis Torpedo nobiliana Todarodes sagittatus Raja caudaspinosa Total DATE: 25/ 1/94	nut: 700 m Speed: 34 kn*10 ch: 358.25 CATCH/HOUR: 716 CATCH/HOUR 1 OF TOT. C weight numbers 235.00 116 32.80 84.10 88 11.74 74.60 168 10.41 770.70 448 9.87 46.20 34 6.45 38.36 2862 5.35 26.88 84 3.75 26.20 1026 3.66 21.00 70 2.93 18.90 42 2.64 18.40 204 2.57 17.92 140 2.50 16.88 1258 2.36 6.92 92 0.97 5.80 8 0.81 4.28 56 0.60 3.36 8 0.47 715.50 PROJECT STATION: R TYPE: BT No:1 POSITION:Lat S On Area code: 1 GearCond.code: Validity code: 1 GearCond.code: Validity code: 2 10.00 m Speed: 30 kn*10 tch: 352.76 CATCH/HOUR: 705 CATCH/HOUR 1 OF TOT. C weight numbers 214.00 19152 30.33 108.88 48 15.42 83.52 5644 11.84 82.50 54 11.69 55.20 16 7.82 43.20 16 6.12 21.60 48 3.06	104 106 103 105 108 107 221 2819 1455 SAMP 114 110
LOG : 244.30 245.20 0.90 FDEPTH: 175 175 BDEPTH: 175 175 Towing dir: 260° Wire or Sorted: 49 Kg Total cat. SPECIES Sepia australis Merluccius capensis, juveniles Merluccius capensis, female Etrumeus whiteheadi Helicolenus dactylopterus Trachurus capensis Holohalaelurus regani Coelorinchus fasciatus Todarodes sagittatus Squalus megalops Cynoglossus capensis Merluccius capensis, male Genypterus capensis Todaropsis eblanae Zeus capensis Congiopodus spinifer Sepia bertheloti Synagrops microlepis Merluccius paradoxus, female Total DATE: 25/ 1/94 GEAR Start stop duratio TIME : 02: 29:00 02: 59:00 30 (1.0G : 292.20 29:1,70 FDEPTH: 215 217 BDEPTH: 215 217 Towing dir: 5° Wire of Sorted: 128 Kg Total cat SPECIES Trachurus capensis Genypterus capensis Genypterus capensis Genypterus capensis Genypterus capensis	min) Purpose code: 3 Area code : 1 GearCond. code: Validity code: ut: 600 m Speed: 31 kr. ch: 192.00 CATCH, CATCH/HOUR weight numbers 230.21 14239 185.68 18816 34.89 227 28.42 265 28.53 452 28.53 452 219.89 76 16.29 227 8.34 19 7.20 19 7.20 19 7.20 19 7.30 15 3.373 9 3.60 57 3.95 3 3.73 9 3.60 57 3.95 3 3.73 9 3.60 57 3.95 3 3.73 9 3.60 57 3.95 3 3.73 9 3.60 57 3.95 3 3.73 9 3.60 57 3.95 3 3.73 9 3.60 57 3.95 3 3.73 9 3.60 57 3.95 3 3.73 9 3.60 57 3.95 3 3.73 9 3.60 57 3.95 3 3.73 9 3.60 57 3.95 3 3.73 9 3.60 57 3.91 10 19 5.11 57 3.95 3 3.73 9 3.60 57 3.91 10 19 5.11 57 3.95 3 3.73 9 3.60 57 3.91 3.95 3 3.73 9 3.60 57 3.91 3.95 3 3.73 9 3.60 57 3.91 3.95 3 3.73 9 3.60 57 3.95 3 3.73 9 3.60 57 3.95 3 3.73 9 3.60 57 3.95 3 3.73 9 3.60 57 3.95 3 3.73 9 3.60 57 3.95 3 3.75 3 3.	7*10 7*10	Sorted: Kg Total car SPECIES Merluccius capensis, female Lophius vomerinus Chelidenichthys capensis Lepidopus caudatus Merluccius capensis, male Merluccius capensis, juveniles Holohalaelurus regani Paracallionymus costatus Trachurus capensis Squalus megalops Etrumeus whiteheadi Zeus capensis Sepia australis Cynoglossus capensis Torpedo nobiliana Todarodes sagittatus Raja caudaspinosa Total DATE: 25/ 1/94	nut: 700 m Speed: 34 kn*10 ch: 358.25 CATCH/HOUR: 716 CATCH/HOUR	SAMP 104 106 103 105 108 107 221 2819 1455 SAMP 114
LOG : 244.30 245.20 0.90 FDEPTH: 175 175 BDEPTH: 175 175 Towing dir: 260° Wire or	min) Purpose code: 3 Area code : 1 GearCond. code: Validity code: ut: 600 m Speed: 31 kr. ch: 192.00 CATCH, CATCH/HOUR weight numbers 230.21 14239 185.68 1981.6 34.89 225 28.42 265 23.21 92. 19.89 72. 19.80 72. 19.80 72. 19.80 72. 19.80 72. 19.80 72. 10.8	7*10 7*10	Sorted: Kg Total car SPECIES Merluccius capensis, female Lophius vomerinus Chelidonichthys capensis Lepidopus caudatus Merluccius capensis, male Merluccius capensis, juveniles Holohalaelurus regani Paracallionymus costatus Trachurus capensis Squalus megalops Etrumeus whiteheadi Zeus capensis Sepia australis Cynoglossus capensis Torpedo nobiliana Todarodes sagittatus Raja caudaspinosa Total DATE:25/ 1/94 GEAI Start stop duratic TIME:19:32:00 20:02:00 30 LOG:395.50 397.00 1.50 FDEPTH: 172 175 BDEPTH: 172 175 BDEPTH: 172 175 Towing dir: 310* Wire of Sorted: Kg Total car SPECIES Merluccius capensis, juveniles Thyrsites atun Sepia australis Merluccius capensis, female Raja pullopunctata Raja straeleni Chelidonichthys capensis Holohalaelurus regani Chelidonichthys capensis	CATCH/HOUR Note Total	104 106 103 105 108 107 221 2819 1455 SAMP 114 110 109
LOG : 244.30 245.20 0.90 FDEPTH: 175 175 BDEPTH: 175 175 Towing dir: 260° Wire on Sorted: 49 Kg Total cat. SPECIES Sepia australis Merluccius capensis, juveniles Merluccius capensis, female Etrumeus whiteheadi Helicolenus dactylopterus Trachurus capensis Holohalaelurus regani Coelorinchus fasciatus Todarodes sagittatus Squalus megalops Cynoglossus capensis Merluccius capensis, male Genypterus capensis Todaropsis eblanae Zeus capensis Congiopodus spinifer Sepia bertheloti Synagtops microlepis Merluccius paradoxus, female Total DATE:25/ 1/94 GEAR Start stop duratio TIME :02:29:00 02:59:00 30 (10G : 292.20 293.90 1.70 FDEPTH: 215 217 BDEPTH: 215 217 BDEPTH: 215 217 Towing dir: 5° Wire of Sorted: 128 Kg Total cat SPECIES Trachurus capensis Genypterus capensis Deepwater fish mixture Merluccius capensis Lepidopus caudatus Holohalaelurus regani Emmelichthys nitidus Raja leopardus	min) Purpose code: 3 Area code : 1 GearCond. code: Validity code: ut: 600 m Speed: 31 kr .ch: 192.00 CATCH, CATCH/HOUR weight numbers 230.21 14239 185.68 1981.6 34.89 225 28.42 265 23.21 92.65 23.21 92.65 23.21 92.7 8.34 19 7.20 19 7.20 19 7.30	7*10 7*10	Sorted: Kg Total car SPECIES Merluccius capensis, female Lophius vomerinus Chelidonichthys capensis Lepidopus caudatus Merluccius capensis, male Merluccius capensis, juveniles Holohalaelurus regani Paracallionymus costatus Trachurus capensis Squalus megalops Etrumeus whiteheadi Zeus capensis Sepia australis Cynoglossus capensis Torpedo nobiliana Todarodes sagittatus Raja caudaspinosa Total DATE:25/ 1/94 GEAI start stop durati Time:19:32:00 20:02:00 30 LOG:395.50 397.00 1.50 FDEPTH: 172 175 BDEPTH: 172 175 BDEPTH: 172 175 Towing dir: 310* Wire of the start stop durati SPECIES Merluccius capensis, juveniles Thyrsites atun Sepia australis Merluccius capensis, jeveniles Thyrsites atun Sepia australis Merluccius capensis, female Raja pullopunctata Raja straeleni Chelidonichthys capensis Lophius vomerinus Holohalaelurus regani Chelidonichthys capensis Zeus capensis Paracallionymus costatus	nut: 700 m Speed: 34 kn*10 ch: 358.25 CATCH/HOUR: 716 CATCH/HOUR	104 106 103 105 108 107 221 2819 1455 SAMP 114 110 109
LOG : 244.30 245.20 0.90 FDEPTH: 175 175 BDEPTH: 175 175 BDEPTH: 175 175 Towing dir: 260° Wire on Sorted: 49 Kg Total cat. SPECIES Sepia australis Merluccius capensis, juveniles Merluccius capensis, female Etrumeus whiteheadi Helicclenus dactylopterus Trachurus capensis Holohalaelurus regani Coelorinchus fasciatus Todarodes sagitatus Squalus megalops Cynoglossus capensis Merluccius capensis, male Genypterus capensis Todaropsis eblanae Zeus capensis Congiopodus spinifer Sepia bertheloti Synagrops microlepis Merluccius paradoxus, female Total DATE:25/ 1/94 GEAR start stop duratio Time :02:29:00 02:59:00 30 (10G:292.20 291.90 170 FDEPTH: 215 217 Towing dir: 5° Wire of Sorted: 128 Kg Total cat SPECIES Trachurus capensis Cenypterus cap	min) Purpose code: 3 Area code : 1 GearCond. code: Validity code: ut: 600 m Speed: 31 kr.ch: 192.00 CATCH, CATCH/HOUR weight numbers 230.21 14239 185.68 10816 34.69 25 28.53 455 23.21 92 19.89 76 16.29 227 8.34 19 7.20 19 5.31 57 3.95 3 3.73 9 3.60 57 3.22 38 1.71 19 0.76 0.60 3 604.68 CATCH/HOUR weight numbers 102.60 52 28.42 265 26.53 455 23.21 92 27 28.54 1.71 19 0.76	7*10 7*10	Sorted: Kg Total cat SPECIES Merluccius capensis, female Lophius vomerinus Chelidonichthys capensis Lepidopus caudatus Merluccius capensis, male Merluccius capensis, mueniles Holohalaelurus regani Paracallionymus costatus Trachurus capensis Squalus megalops Etrumeus whiteheadi Zeus capensis Sepia australis Cynoglossus capensis Torpedo nobiliana Todarodes sagittatus Raja caudaspinosa Total DATE:25/ 1/94 Start stop duratic TIME:19:32:00 20:02:00 30 LOG:395.50 397.00 1.50 FDEPTH: 172 175 EDEPTH: 172 175 Sorted: Kg Total cat SPECIES Merluccius capensis, juveniles Thyrsites atun Sepia australis Merluccius capensis, female Raja pullopunctata Raja straeleni Chelidonichthys capensis Merluccius capensis; male Trachurus capensis Lophius vomerinus Holohalaelurus regani Chelidonichthys capensis Zeus capensis Paracallionymus costatus Squalus megalops Merluccius paradoxus, female Cynoglossus capensis	nut: 700 m Speed: 34 kn*10 ch: 358.25 CATCH/HOUR: 716 CATCH/HOUR	104 106 103 105 108 107 221 2819 1455 SAMP 114 110 109
LOG : 244.30 245.20 0.90 FDEPTH: 175 175 BDEPTH: 175 175 Towing dir: 260° Wire on Sorted: 49 Kg Total cat. SPECIES Sepia australis Merluccius capensis, juveniles Merluccius capensis, female Etrumeus whiteheadi Helicolenus dactylopterus Trachurus capensis Holohalaelurus regani Coelorinchus fasciatus Todarodes sagitatus Squalus megalops Cynoglossus capensis Merluccius capensis, male Genypterus capensis Todaropsis eblanae Zeus capensis Congipodus spinifer Sepia bertheloti Synagrops microlepis Merluccius paradoxus, female Total DATE:25/ 1/94 GEAR Start stop duratio TIME :02:290.002:59:00 30 (10G : 292.20 293.90 1.70 FDEPTH: 215 217 Towing dir: 5° Wire of Sorted: 128 Kg Total cat SPECIES Trachurus capensis Cenypterus capensis Cenypterus capensis Cenypterus capensis Cenypterus capensis Cenypterus capensis Cenypterus capensis Lepidopus caudatus Holohalaelurus regani Emmelichtys nitidus Raja leopardus Todaropsis eblanae Chelidonichthys capensis Helicolenus dactylopterus Zeus capensis Congiopodus spinifer	min) Purpose code: 3 Area code : 1 GearCond. code: Validity code: ut: 600 m Speed: 31 kr.ch: 192.00 CATCH, CATCH/HOUR weight numbers 230.21 14239 185.68 10816 34.89 25 28.42 265 23.21 92 19.89 76 16.29 227 8.34 19 7.20 19 5.31 57 3.95 3 3.73 9 3.60 57 3.22 38 1.71 19 0.76 19 0.60 3 604.68 PROPERS BT No:1 POSIT OF STORM PROPERS BT NO:1 POSI	7*10 7*10	Sorted: Kg Total cat SPECIES Merluccius capensis, female Lophius vomerinus Chelidonichthys capensis Lepidopus caudatus Merluccius capensis, juveniles Holohalaelurus regani Paracallionymus costatus Trachurus capensis Squalus megalops Etrumeus whiteheadi Zeus capensis Sepia australis Cynoglossus capensis Torpedo nobiliana Todarodes sagittatus Raja caudaspinosa Total DATE: 25/ 1/94	nut: 700 m Speed: 34 kn*10 ch: 358.25 CATCH/HOUR: 716 CATCH/HOUR	104 106 107 108 107 108 107 108 107 108 107 108 107 108 107 109 114 110 109 113
LOG : 244.30 245.20 0.90 FDEPTH: 175 175 BDEPTH: 175 175 Towing dir: 260° Wire on Sorted: 49 Kg Total cat. SPECIES Sepia australis Merluccius capensis, juveniles Merluccius capensis, female Etrumeus whiteheadi Helicolenus dactylopterus Trachurus capensis Holohalaelurus regani Coelorinchus fasciatus Todarodes sagittatus Squalus megalops Cynoglossus capensis Merluccius capensis, male Genyterus capensis Todaropsis eblanae Zeus capensis Congiopodus spinifer Sepia bertheloti Synagrops microlepis Merluccius paradoxus, female Total DATE:25/ 1/94 GEAR	min) Purpose code: 3 Area code : 1 GearCond. code: Validity code: ut: 600 m Speed: 31 kr .ch: 192.00 CATCH, CATCH/HOUR weight numbers 230.21 14239 185.68 10816 34.89 225 28.42 265 26.53 49.2 265 26.53 49.2 265 26.53 49.2 27 8.34 19 7.20 19 7.20 19 7.30	7*10 7*10	Sorted: Kg Total car SPECIES Merluccius capensis, female Lophius vomerinus Chelidonichthys capensis Lepidopus caudatus Merluccius capensis, male Merluccius capensis, male Merluccius capensis, juveniles Holohalaelurus regani Paracallionymus costatus Trachurus capensis Squalus megalops Etrumeus whiteheadi Zeus capensis Sepia australis Cynoglossus capensis Torpedo nobiliana Todarodes sagittatus Raja caudaspinosa Total DATE: 25/ 1/94 GEAI start stop duratic TIME : 19: 32:00 20:00 30 LOG : 395.50 397.00 1.50 FDEPTH: 172 175 BDEPTH: 172 175 BDEPTH: 172 175 Toving dir: 310* Wire of the start start SPECIES Merluccius capensis, juveniles Thyrsites atun Sepia australis Merluccius capensis, female Raja pullopunctata Raja straeleni Chelidonichthys capensis Lophius vomerinus Holohalaelurus regani Chelidonichthys capensis Zeus capensis Paracallionymus costatus Squalus megalops Merluccius megalops Merluccius paradoxus, female Cynoglossus capensis Etrumeus whiteheadi	nut: 700 m Speed: 34 kn*10 ch: 358.25 CATCH/HOUR: 716 CATCH/HOUR	104 106 107 108 107 108 107 108 107 108 107 109 114 110 109 113

Total

100.01

Total

705.12

Sorted: Kg Total catch: 245.19 CATCH/HOUR: 490.38

SPECIES	CATCH	/HOUR	OF TOT. C	SAMP
	weight	numbers		
Galeorhinus galeus	132.00	6	26.92	
Etrumeus whiteheadi	116.10	2110	23.68	118
Merluccius capensis, juveniles	77.10	8638	15.72	117
Merluccius capensis, male	66.90	528	13.64	115
Chelidonichthys capensis	31.20	126	6.36	
Sepia australis	28.80	1782	5.87	
Merluccius capensis, female	27.30	114	5.57	116
Callorhinchus capensis	3.24	6	0.66	
Sufflogobius bibarbatus	3.06	456	0.62	
Trachurus capensis	2.58	12	0.53	
Genypterus capensis	1.02	6	0.21	
Lepidopus caudatus	0.72	78	0.15	
Lepidopus caudatus	0.72	78	0.15	
Todaropsis eblanae	0.36	12	0.07	
Total	491.10		100.15	

DATE: 26/ 1/94 GEAR TYPE: BT No:1 PROJECT STATION: 23

DATE: 26/ 1/94 GEAR TYPE: BT No:1 POSITION: Lat S 2748

TIME : 12:33:00 13:03:00 30 (min) Purpose code: 3

LOG : 508.70 510.30 1.60 Area code : 1

FDEPTH: 426 435 GearCond.code:

BDEPTH: 426 435 Validity code:

Towing dir: 125* Wire out: 1350 m Speed: 34 kn*10

Sorted: 119 Kg Total catch: 868.82 CATCH/HOUR: 1737.64

SPECIES	CATCH	/HOUR	% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus, female	949.80	2986	54.66	121
Merluccius paradoxus, male	741.60	2306	42.68	120
Coelorinchus fasciatus	24.60	246	1.42	
Genypterus capensis	11.84	6	0.68	119
Helicolenus dactylopterus	4.00	14	0.23	
Malacocephalus laevis	2.04	44	0.12	
Merluccius paradoxus, juvenile	1.88	44	0.11	122
Galeus polli	1.30	14	0.07	
Coelorinchus braueri	0.58	58	0.03	
Total	1737.64		100.00	

Sorted: Kg Total catch: 371.86 CATCH/HOUR: 743.72

SPECIES	CATCH/HOUR		% OF	TOT. C	SAMP
	weight	numbers			
Merluccius paradoxus, female	394.40	370		53.03	124
Trachyrinus scabrus	131.40	1738		17.67	
Deepwater fish mixture	50.20			6.75	
RAJIDAE	40.00	10		5.38	
Deania profundorum	29.50	28		3.97	
Nezumia sp.	19.30	126		2.60	
Malacocephalus laevis	15.78	84		2.12	
Todarodes sagittatus	11.88	22		1.60	
Merluccius paradoxus, male	11.50	12		1.55	125
Photichthys argenteus	10.98	550		1.48	
Merluccius capensis, female	7.30	2		0.98	123
Etmopterus lucifer	5.90	28		0.79	
Laemonema laureysi	5.04	68		0.68	
Hydrolagus sp.	4.96	14		0.67	
Galeus polli	2.20	22		0.30	
Coelorinchus braueri	1.20	62		0.16	
Ebinania costaecanarie	0.70	6		0.09	
Notacanthus sexspinis	0.64	6		0.09	
Beryx splendens	0.40	4		0.05	
CRABS	0.24	4		0.03	
Aristeus varidens	0.20	18		0.03	
Total	743.72		_	100.02	

PROJECT STATION: GEAR TYPE: BT No:1 POSITION: Lat :Lat S 2735 Long E 1437

Sorted: 144 Kg Total catch: 1527.00 CATCH/HOUR: 2955.48

SPECIES	CATCH	/HOUR	OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus, female	2400.00	8166	81.21	127
Merluccius paradoxus, male	326.57	1831	11.05	126
Coelorinchus fasciatus	163.61	1635	5.54	
Trachurus capensis	25.20	62	0.85	
Genypterus capensis	21.00	15	0.71	
Galeus polli	16.47	184	0.56	
Helicolenus dactylopterus	2.25	21	0.08	
Total	2955.10		100.00	

Sorted: 125 Kg Total catch: 496.40 CATCH/HOUR: 992.80

SPECIES	CATCH	/HOUR	& OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus, juvenile	532.80	37686	53.67	130
Merluccius capensis, female	149.50	60	15.06	128
Coelorinchus fasciatus	66.56	1216	6.70	
Galeus polli	66.24	960	6.67	
Helicolenus dactylopterus	61.12	864	6.16	
Malacocephalus laevis	30.40	64	3.06	
PORTUNIDAE	21.44	608	2.16	
Merluccius paradoxus, female	19.50	28	1.96	129
Lophius vomerinus	16.62	4	1.67	131
Trachurus capensis	13.76	32	1.39	
Genypterus capensis	11.56	16	1.16	
Merluccius capensis, male	3.30	2	0.33	
Total	992.80		99.99	

DATE: 3/ 2/94 GEAR TYPE: BT No:1 POSITION: 27
start stop duration
TIME :10:00:00 10:12:00 12 (min) Purpose code: 3
Long E 1422
LOG :1030.50 1304.00 0.50 Area code: 1
FDEPTH: 192 192
SDEPTH: 192 192
Validity code:
Towing dir: * Wire out: 600 m Speed: 29 kn*10

Sorted: 10 Kg Total catch: 10.30 CATCH/HOUR: 51.50

SPECIES	CATCH/	HOUR	% or	TOT. C	SAMP
Sufflogobius bibarbatus	weight 50.00	numbers		97.09	
Merluccius capensis, juveniles	1.50	115		2.91	132
Total	51.50			100.00	

DATE: 3/ 2/94 GEAR TYPE: BT No:1 PROJECT STATION: 28

DATE: 3/ 2/94 GEAR TYPE: BT No:1 POSITION:Lat S 2556

TIME :12:26:00 12:54:00 28 (min) Purpose code: 3

LOG :1320.60 1321.80 1.20 Area code : 1

FDEPTH: 234 234 GearCond.code:

BDEPTH: 234 234 Validity code:

Towing dir: 340* Wire out: 800 m Speed: 35 kn*10

Sorted: 25 Kg Total catch: 1181.11 CATCH/HOUR: 2530.95

SPECIES	CATCH	/HOUR	OF TOT. C	SAMP
	weight	numbers		
Merluccius capensis, female	1404.96	11683	55.51	134
Merluccius capensis, male	951.75	9669	37.60	133
Sufflogobius bibarbatus	118.84	10071	4.70	
Squilla acuelata calmani	55.39	2115	2.19	
Total	2530.94		100.00	

PROJECT STATION: GEAR TYPE: BT No:1 POSITION:Lat S 2557 ration Long E 1403 DATE: 3/ 2/94 DATE: 3/2/94 GEAR TYPE: BT No:1 POSITION:L. start stop duration
TIME :14:54:00 15:24:00 30 (min) Purpose code: 3 Log: 334:90 336.50 Area code: 1 FDEPTH: 286 290 GearCond.code: BDEPTH: 286 290 Validity code: Towing dir: 343* Wire out: 900 m Speed: 33 kn*10 Sorted: 274 Kg Total catch: 2219.41 CATCH/HOUR: 4438.82

			•	
SPECIES	CATCH	/HOUR	N OF TOT. C	SAMP
	weight	numbers		
Merluccius capensis, female	939.40	418	21.16	137
Merluccius capensis, female	937.20	4158	21.11	139
Trachurus capensis	919.60	3168	20.72	140
MYCTOPHIDAE	429.70		9.68	
Merluccius capensis, male	383.90	1936	8.65	138
Lophius vomerinus	231.84	58	5.22	135
Squilla acuelata calmani	148.12	7072	3.34	
Todarodes sagittatus	125.44	266	2.83	
Merluccius capensis, male	99.00	44	2.23	136
Coelorinchus coelorinch, polli	85.40	1468	1.92	
Galeus polli	70.72	1868	1.59	
BIVALVES	37.36	2268	0.84	
Sufflogobius bibarbatus	14.68	4538	0.33	
Helicolenus dactylopterus	13.86	22	0.31	
Austroglossus microlepis	2.60	4	0.06	
Total	4438.82		99.99	

start stop duration TIME :06:45:00 07:15:00 30 (min LOG :1469.60 1471.30 FDEPTH: 182 181 BDEETH: 182 181	PROJECT STATION: 30 PE: BT No:1 POSITION:Lat S 264S Long E 1447 1) Purpose code: 3 Area code: 1 GearCond.code: Validity code: 600 m Speed: 34 kn*10	FDEPTH: 493 464 Ge BDEPTH: 493 464 Va	Long E 1345
Sorted: 22 Kg Total catch:	195.57 CATCH/HOUR: 391.14	Sorted: 122 Kg Total catch: 2	244.24 CATCH/HOUR: 488.48
SPECIES	CATCH/HOUR % OF TOT. C SAMP weight numbers	SPECIES	CATCH/HOUR % OF TOT. C SAMP
Merluccius capensis, female Merluccius capensis, juveniles Merluccius capensis, male Trachurus capensis Sufflogobius bibarbatus Total	208.80 1512 53.38 142 74.70 1170 19.10 144 61.20 576 15.65 141 42.48 234 10.86 143 3.96 720 1.01	Merluccius paradoxus, female 32] Lithodes ferox 36 Merluccius paradoxus, male 27 Lophius vomerinus 27 Todarodes sagittatus 16 Helicolenus dactylopterus 16 Coelorinchus braueri 17	ht numbers 1.40 376 65.80 162 1.60 80 7.49 1.80 36 4.67 163 1.92 44 3.87 1.88 56 3.46 1.89 312 2.62
start stop duration TIME :09:02:00 09:32:00 30 (min log :1483.20 1484.80 FDEPTH: 252 253 BDEPTH: 252 253	PROJECT STATION: 31 PE: BT No:1 POSITION:Lat S 2646 Long E 1436 Purpose code: 3 Area code: 1 GearCond.code: Validity code: 750 m Speed: 32 kn*10	Raja confundens Hydrolagus sp. Etmopterus lucifer Etmopterus pusillus PORTUNIDAE Deania profundorum	1,60 332 1,97 7,28 16 1,49 1,50 8 1,15 1,00 8 1,02 1,04 12 0,83 1,64 56 0,75 1,24 4 0,25
Sorted: 167 Kg Total catch:			
SPECIES	CATCH/HOUR % OF TOT. C SAMP weight numbers		
Merluccius capensis, female Merluccius capensis, male Centrolophus niger Merluccius capensis, female Callorhinchus capensis Lophius vomerinus Austroglossus microlepis Sufflogobius bibarbatus Squilla acuelata calmani Genypterus capensis Merluccius capensis, juveniles Trachipterus jacksonensis	1604.00 2274 50.45 146 1039.50 1870 32.69 145 273.20 36 8.59 96.40 60 3.03 147 70.40 74 2.21 41.70 28 1.31 149 25.50 36 0.80 148 9.90 1944 0.31 6.58 478 0.21 6.00 10 0.19 4.76 294 0.15 1.46 36 0.05	LOG :1558.60 1560.10 1.50 A: FDEPTH: 418 415 BDEPTH: 418 415 Towing dir: Wire out:1300	PROJECT STATION: 36 BT No:1 POSITION:Lat S 2632 Long E 1347 Long E
		SPECIES	CATCH/HOUR & OF TOT. C SAMP
start stop duration TIME :11:45:00 12:15:00 30 (mir LOG :1499.70 15:01:40 1.70 FDEPTH: 338 338 BDEPTH: 338 338	Area code : 1 GearCond.code: Validity code: :1050 m Speed: 32 kn*10	Merluccius paradoxus, female 97. Coelorinchus fasciatus 23 Merluccius paradoxus, male 16 Selachophidium guentheri 1 Galeus polli 1 Genypterus capensis Nezumia sp. Helicolenus dactylopterus PORTUNIDAE	
SPECIES	CATCH/HOUR % OF TOT. C SAMP		0.80 100.01
Merluccius paradoxus, female Merluccius capensis, female Merluccius capensis, male Coelorinchus fasciatus Merluccius paradoxus, male PORTUNIDAE Genyterus capensis Lophius vomerinus Nezumia sp. Helicolenus dactylopterus	weight 514,20 numbers 164,02 48.50 152 281,40 396 26.54 150 89,40 228 8.43 151 69.84 1488 6.59 153 27.72 564 2.61 15.50 15.50 6 1.46 154 12.90 4 1.22 155 6.96 240 0.66 2.16 2.16 24 0.20	start stop duration TIME :01:22:00 01:52:00 30 (min) P LOG :1576.00 1577.30 1.30 A	rea code : 1
		BDEPTH: 587 590 V	earCond.code: 8 alidity code:
start stop duration TIME :14:30:00 15:00:00 30 (min LOG :1515.60 1517.20 1.60 FDEPTH: 380 380 BDEPTH: 380 380 Towing dir: 360* Wire out:	Area code : 1 GearCond.code: Validity code: :1200 m Speed: 35 kn*10	SPECIES wei Merluccius paradoxus, female 24 Coelorinchus fasciatus 19	350.94 CATCH/HOUR: 701.88 CATCH/HOUR & OF TOT. C SAMP ght numbers 1.80 192 34.45 166 2.40 520 27.41
Sorted: 140 Kg Total catch		Nezumia sp. 4	8.56 52 16.89 3.94 840 6.26
Merluccius paradoxus, female Coelorinchus fasciatus PORTUNIDAE Helicolenus dactylopterus Merluccius paradoxus, male Genypterus capensis Todarodes sagittatus Deepwater fish mixture Lophius vomerinus Nezumia sp. Galeus poli Salachophidium guentheri Raja confundens Shrimps, small, non comm.	CATCH/HOUR t OF TOT. C SAMP weight numbers 1349.80 3654 70.55 157 132.94 1716 6.95 105.40 1972 5.51 104.00 884 5.44 50.14 170 2.62 1.56 37.00 22 1.93 159 32.46 84 1.70 27.36 1.43 24.70 6 1.29 158 21.42 476 1.12 19.04 152 1.00 4.76 84 0.25 2.32 2 0.12 1.86 526 0.10	Todarodes sagittatus 1 Selachophidium guentheri 1 Allocyttus verrucosus 1 Etmopterus lucifer 1 Notacanthus sexspinis Hoplostethus atlanticus Raja confundens Trachyrinus scabrus GONOSTOMATIOAE Shrimps, small, non comm. Galeus polli	2.76 26 4.67 6.54 32 2.36 6.32 188 2.33 2.48 110 1.78 1.96 52 1.70 5.24 68 0.75 4.00 10 0.57 2.20 16 0.31 1.82 16 0.26 0.82 78 0.12 0.52 114 0.07 0.52 6 0.07
Total	1913.20 100.01		
start stop duration TIME :17:00:00 17:30:00 30 (mi LOG : 529:30 530.80 1.10 FDEPTH: 413 414 Towing dir: 350* Wire out Sorted: 80 Kg Total catch SPECIES Merluccius paradoxus. female Coelorinchus fasciatus Merluccius paradoxus. male Genypterus capensis Deepwater fich mixture Galeus polli Todarodes sagittatus PORTUNIDAE Helicolenus dactylopterus Selachophidium guentheri Raja confundens Lithodes ferox Shrimps, small, non comm. Lophius vomerinus	Area code : 1 GearCond.code: Validity code: : 1200 m Speed: 33 kn*10 11: 243.22 CATCH/HOUR: 486.44 CATCH/HOUR	FDEPTH: 411 415 C BDEPTH: 411 415 V Towing dir: 350* Wire out:1200 Sorted: 88 Kg Total catch: SPECIES Merluccius paradoxus, female 105 Merluccius paradoxus, male 12 Coelorinchus fasciatus 2 Deepwater fish mixture 1 Helicolenus dactylopterus 1 Todarodes sagittatus Galeus polli	Long E 1313
PSYCHROLUTIDAE	0.12 6 0.02		

Total

DATE: 6/ 2/94 GEA	PROJ R TYPE: BT No:1 POSITI	ECT STATIO	พ: 39 : 2620	DATE: 6/ 2/94 GE	EAR TYPE: BT No:1	PROJECT STATE	ION: 44 S 2606
start stop duratic TIME :08:20:00 08:50:00 30 LOG :1613:60 1615:30 1.70 FDEPTH: 348 343 BDEPTH: 348 343	on		1404	Start stop durat TIME :19:25:00 19:55:00 30 LOG :1682.71 1684.30 1.55 FDEPTH: 305 309 BDEPTH: 305 309	ion (min) Purpose cod Area code GearCond.co	Long de: 3 : 1 ode:	E 1403
	out:1100 m Speed: 33 km	*10			Validity co out: 900 m Speed:	33 kn*10	
Sorted: 210 Kg Total ca	•		325.30	Sorted: 142 Kg Total o	catch: 792.87	CATCH/HOUR:	1585.74
SPECIES	weight numbers	OF TOT. C	SAMP	SPECIES	CATCH/HOUR		C SAMP
Merluccius paradoxus, female Merluccius paradoxus, male	2559.40 2558 287.80 1064 187.50 144	76.97 8.65	173 172 170	Merluccius capensis, female		1704 71.32	193
Merluccius capensis, female Coelorinchus fasciatus Lophius vomerinus	187.50 144 104.50 2164 49.90 18	5.64 3.14 1.50	170	Merluccius capensis, male Coelorinchus fasciatus Deepwater fish mixture	265,80 37,68 27,82	720 16.76 636 2.38 1.75	192
Nezumia leonis Helicolenus dactylopterus	40.30 1430 32.20 330	1.21	171	Lophius vomerinus Merluccius paradoxus, female	26.60 22.20	14 1.68 108 1.40	196 195
Galeus polli Merluccius capensis, male	24.20 330 13.00 14	0.73 0.39	169	Trachurus capensis Callorhinchus capensis	16.32 12.96	60 1.03 12 · 0.82	173
Selachophidium guentheri PORTUNIDAE	12.40 330 12.10 330	0.37		Galeus polli Helicolenus dactylopterus	12.72 9.24	432 0.80 48 0.58	
Genypterus capensis	2.00 2	0.06		Todarodes sagittatus Squilla acuelata calmani	8.28 6.12	12 0.52 336 0.39	
Total	3325.30	99.99		PORTUNIDAE Merluccius paradoxus, male	4.80 4.20	156 0.30 12 0.26	194
D100 67 2704		JECT STATIC		m-4-1	1506 74		
DATE: 6/ 2/94 GEA start stop durati TIME :10:25:00 10:36:00 11	on	ON:Lat S Long E	E 1416	Total	1585.74	99.99	
LOG :1624.07 1624.78 0.71 FDEPTH: 302 298	Area code : 1 GearCond.code:						
BDEPTH: 302 298	Validity code: out: 950 m Speed: 34 kn	*10					
Sorted: 87 Kg Total ca			599.00			PROJECT STAT	ION: 45
SPECIES		OF TOT. C	SAMP	start stop durat		Long	S 2658 E 4826
Merluccius capensis, female	weight numbers 1796.51 5225	39.06	175	TIME :22:28:00 22:58:00 30 LOG :1700.50 1701.90 1.40 FDEPTH: 383 384	O Area code	: 1	
Merluccius capensis, male Merluccius paradoxus, female Galeus polli	1161.65 3905 872.51 6038 158.29 3807	25.26 18.97 3.44	174 177	BDEPTH: 383 384	GearCond.co Validity co out:1150 m Speed:	ode:	
Merluccius paradoxus, male Deepwater fish mixture	139.53 813 136.47	3.03 2.97	176	Sorted: 130 Kg Total o			1637.14
Coelorinchus fasciatus Lophius vomerinus	132.38 3496 111.00 65	2.88	179	2020000 200 0,9	010.5	careny noon.	1037.14
PORTUNIDAE Genypterus capensis	33.98 1015 30.82 5	0.74 0.67	178	SPECIES	CATCH/HOUR weight numb		C SAMP
Squalus megalops Squilla acuelata calmani	14.18 49 9.65 813	0.31 0.21		Merluccius paradoxus, female Coelorinchus fasciatus	141.36	1154 60.10 1172 8.63	198
Nezumia leonis	2.02 49	0.04		Helicolenus dactylopterus Merluccius capensis		724 6.52 2082 5.83	
Total	4598.99	99.99		Merluccius paradoxus, male Galeus polli	61.38 53.40	94 3.75 484 3.26	197
				Lophius vomerinus Genypterus capensis Raja confundens	52.50 41.80 40.92	20 3.21 18 2.55 36 2.50	
DATE: 6/ 2/94 GEA		JECT STATIO		Callorhinchus capensis Todarodes sagittatus	24.54 19.72	18 1.50 18 1.20	
start stop durati TIME :12:20:00 12:50:00 30	on (min) Purpose code: 3	Long 1	E 1429	Trachurus capensis PORTUNIDAE	10.96 4.46	36 0.67 74 0.27	
LOG :1636.40 1638.00 1.60 FDEPTH: 267 264	Area code : 1 GearCond.code:						
BDEPTH: 267 264 Towing dir: 87° Wire	Validity code: out: 780 m Speed: 33 kn	*10		Total	1637.14	99.99	
Sorted: 60 Kg Total ca	tch: 307.27 CATCH,						
corted: oo ng locar ca	10011: 307.27 CATCH)	/HOUR:	614.54				
SPECIES TOTAL CO	CATCH/HOUR %	OF TOT. C					
SPECIES Deepwater fish mixture Coelorinchus fasciatus	CATCH/HOUR % Weight numbers 288.40 99.00 1900	OF TOT. C 46.93 16.11			EAR TYPE: BT No:1		s 2557
SPECIES Deepwater fish mixture Coelorinchus fasciatus Callorhinchus capensis Sufflogobius bibarbatus	CATCH/HOUR Weight numbers 288.40 99.00 1900 58.20 20 47.60 13060	OF TOT. C 46.93 16.11 9.47 7.75	SAMP	start stop dura TIME :01:40:00 02:10:00 30	tion (min) Purpose cod	POSITION:Lat Long de: 3	s 2557
SPECIES Deepwater fish mixture Coelorinchus fasciatus Callorhinchus capensis Sufflogobius bibarbatus Merluccius capensis, female Galeus polli	CATCH/HOUR weight numbers 288.40 99.00 1900 58.20 20 47.60 13060 34.80 48 31.00 640	OF TOT. C 46.93 16.11 9.47 7.75 5.66 5.04	SAMP	Start stop dura TIME :01:40:00 02:10:00 30 LOG :1718.20 1719.70 1.50 FDEPTH: 652 643	tion (min) Purpose cod 0 Area code GearCond.co	POSITION:Lat Long de: 3 : 1 ode:	s 2557
SPECIES Deepwater fish mixture Coelorinchus fasciatus Callorhinchus capensis Sufflogobius bibarbatus Merluccius capensis, female	CATCH/HOUR weight numbers 288.40 99.00 1900 58.20 20 47.60 13060 34.80 48	OF TOT. C 46.93 16.11 9.47 7.75 5.66 5.04 3.24 1.99	SAMP	start stop dura TIME :01:40:00 02:10:00 30 LOG :1718.20 1719.70 1.50	tion (min) Purpose cod 0 Area code GearCond.co Validity co	POSITION:Lat Long de: 3 : 1 ode:	s 2557
SPECIES Deepwater fish mixture Coelorinchus fasciatus Callorhinchus capensis Sufflogobius bibarbatus Merluccius capensis, female Galeus polli Genypterus capensis Squilla acuelata calmani Merluccius capensis, male Merluccius capensis, juveniles Todaropsis eblanae	CATCH/HOUR weight numbers 288.40 99.00 1900 58.20 20 47.60 13060 34.80 48 31.00 640 19.90 12 12.20 780 9.20 46 7.20 600 4.00 40	OF TOT. C 46.93 16.11 9.47 7.75 5.66 5.04 3.24 1.99 1.50 1.17 0.65	181 182 180 185	start stop dura' TIME :01:40:00 02:10:00 03: LOG :1718.20 1719.70 1.5' FDEPTH: 652 643 BDEPTH: 652 643	tion (min) Purpose cod 0 Area code GearCond.co Validity co	POSITION:Lat Long de: 3 : 1 ode: ode: ode:	s 2557 E 1335
SPECIES Deepwater fish mixture Coelorinchus fasciatus Callorhinchus capensis Sufflogobius bibarbatus Herluccius capensis, female Galeus polli Genypterus capensis Squilla acuelata calmani Merluccius capensis, male Merluccius capensis, juveniles	CATCH/HOUR weight numbers 288.40 99.00 1900 58.20 20 47.60 13060 34.80 48 31.00 640 19.90 12 12.20 780 9.20 46 7.20 600	OF TOT. C 46.93 16.11 9.47 7.75 5.66 5.04 3.24 1.99 1.50 1.17		start stop dura TIME :01:40:00 02:10:00 30 LOG :1718.20 1719.70 1.50 FDEPTH: 652 643 BDEPTH: 652 643 Towing dir: 360° Wire	tion (min) Purpose co (min) Purpose co Area code GearCond.cc Validity cc out:1950 m Speed: catch: 630.25	POSITION:Lat Long de: 3 : 1 ode: ode: ode: cot: catch/Hour: R % OF TOT.	\$ 2557 E 1335
SPECIES Deepwater fish mixture Coelorinchus fasciatus Callorhinchus capensis Sufflogobius bibarbatus Merluccius capensis, female Galeus polli Genypterus capensis Squilla acuelata calmani Merluccius capensis, male Merluccius capensis, juveniles Todaropsis eblanae Lophius vomerinus Austroglossus microlepis	CATCH/HOUR weight numbers 288.40 99.00 1900 58.20 20 47.60 13060 34.80 48 31.00 640 19.90 12.20 780 9.20 46 7.20 600 4.00 40 1.84 2 1.20 2	OF TOT. C 46.93 16.11 9.47 7.75 5.66 5.04 3.24 1.99 1.50 0.11 0.65 0.30 0.20		start stop dura: TIME: 001:40:00 02:10:00 30 LOG: 1718.20 1719.70 1.5; FDEPTH: 652 643 BDEPTH: 652 643 Towing dir: 360° Wire Sorted: 143 Kg Total of	tion (min) Purpose cod Area code GearCond.co Validity coe out:1950 m Speed: catch: 630.25 CATCH/HOUI weight numb 315.00 11	POSITION: Lat Long de: 3 ode: ode: ode: code: CATCH/HOUR: R % OF TOT. bers 0962 24.99	\$ 2557 E 1335 / 1260.50
SPECIES Deepwater fish mixture Coelorinchus fasciatus Callorhinchus capensis Sufflogobius bibarbatus Merluccius capensis, female Galeus polli Genypterus capensis, squilla acuelata calmani Merluccius capensis, male Merluccius capensis, juveniles Todaropsis eblanae Lophius vomerinus	CATCH/HOUR weight numbers 288.40 99.00 1900 58.20 20 47.60 13060 34.80 48 31.00 640 19.90 12.20 780 9.20 46 7.20 600 4.00 40 1.84 2	OF TOT. C 46.93 16.11 9.47 7.75 5.66 5.04 3.24 1.99 1.50 1.17 0.65		start stop dura: TIME :01:40:00 02:10:00 30 LOG :1718.20 1719.70 1.5: FDEPTH: 652 643 BDEPTH: 652 643 Towing dir: 360° Wire Sorted: 143 Kg Total : SPECIES Nezumia sp. Merluccius paradoxus, male Allocyttus verrucosus	tion (min) Purpose cod Area code GearCond. co Validity code out:1950 m Speed: catch: 630.25 CATCH/HOUI weight numb 315.00 16 221.60 214.20	POSITION: Lat Long de: 3 1 1 1 1 1 1 1 1 1	S 2557 E 1335 , 1260.50 C SAMP
SPECIES Deepwater fish mixture Coelorinchus fasciatus Callorhinchus capensis Sufflogobius bibarbatus Merluccius capensis, female Galeus polli Genypterus capensis Squilla acuelata calmani Merluccius capensis, male Merluccius capensis, juveniles Todaropsis eblanae Lophius vomerinus Austroglossus microlepis	CATCH/HOUR Numbers 288.40 99.00 1900 58.20 20 47.60 13060 34.80 48 31.00 640 19.90 12.20 780 9.20 46 7.20 6600 4.00 40 1.84 2 1.20 2	OF TOT. C 46.93 16.11 9.47 7.75 5.66 5.04 3.24 1.99 1.50 0.1.17 0.65 0.30 0.20	181 182 180 185 183 184	start stop dura TIME :01:40:00 02:10:00 30 LOG :1718.20 1719.70 1.5 FDEPTH: 652 643 BDEPTH: 652 643 Towing dir: 360° Wire Sorted: 143 Kg Total of SPECIES Nezumia sp. Merluccius paradoxus, male Allocyttus verrucosus Deania profundorum Selachophidium guentheri	tion (min) Purpose cod Area code GearCond.c Validity or cout:1950 m Speed: catch: 630.25 CATCH/HOUI Weight numb 315.00 14 221.60 214.20 161.28 89.04	POSITION: Lat Long de: 3 code: code: sode: 32 kn*10 CATCH/HOUR: R	\$ 2557 E 1335 / 1260.50 C SAMP
SPECIES Deepwater fish mixture Coelorinchus fasciatus Callorhinchus capensis Sufflogobius bibarbatus Merluccius capensis, female Galeus polli Genypterus capensis Squilla acuelata calmani Merluccius capensis, male Merluccius capensis, juveniles Todaropsis eblanae Lophius vomerinus Austroglossus microlepis Total DATE: 6/ 2/94 Start stop durati	CATCH/HOUR weight numbers 288.40 99.00 1900 58.20 20 47.60 13060 34.80 48 31.00 640 19.90 12 12.20 780 9.20 46 7.20 600 4.00 40 1.84 2 1.20 2 614.54	OF TOT. C 46.93 16.11 9.47 7.75 5.66 5.04 3.24 1.99 1.50 1.17 0.65 0.30 0.20	181 182 180 185 183 184	start stop dura TIME: 001:40:00 02:10:00 30 LOG: 1718.20 1719.70 1.5 FDEPTH: 652 643 BDEPTH: 652 643 Towing dir: 360° Wire Sorted: 143 Kg Total of SPECIES Nezumia sp. Merluccius paradoxus, male Allocyttus verrucosus Deania profundorum Selachophidium guentheri Raja confundens Coelorinchus fasciatus Ebinania costaecanarie	tion (min) Purpose cod (min) Purpose cod 0 Area code GearCond.co validity or cout:1950 m Speed: catch: 630.25 CATCH/HOU weight numl 315.00 10 221.60 214.20 161.28	POSITION: Lat Long de: 3 code: code: sode: 32 kn*10 CATCH/HOUR: R	\$ 2557 E 1335 / 1260.50 C SAMP
SPECIES Deepwater fish mixture Coelorinchus fasciatus Callorhinchus capensis Sufflogobius bibarbatus Merluccius capensis, female Galeus polli Genypterus capensis Squilla acuelata calmani Merluccius capensis, male Merluccius capensis, male Merluccius capensis, juveniles Todaropsis eblanae Lophius vomerinus Austroglossus microlepis Total DATE: 6/ 2/94 GEN	CATCH/HOUR weight numbers 288.40 99.00 1900 58.20 20 47.60 13060 34.80 48 31.00 640 19.90 12 12.20 780 9.20 46 7.20 600 4.00 40 1.84 2 1.20 2 614.54 PROCESSITION (min) Purpose code: 3 Area code: 3 Area code: 3	OF TOT. C 46.93 16.11 9.47 7.75 5.66 5.04 3.24 1.99 1.50 0.10 0.65 0.30 0.20 JECT STATIL ION: Lat Long	181 182 180 185 183 184	start stop dura TIME :01:40:00 02:10:00 30 LOG :1718.20 1719.70 1.5 FDEPTH: 652 643 BDEPTH: 652 643 Towing dir: 360° Wire Sorted: 143 Kg Total of SPECIES Nezumia sp. Merluccius paradoxus, male Allocyttus verrucosus Deania profundorum Selachophidium guentheri Raja confundens Coelorinchus fasciatus Ebinania costaecanarie Todarodes sagittatus Notaeanthus sexspinis	tion (min) Purpose cod Area code GearCond.c Validity or cout:1950 m Speed: catch: 630.25 CATCH/HOUI Weight numb 315.00 11 221.60 214.20 161.28 89.04 73.50 52.92	POSITION: Lat Long de: 3 code: code: sode: 32 kn*10 CATCH/HOUR: R	S 2557 E 1335 / 1260.50 C SAMP
Deepwater fish mixture Coelorinchus fasciatus Callorhinchus capensis Sufflogobius bibarbatus Merluccius capensis, female Galeus polli Genypterus capensis, female Galeus polli Genypterus capensis, male Merluccius capensis, male Merluccius capensis, juveniles Todaropsis eblanae Lophius vomerinus Austroglossus microlepis Total DATE: 6/ 2/94 start stop durati TIME: 14:50:00 15:01:00 11 LOG :1650.70 1651.40 0.70 FDEPTH: 246 243 BDEPTH: 246 243 BDEPTH: 246 243	CATCH/HOUR weight numbers 288.40 99.00 1900 58.20 20 47.60 13060 34.80 48 31.00 640 19.90 12 12.20 780 9.20 46 7.20 600 4.00 40 1.84 2 1.20 2 614.54 POSITION (min) Purpose code: 3 Area code: 1 GearCond.code: 9 Validity code:	OF TOT. C 46.93 16.11 9.47 7.77 5.66 5.60 43.24 1.99 1.50 0.10 0.20 JECT STATIC	181 182 180 185 183 184	start stop dura TIME: 001:40:00 02:10:00 30 LOG: 1718.20 1719.70 1.5 FDEPTH: 652 643 BDEPTH: 652 643 Towing dir: 360° Wire Sorted: 143 Kg Total of SPECIES Nezumia sp. Merluccius paradoxus, male Allocyttus verrucosus Deania profundorum Selachophidium guentheri Raja confundens Coelorinchus fasciatus Ebinania costaecanarie Todarodes sagittatus Notaeanthus sexspinis Merluccius paradoxus, female Etmopterus brachyurus Etmopterus brachyurus Etmopterus brachyurus	tion (min) Purpose cod 0 Area code GearCond.co Validity code coatch: 630.25 CATCH/HOUI Weight num 315.00 16 221.60 214.20 161.28 89.04 73.50 52.92 41.58 28.56 27.30 16.20 5.88	POSITION: Lat Long de: 3 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1	S 2557 E 1335
Deepwater fish mixture Coelorinchus fasciatus Callorhinchus capensis Sufflogobius bibarbatus Merluccius capensis, female Galeus polli Genypterus capensis, female Galeus polli Genypterus capensis, male Merluccius capensis, male Merluccius capensis, juveniles Todaropsis eblanae, Lophius vomerinus Austroglossus microlepis Total DATE: 6/ 2/94 GEM start stop durati TIME: 14:50:00 15:01:00 11 LOG :1655.70 1651.40 0.70 FDEPTH: 246 243 BDEPTH: 246 243 Towing dir: 110* Wire	CATCH/HOUR weight numbers 288.40 99.00 1900 58.20 20 47.60 13060 34.80 48 31.00 640 19.90 12 12.20 780 9.20 46.7.20 600 4.00 40 1.84 2 1.20 2 614.54 POSITION (min) Purpose code: 3 Area code : 1 GearCond.code: 9 validity code: out: 730 m Speed: 31 km	OF TOT. C 46.93 16.11 9.47 7.77 5.66 5.60 43.24 1.99 1.50 0.30 0.20 JECT STATION LAT Long in	SAMP 181 182 180 185 183 184 DN: 42 S 2617 E 1434	start stop dura TIME: 001:40:00 02:10:00 30 LOG: 1718.20 1719.70 1.5 FDEPTH: 652 643 BDEPTH: 652 643 Towing dir: 360° Wire Sorted: 143 Kg Total of SPECIES Nezumia sp. Merluccius paradoxus, male Allocyttus verrucosus Deania profundorum Selachophidium guentheri Raja confundens Coelorinchus fasciatus Ebinania costaecanarie Todarodes sagittatus Notacanthus sexspinis Merluccius paradoxus, female Etmopterus brachyurus Trachyrinus scabrus Hoplostethus melanopus	tion (min) Purpose cod Area code GearCond.co Validity co e out:1950 m Speed: catch: 630.25 CATCH/HOUI weight num 315.00 161.28 89.04 73.50 52.92 41.58 28.56 27.30 16.20 5.88 5.04 3.78	POSITION: Lat Long de: 3 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1	S 2557 E 1335
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DATE: 6/ 2/94 DATE: 6/ 2/94 Start stop durati TIME : 14.50.00 15.01.00 11 LOG : 1650.70 1651.40 0.70 DATE: 6/ 2/94 Start stop durati TIME : 14.50.00 15.01.00 11 LOG : 1650.70 1651.40 0.70 FDEPTH: 246 243 Towing dir: 110* Wire Sorted: 43 Kg Total ca SPECIES Deepwater fish mixture Merluccius capensis, female Callorhinchus capensis Total	CATCH/HOUR weight numbers 288.40 99.00 1900 58.20 20 47.60 13060 34.80 48 31.00 640 19.90 12 12.20 780 9.20 46 7.20 600 4.00 4.00 40 1.84 2 1.20 2 2 614.54 2 1.20 2 2 614.54 2 1.20 2 2 614.54 2 1.20 2 2 614.54 2 1.20 2 2 614.54 2 1.20 2 2 615.54 2 615.54 2 615.55	OF TOT. C 46.93 16.11 9.47 7.77 5.66 5.04 3.24 1.99 1.50 0.20 100.01 JECT STATIC ION: Lat Long 1 7+10 /HOUR: OF TOT. C 37.45 29.11 10.36 10.20 5.16 2.45 1.58 1.01 0.92 0.60 0.55 0.39	SAMP	start stop dura TIME :01:40:00 02:10:00 30 LOG :1718.20 1719.70 1.5 FDEPTH: 652 643 BDEPTH: 652 643 Towing dir: 360° Wire Sorted: 143 Kg Total : SPECIES Nezumia sp. Merluccius paradoxus, male Allocyttus verrucosus Deania profundorum Selachophidium guentheri Raja confundens Coelorinchus fasciatus Ebinania costaecanarie Todarodes sagittatus Notacanthus sexspinis Merluccius paradoxus, female Etmopterus brachyurus Trachyrinus scabrus Hoplostethus melanopus Photichthys argenteus Galeus polli Total DATE: 7/ 2/94 start stop dura TIME :04:54:00 05:24:00 30 LOG :1736.50 1738.10 1.6 FDEPTH: 574 588 BDEPTH: 574 588 Towing dir: 345° Wire	tion (min) Purpose code (min) Purpose (min) Pu	POSITION: Lat Long de: 3	S 2557 E 1335 / 1260.50 C SAMP 201 202
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Deepwater fish mixture Coelorinchus fasciatus Callorhinchus capensis Sufflogobius bibarbatus Merluccius capensis, female Galeus polli Genypterus capensis Squilla acuelata calmani Merluccius capensis, male Merluccius capensis, juveniles Todaropsis eblanae Lophius vomerinus Austroglossus microlepis Total DATE: 6/ 2/94 GEM	CATCH/HOUR weight numbers 288.40 99.00 1900 58.20 20 47.60 13060 34.80 48 31.00 640 19.90 12 12.20 780 9.20 46 7.20 600 4.00 4.00 40 1.84 2 1.20 2 614.54	OF TOT. C 46.93 16.11 9.47 7.75 5.66 5.04 3.24 1.99 1.50 0.20 100.01 JECT STATI(10.36 10.20 37.45 29.11 10.36 10.20 5.16 2.45 1.58 1.58 1.59 0.20	SAMP 181 182 180 185 183 184 ON: 42 S 2617 E 1434 237.98 SAMP 187 186 189 188	start stop dura TIME :01:40:00 02:10:00 30 LOG :1718.20 1719.70 1.5 FDEPTH: 652 643 BDEPTH: 652 643 Towing dir: 360° Wire Sorted: 143 Kg Total : SPECIES Nezumia sp. Merluccius paradoxus, male Allocyttus verrucosus Deania profundorum Selachophidium guentheri Raja confundens Coelorinchus fasciatus Ebinania costaecanarie Todarodes sagittatus Notacanthus sexspinis Merluccius paradoxus, female Etmopterus brachyurus Trachyrinus scabrus Hoplostethus melanopus Photichthys argenteus Galeus polli Total DATE: 7/ 2/94 start stop dura TIME :04:54:00 05:24:00 30 LOG :1736.50 1738.10 1.6 FDEPTH: 574 588 BDEPTH: 574 588 Towing dir: 345° Wire	tion (min) Purpose code (min) Purpose (min) Pu	POSITION:Lat Long de: 3 1 1 ode: 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	S 2557 E 1335 / 1260.50 C SAMP 201 202 ION: 47 S 2539 E 1334
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Deepwater fish mixture Coelorinchus fasciatus Callorhinchus capensis Sufflogobius bibarbatus Merluccius capensis female Galeus polli Genypterus capensis Squilla acuelata calmani Merluccius capensis, male Merluccius capensis, juveniles Todaropsis eblanae Lophius vomerinus Austroglossus microlepis Total DATE: 6/ 2/94 GEP	CATCH/HOUR weight numbers 288.40 99.00 1900 58.20 20 47.60 13060 34.80 48 31.00 640 19.90 12 12.20 780 9.20 46 7.20 600 4.00 4.00 40 1.84 2 1.20 2 614.54	OF TOT. C 46.93 16.11 9.47 7.75 5.66 5.04 3.24 1.99 1.50 0.20 100.01 JECT STATIC ION: Lat Long 1 29.45 29.11 10.36 10.20 37.45 29.11 10.36 10.20 10.01 JECT STATIC JECT	SAMP	start stop dura TIME :01:40:00 02:10:00 30 LOG :1718.20 1719.70 1.5 FDEPTH: 652 643 BDEPTH: 652 643 Towing dir: 360° Wire Sorted: 143 Kg Total : SPECIES Nezumia sp. Merluccius paradoxus, male Allocyttus verrucosus Deania profundorum Selachophidium guentheri Raja confundens Coelorinchus fasciatus Ebinania costaecanarie Todarodes sagittatus Notacanthus sexsplnis Merluccius paradoxus, female Etmopterus brachyurus Trachyrinus scabrus Hoplostethus melanopus Galeus polli Total DATE: 7/ 2/94 start stop dura TIME :04:54:00 05:24:00 30 LOG :1736.50 1738.10 1.6 FDEPTH: 574 588 BDEPTH: 574 588 BDEPTH: 574 588 SPECIES Nezumia leonis Hoplostethus melanopus Selachophidium guentheri Merluccius paradoxus, female	tion (min) Purpose code (min) Purpose code (min) Purpose code (min) Speed: (min) Purpose code (min) Speed:	POSITION:Lat Long de: 3 Lode: 3 Long de: 4 Long de: 3 Long de: 4 Long de: 4 Long de: 4 Long de: 5 L	S 2557 E 1335 / 1260.50 C SAMP 201 202 202 ION: 47 S 2539 E 1334 869.00 C SAMP
Deepwater fish mixture Coelorinchus fasciatus Callorhinchus capensis Sufflogobius bibarbatus Merluccius capensis female Galeus polli Genypterus capensis Squilla acuelata calmani Merluccius capensis, male Merluccius capensis, juveniles Todaropsis eblanae Lophius vomerinus Austroglossus microlepis Total DATE: 6/ 2/94 GEP	CATCH/HOUR weight numbers 288.40 99.00 1900 58.20 20 47.60 13060 34.80 48 31.00 640 19.90 12 12.20 780 9.20 46 7.20 600 4.00 4.01 4.00 40 1.84 2 1.20 2 614.54	OF TOT. C 46.93 16.11 9.47 7.75 5.66 5.04 3.24 1.99 1.50 0.20 100.01 JECT STATIC ION: Lat Long 1 29.45 29.11 10.36 10.20 37.45 29.11 10.36 10.20 10.01 JECT STATIC JECT	SAMP	start stop dura TIME :01:40:00 02:10:00 30 LOG :1718:20 1719:70 1.5 FDEPTH: 652 643 BDEPTH: 652 643 Towing dir: 360° Wire Sorted: 143 Kg Total : SPECIES Nezumia sp. Merluccius paradoxus, male Allocyttus verrucosus Deania profundorum Selachophidium guentheri Raja confundens Coelorinchus fasciatus Ebinania costaecanarie Todarodes sagittatus Notacanthus sexspinis Merluccius paradoxus, female Etmopterus brachyurus Trachyrinus scabrus Hoplostethus melanopus Photichthys argenteus Galeus polli Total DATE: 7/ 2/94 start stop dura TIME :04:54:00 05:24:00 30 LOG :1736:50 1738.10 1.6 FDEPTH: 574 588 BDEPTH: 574 588 Towing dir: 345° Wire Sorted: 95 Kg Total : SPECIES Nezumia leonis Hoplostethus melanopus Selachophidium guentheri Merluccius paradoxus, female	tion (min) Purpose code (min) Purpose code (min) Purpose code (min) Speed: (min) Purpose code (min) Speed:	POSITION:Lat Long de: 3	S 2557 E 1335 / 1260.50 C SAMP 201 202 ION: 47 5 2539 E 1334 869.00 C SAMP
Deepwater fish mixture Coelorinchus fasciatus Callorhinchus capensis Sufflogobius bibarbatus Merluccius capensis, female Galeus polli Genypterus capensis Squilla acuelata calmani Merluccius capensis, male Merluccius capensis, juveniles Todaropsis eblanae Lophius vomerinus Austroglossus microlepis Total DATE: 6/ 2/94 GEP	CATCH/HOUR weight numbers 288.40 99.00 1900 58.20 20 47.60 13060 34.80 48 31.00 640 19.90 12 12.20 780 9.20 46 7.20 600 4.00 40 1.84 2 1.20 2 614.54 2 1.20 2 614.54 2 1.20 2 614.54 2 1.20 1.20 2 614.54 2 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.	OF TOT. C 46.93 16.11 9.47 7.75 5.66 5.04 3.24 1.99 1.50 0.20 100.01 JECT STATIC ION: Lat Long 1 7/HOUR: OF TOT. C 37.45 29.11 10.36 10.20 100.01 JECT STATIC ION: Lat Long 1	SAMP . 181 182 180 185 183 184 ON: 42 S 2617 E 1434 237.98 SAMP 187 186 189 188 ON: 43 S 2610 E 1421	start stop dura TIME :01:40:00 02:10:00 30 LOG :1718:20 1719:70 1.5 FDEPTH: 652 643 BDEPTH: 652 643 Towing dir: 360° Wire Sorted: 143 Kg Total : SPECIES Nezumia sp. Merluccius paradoxus, male Allocyttus verrucosus Deania profundorum Selachophidium guentheri Raja confundens Coelorinchus fasciatus Ebinania costaecanarie Todarodes sagittatus Notacanthus sexspinis Merluccius paradoxus, female Etmopterus brachyurus Trachyrinus scabrus Hoplostethus melanopus Photichthys argenteus Galeus polli Total DATE: 7/ 2/94 start stop dura TIME :04:54:00 05:24:00 30 LOG :1736:50 1738.10 1.6 FDEPTH: 574 588 Towing dir: 345° Wire Sorted: 95 Kg Total : SPECIES Nezumia leonis Hoplostethus melanopus Selachophidium guentheri Merluccius paradoxus, female Raja confundens Notacanthus sexspinis Coelorinchus fasciatus Lithodes ferox	tion (min) Purpose code (min) Purpose code (min) Purpose code (min) Speed: (min) Purpose code (min) Speed: (min)	POSITION: Lat Long de: 3 code:	S 2557 E 1335 / 1260.50 C SAMP 201 202 ION: 47 5 2539 E 1334 869.00 C SAMP
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Total

100.01

Total

869.02

start stop duration TIME :14:36:00 15:06:00 30 (mi LOG :1814.40 1815.80 1.40 FDEPTH: 249 245 BDEPTH: 249 245 Towing dir: 350* Wire out	YPE: BT No:1 POSITION		start stop duratic TIME :23:31:00 00:01:00 30 LOG :1851.20 1853.10 1.90 FDEPTH: 505 496 BDEPTH: 505 496	R TYPE: BT No:1 POSIT c(min) Purpose code: 3 Area code: :1 GearCond.code: Validity code: out:1500 m Speed: 36 km	
SPECIES	CATCH/HOUR 1 0	F TOT. C SAMP	SPECIES	weight numbers	OF TOT. C SAMP
Merluccius capensis, female Merluccius capensis, male Trachurus capensis Lophius vomerinus Coelorinchus fasciatus Merluccius capensis, juveniles Sufflogobius bibarbatus Pterothrissus belloci Squilla sp. Galeus polli Chelidonichthys capensis Todarodes sagittatus Austroglossus microlepis	Weight Hamels 1266.54 5860 883.50 3944 406.98 2509 132.56 300 120.38 3488 82.08 4870 22.58 3648 17.56 114 15.04 638 13.90 684 7.98 22 7.52 22 7.20 16	42.45 207 29.61 206 13.64 209 4.44 205 4.03 2.75 210 0.59 0.50 0.47 0.27 0.27 0.25 0.24 208	Trachyrinus scabrus Merluccius paradoxus, female Nezumia sp. Raja sp. S H A R K S Deania calcea Selachophidium guentheri Coelorinchus fasciatus Todarodes sagittatus Lithodes ferox Galeus polli Deepwater fish mixture Notacanthus sexspinis Lophius vomerinus Merluccius paradoxus, male APOGONIDAE Hoplostethus mediterraneus	592.00 1770 290.40 323 184.00 246 130.00 192 80.00 64 80.00 1055 50.00 608 48.00 160 44.00 160 24.00 508 24.00 512 20.00 512 13.30 6 4.00 64	38.57 16.19 223 10.26 7.25 4.46 4.46 4.24 2.79 2.68 2.68 2.45 1.34 1.11 0.74 0.75 0.35 0.22
			Total	1794.00	100.01
start stop duration TIME :16:38:00 17:08:00 30 (m LOG :1824.30 1825.80 1.50 FDEPTH: 297 294 BDEPTH: 297 294	TYPE: BT No:1 POSITIO in) Purpose code: 3 Area code: 1 GearCond.code: validity code: t: 900 m Speed: 30 kn* h: 2556.12 CATCH/H		DATE: 8/ 2/94 GEA start stop durati TIME :02:28:00 02:58:00 30 LOG :1868.20 1869.80 1.60 FDEPTH: 430 430 BDEPTH: 430 430 Towing dir: 360° Wire Sorted: 198 kg Total ca	R TYPE: BT No:1 POSIT on (min) Purpose code: Area code : GearCond.code: Validity code: out:1310 m Speed: 32 k	l
Trachurus capensis Lophius vomerinus Coelorinchus fasciatus Helicolenus dactylopterus Todarodes sagittatus Merluccius capensis, juveniles Galeus polli Nezumia leonis PORTUNIDAE Squilla acuelata calmani Merluccius paradoxus	12.74 242 166.10 5706 70.98 1.84 45.96 68 39.80 2592 18.66 274 12.52 274 8.42 228 7.26 432 7.00 68	3.45 211 3.25 211 1.39 0.90 0.78 214 0.37 0.24 0.16 0.14	SPECIES Galeus polli Merluccius paradoxus, female S H A R K S Selachophidium guentheri Nezumia sp. Lophius vomerinus Ebinania costaecanarie Lithodes ferox Deepwater fish mixture	CATCH/HOUR Weight numbers 247.10 3460 225.70 484 130.62 84 89.60 1344 41.86 1946 40.10 26 40.04 112 36.82 98 31.08	24 03 21 95 227 12 70 8 71 4 07 3 90 228 3 89 3 58
	TYPE: BT No:1 POSITIO	100.00 ECT STATION: 50 NN:Lat S 2515	Helicolenus dactylopterus S H A R X S Genypterus capensis Coelorinchus fasciatus Raja confundens S H A R K S Notacanthus sexspinis S H R I M P S Merluccius paradoxus, male Trachyrinus scabrus	22.40 196 17.22 28 17.20 B 16.52 322 16.24 14 14.98 28 11.34 1330 9.90 24 3.50 70	2.18 1.67 1.67 229 1.61 1.58 1.46 1.46 1.10 0.96 226
start stop duration TIME :19:00:00 19:30:00 30 (n LOG :1834.40 1836.00 1.60 (n FDEPTH: 407 416 BDEPTH: 407 416 Towing dir: Wire ou	nin) Purpose code: 3 Area code : 1 GearCond.code: Validity code: t:1200 m Speed: 3 km*		Epigonus denticulatus Total	1028.32	99.99
SPECIES Merluccius paradoxus, female Galeus polli Todarodes sagittatus Merluccius capensis, female Nezumia leonis Raja confundens Selachophidium guentheri Helicolenus dactylopterus Lophius vomerinus	CATCH/HOUR 1000 CATCH/HOUR 100	49.07 217 10.94 8.03 7.11 218 5.29 4.48 2.75 1.95 220	start stop durat: TIME :07:37:00 08:08:00 01 1 LOG :1887.00 1888.70 1.70 FDEPTH: 240 245 BDEPTH: 240 245	AR TYPE: BT No:1 POSY ion (min) Purpose code: Area code: GearCond.code: Validity code: out: 750 m. Speed: 32	<u>.</u>
Ebinania costaecanarie Coelorinchus fasciatus Genypterus capensis Lithodes ferox Merluccius paradoxus, male Notacanthus sexspinis Deania profundorum Epigonus denticulatus Etmopterus pusillus Total	29. 12 200 21. 64 200 22. 80 10 13. 80 16 12. 90 24 10. 16 358 9. 98 16 8. 66 292 2. 58 8	1.90 1.41 1.36 219 0.90 0.84 216 0.65 0.65 0.17	SPECIES Trachurus capensis Merluccius capensis, female Merluccius capensis, juveniles Merluccius capensis, male Merluccius capensis, female Sufflogobius bibarbatus Lophius vomerinus	weight numbers 2402.13 1252 347.52 2317 268.26 11423 167.67 1585 161.81 101 140.23 13535 134.52 135	9.08 235 7.01 236 4.38 234 4.23 233 3.66 230
start stop duratio TIME: 221:12:00 21:42:00 30 (LOG: 1843.70 1845.30 1.60 FDEPTH: 632 643 BDEPTH: 632 643 Towing dir: 241* Wire on	TYPE: BT No:1 POSITION min) Purpose code: 3 Area code : 1 GearCond.code: Validity code:		Galeus polli Merluccius capensis, male Squilla acuelata calmani PORTUNIDAE Coelorinchus fasciatus Austroglossus microlepis Todaropsis eblanae Total	64.03 2501 41.42 31 36.58 610 30.48 1097 12.19 244 11.42 21 9.15 366	1.67 1.08 232 0.96 0.80 0.32 0.30 231 0.24
SPECIES Merluccius paradoxus. female Deania calcea Todarodes sagittatus Nezumia leonis Raja sp. Hoplostethus mediterraneus Selachophidium guentheri		OF TOT. C SAMP 25.97 221 18.76 15.14 11.12 9.50 8.80 7.95	start stop durat TIME :10:02:00 10:30:00 28 LOG :1902.40 1903.63 1.20 FDEPTH: 202 202 BDEPTH: 202 202	AR TYPE: BT No:1 POSI ion (min) Purpose code: Area code: GearCond.code: Validity code: out: 600 m Speed: 29	
Ciphius vomerinus Galeus polli Merluccius paradoxus, male Total	32.00 5 8.00 80 4.36 4	1.24 C.31 C.17 222	SPECIES Merluccius capensis, female Merluccius capensis, male Merluccius capensis, juveniles Sufflogobius bibarbatus	CATCH/HOUR weight numbers 95.14 891 69.69 771 27.09 1106 3.69 411	48.64 239 35.63 238 13.85 240 1.89

Total

195.61

100.01

DATE: 8/ 2/94 GEAR start stop duratio	TYPE: BT No:1 POSITI	JECT STATION: 56 ON:Lat S 2435 Long E 1355	DATE: 8/ 2/94 GEAR start stop duration	TYPE: BT No:1 POSITION:	STATION: 60 Lat S 2423
TIME :11:52:00 12:22:00 30 (LOG :1910:80 1912.20 1.40 FDEPTH: 207 208 BDEPTH: 207 208	min) Purpose code: 3 Area code : 2 GearCond.code: Validity code:	-	TIME :21:22:00 21:57:00 35 (m LOG :1959.50 1961.50 2.00 FDEPTH: 359 344 BDEPTH: 359 344	in) Purpose code: 3 Area code : 2 GearCond.code: Validity code:	Long £ 1328
Towing dir: • Wire o	ut: 600 m Speed: 27 kn :ch: 2799.59 CATCH/		Towing dir: 323° Wire out Sorted: 147 Kg Total cate	t:1100 m speed: 35 kn*10 h: 365.71 CATCH/HOU	R: 626.93
•			SPECIES	CATCH/HOUR 1 OF	TOT. C SAMP
SPECIES Merluccius capensis, male	CATCH/HOUR Weight numbers 2601.20 26928	OF TOT. C SAMP 46.46 243	Coelorinchus fasciatus Helicolenus dactylopterus		23.54 13.14
Merluccius capensis, female Merluccius capensis, juveniles	2270.40 26752 362.56 13728	40.55 244 6.48 245	Centroscymnus crepidater Guentherus altivela	45.94 3 45.77 21	7.33 7.30
Trachurus capensis Merluccius capensis, female Sufflogobius bibarbatus	140.80 704 139.30 98 35.20 3872	2.51 246 2.49 242 0.63	Todarodes sagittatus Deania profundorum Lophius vomerinus	39.39 93 39.09 62 34.89 29	6.28 6.24 5.57 268
Merluccius capensis, male Lepidopus caudatus	30.40 26 12.32 160	0.54 241 0.22	Genypterus capensis Merluccius paradoxus, female	32.31 15 30.77 77	5.15 269 4.91 266
Austroglossus microlepis Lophius vomerinus	3.70 10 3.30 2	0.07 248 0.06 247	Merluccius capensis, female Nezumia leonis	29.57 14 28.70 869	4.72 267 4.58
Total	5599.18	100.01	Epigonus denticulatus Galeus polli Selachophidium guentheri	26.02 710 22.11 185 9.87 206	4.15 3.53 1.57
			Trachurus capensis Lithodes ferox	4.01 21 3.34 3	0.64 0.53
	R TYPE: BT No:1 POSIT	JECT STATION: 57 ION:Lat S 2435 Long E 1346	Notacanthus sexspinis PORTUNIDAE	2.98 31 2.16 82	0.48 0.34
start stop duration TIME :14:35:00 15:05:00 30 (LOG :1922.90 1924.40 1.50	(min) Purpose code: 3 Area code : 2	Long E 1346	Total	626.91 1	00.00
FDEPTH: 318 319 BDEPTH: 318 319	GearCond.code: Validity code:			•	
Towing dir: 350° Wire o		n*10 /HOUR: 1074.80		TYPE: BT No:1 POSITION:	STATION: 61 Lat S 2415
Sorted: 366 Kg Total cat	ten: 337.40 CA1CA,	7HOUR: 1074.80	start stop duration TIME :00:43:00 01:13:00 30 (m LOG :1982.50 1984.20 1.70	in) Purpose code: 3 Area code : 2	Long E 1320
SPECIES	weight numbers	OF TOT. C SAMP	FDEPTH: 430 430 BDEPTH: 430 430	GearCond.code: Validity code:	
Merluccius capensis, female Coelorinchus fasciatus Merluccius capensis, male	372.30 202 168.30 2952 99.60 62	34.64 249 15.66 9.27 250	Towing dir: 340° Wire ou Sorted: 169 Kg Total catc	t:1310 m Speed: 35 kn=10 h: 608.41 CATCH/HOU	
Lophius vomerinus Merluccius capensis, female	96.96 48 74.20 458	9.02 254 6.90 251	SPECIES SPECIES	,	TOT. C SAMP
Merluccius capensis, male Schedophilus huttoni	73.34 476 66.00 20	6.82 252 6.14	Merluccius paradoxus, female	weight numbers 435.48 888	35.79 271
Galeus polli Helicolenus dactylopterus	53.54 630 23.94 422 11.88 8	4.98 2.23 1.11	Centroscymnus crepidater Epigonus denticulatus Deepwater fish mixture	205.80 68 81.32 668 62.32	16.91 6.68 5.12
Todarodes sagittatus Squalus megalops Deepwater fish mixture	7.64 8 7.02	0.71 0.65	Coelorinchus fasciatus Deania profundorum	60.04 500 58.90 68	4.93
Merluccius capensis, juveniles PORTUNIDAE	6.02 360 5.22 188	0.56 253 0.49	Helicolenus dactylopterus Hoplostethus mediterraneus	53.20 158 43.00 1070	4.37 3.53
Nezumia sp. Squilla acuelata calmani Shrimps, small, non comm.	5.04 224 3.06 144 0.90 252	0.47 0.28 0.08	Nezumia sp. Pholidoteuthis boschmai Galeus polli	39.90 1320 29.94 8 29.26 288	3.28 2.46 2.40
OM IMPO / SHEET / How Solds			Etmopterus pusillus Todarod e s sagittatus	27.74 90 22.26 38	2.28 1.83
Total	1074.96	100.01	Lophius vomerinus Lithodes ferox	19.30 16 10.64 22	1.59 272 0.87
			Selachophidium guentheri Raja confundens Genypterus capensis	9.60 128 9.18 8 6.88 2	0.79 0.75 0.57 273
	R TYPE: BT No:1 POSIT	JECT STATION: 58 ION:Lat S 2434	Merluccius paradoxus, male Notacanthus sexspinis	5.70 16 2.36 46	0.47 270 0.19
start stop duration TIME :16:50:00 17:20:00 30 LOG :1935.10 1936.60 1.40		Long E 1339	Trachurus capensis Myxine capensis PORTUNIDAE	1.90 8 1.66 22 1.14 52	0.16 274 0.14 0.09
FDEPTH: 379 373 BDEPTH: 379 373	GearCond.code: Validity code:		PORTORIDAE	1.14 52	0.09
	out:1170 m Speed: 29 ki		Total	1217.52	.00.04
Towing dir: 360° Wire o	out:1170 m Speed: 29 ki	n*10 /HOUR: 1842.72	Total	1217.52	.00.04
Sorted: 352 Kg Total ca	out:1170 m Speed: 29 ki tch: 921.36 CATCH CATCH/HOUR 1 weight numbers	/HOUR: 1842.72	DATE: 9/ 2/94 GEAR	PROJECT TYPE: BT No:1 POSITION:	STATION: 62 Lat S 2410
Sorted: 352 Kg Total ca SPECIES Merluccius paradoxus, female Helicolenus dactylopterus	out:1170 m Speed: 29 km tch: 921.36 CATCH CATCH/HOUR & weight numbers 632.64 2174 238.56 3046	/HOUR: 1842.72 OF TOT. C SAMP 34.33 260 12.95	DATE: 9/ 2/94 GEAR Start stop duration TIME :06:40:00 07:10:00 30 (m	PROJECT TYPE: BT No:1 POSITION: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	STATION: 62
Sorted: 352 Kg Total ca SPECIES Merluccius paradoxus, female Helicolenus dactylopterus Merluccius capensis. female Schedophilus huttoni	Dut:1170 m Speed: 29 kr tch: 921.36 CATCH CATCH/HOUR t weight numbers 632.64 2174 238.56 3046 219.60 84 145.44 48	/HOUR: 1842.72 OF TOT. C SAMP 34.33 260 12.95 11.92 256 7.89	DATE: 9/ 2/94 GEAR start stop duration	PROJECT TYPE: BT No:1 POSITION: nin) Purpose code: 3 Area code: 2 GearCond.code:	STATION: 62 Lat S 2410
Sorted: 352 Kg Total ca SPECIES Merluccius paradoxus, female Helicolenus dactylopterus Merluccius capensis, female Schedophilus huttoni Galeus polli Lophius vomerinus Raja sp.	carch/Hour CATCH/Hour	/HOUR: 1842.72 OF TOT. C SAMP 34.33 260 12.95 11.92 256 7.89 7.66 5.80 255 2.34	DATE: 9/ 2/94 GEAR start stop duration TIME :06:40:00 07:10:00 30 (n LOG :2003.60 2005.10 1.50 FDEPTH: 296 291 BDEPTH: 296 291 Towing dir: * Wire ou	PROJECT TYPE: BT No:1 POSITION: inin) Purpose code: 2 Area code: 2 GearCond.code: Validity code: t: 900 m Speed: 31 kn*10	STATION: 62 Lat S 2410 Long E 1330
Sorted: 352 Kg Total ca SPECIES Merluccius paradoxus, female Helicolenus dactylopterus Merluccius capensis, female Schedophilus huttoni Galeus polli Lophius vomerinus Raja sp. Squalus megalops Merluccius paradoxus, female	Dut:1170 m Speed: 29 kr tch: 921.36 CATCH CATCH/HOUR t weight numbers 632.64 2174 238.56 3046 219.60 84 145.44 48 141.12 1962 106.80 60 43.20 28 42.72 10 37.40 24	/HOUR: 1842.72 OF TOT. C SAMP 34.33 260 12.95 11.92 256 7.89 7.66 5.80 255 2.34 2.32 2.03 258	DATE: 9/ 2/94 GEAR start stop duration TIME: 06:40:00 07:10:00 30 (10 00 00 00 00 00 00 00 00 00 00 00 00 0	PROJECT TYPE: BT No:1 POSITION: inn) Purpose code: 3 Area code : 2 GearCond.code: Validity code: t: 900 m Speed: 31 kn*10 ch: 310.38 CATCH/HOU	STATION: 62 Lat S 2410 Long E 1330
Sorted: 352 Kg Total ca SPECIES Merluccius paradoxus, female Helicolenus dactylopterus Merluccius capensis, female Schedophilus huttoni Galeus polli Lophius vomerinus Raja sp. Squalus megalops Merluccius paradoxus, female Deepwater fish mixture Merluccius paradoxus, male Coelorinchus fasciatus	CATCH/HOUR weight numbers 632.64 2174 238.56 219.60 84 1415.44 48 141.12 1962 106.80 60 43.20 28 42.72 10 37.40 24 29.76 220 266.02 288	/HOUR: 1842.72 OF TOT. C SAMP 34.33 260 12.95 11.92 256 7.89 7.66 5.80 255 2.34 2.32 2.03 258 1.97 1.62 259 1.41	DATE: 9/ 2/94 GEAR start stop duratior TIME:06:40:00 07:10:00 30 (n LOG:2003.60 2005.10 1.50 FDEPTH: 296 291 BDEPTH: 296 291 Towing dir: * Wire ou Sorted: 131 Kg Total catc	PROJECT TYPE: BT No:1 POSITION: in) Purpose code: 3 Area code : 2 GearCond.code: tvalidity code: t: 900 m Speed: 31 kn*10 ch: 310.38 CATCH/HOU CATCH/HOUR % OF Weight numbers 269.60 1756	STATION: 62 Lat S 2410 Long E 1330 UR: 620.76 TOT. C SAMP 43.43
Sorted: 352 Kg Total ca SPECIES Merluccius paradoxus, female Helicolenus dactylopterus Merluccius capensis, female Schedophilus huttoni Galeus polli Lophius vomerinus Raja sp. Squalus megalops Merluccius paradoxus, female Deepwater fish mixture Merluccius paradoxus, male Coelorinchus fasciatus Lithodes ferox Genypterus capensis	CATCH/HOUR weight numbers 632.64 2174 238.56 30.46 219.60 84 145.44 48 141.12 1962 106.80 43.20 28 42.72 10 37.40 24 29.76 220.60 2288 21.22 28 19.00 6	/HOUR: 1842.72 OF TOT. C SAMP 34.33 260 12.95 11.92 256 7.89 7.66 5.80 255 2.34 2.32 2.03 258 1.97 1.62 259 1.41 1.15 1.03	DATE: 9/ 2/94 GEAR start stop duratior TIME:06:40:00 07:10:00 30 (n LOG: 2003.60 2005.10 1.50 FDEPTH: 296 291 BDEPTH: 296 291 Towing dir: * Wire ou Sorted: 131 Kg Total catc SPECIES Helicolenus dactylopterus Merluccius capensis, female Galeus polli	PROJECT TYPE: BT No:1 POSITION: inn) Purpose code: 3 Area code: 2 GearCond.code: Validity code: t: 900 m Speed: 31 kn*10 CATCH/HOUR * OF Weight numbers 269.60 1756 118.80 66 55.36 688	STATION: 62 Lat S 2410 Long E 1330 JR: 620.76 TOT. C SAMP 43.43 19.14 276 8.92
Sorted: 352 Kg Total ca SPECIES Merluccius paradoxus, female Helicolenus dactylopterus Merluccius capensis, female Schedophilus huttoni Galeus polli Lophius vomerinus Raja sp. Squalus megalops Merluccius paradoxus, female Deepwater fish mixture Merluccius paradoxus, male Coelorinchus fasciatus Lithodes ferox Genypterus capensis Etmopterus capensis Etmopterus denticulatus	CATCH/HOUR weight numbers 632.64 2174 238.56 30.46 219.60 84 145.44 48 141.12 1962 106.80 43.20 28 42.72 10 37.40 24 36.28 29.76 220 26.02 288 21.22 28 19.00 6 17.48 20 16.52 614	/HOUR: 1842.72 OF TOT. C SAMP 34.33 260 12.95 11.92 256 7.89 7.66 5.80 255 2.34 2.32 2.03 258 1.97 1.62 259 1.41 1.15 1.03 0.95 0.90	DATE: 9/ 2/94 GEAR start stop duration TIME :06.40.00 07:10:00 30 (n LOG :2003.60 2005.10 1.50 FDEPTH: 296 291 BDEPTH: 296 291 Towing dir: * Wire ou Sorted: 131 Kg Total cato SPECIES Helicolenus dactylopterus Merluccius capensis, female Galeus polli Coelorinchus fasciatus Lophius vomerinus Merluccius capensis, male	PROJECT TYPE: BT No:1 POSITION: inn) Purpose code: 3 Area code: 2 GearCond.code: Validity code: t: 900 m Speed: 31 kn*10 CATCH/HOUR CATCH/HOUR Weight numbers 269.60 1756 118.80 66 55.36 688 39.84 880 33.08 32	STATION: 62 Lat S 2410 Long E 1330 JR: 620.76 TOT. C SAMP 43.43 19.14 276 8.92 6.42 5.33 279
Sorted: 352 Kg Total ca SPECIES Merluccius paradoxus, female Helicolemus dactylopterus Merluccius capensis, female Schedophilus huttoni Galeus polli Lophius vomerinus Raja sp. Squalus megalops Merluccius paradoxus, female Deepwater fish mixture Merluccius paradoxus, male Coelorinchus fasciatus Lithodes ferox Genypterus capensis Etmopterus lucifer Epigonus denticulatus Merluccius paradoxus, male Nezumia leonis Selachophidium guentheri	nut:1170 m Speed: 29 ki tch: 921.36 CATCH CATCH/HOUR weight numbers 632.64 2174 238.56 3046 219.60 84 145.44 48 141.12 1962 106.80 60 43.20 28 42.72 10 37.40 24 36.28 29.76 220 26.02 288 21.22 288 21.22 288 21.22 288 21.22 288 21.22 26.02 61 17.48 20 16.52 614 14.40 10 13.06 356 12.20 308	/HOUR: 1842.72 OF TOT. C SAMP 34.33 260 12.95 11.92 256 7.89 256 7.86 5.80 255 2.34 2.32 2.03 258 1.97 1.62 259 1.41 1.15 1.03 0.95 0.90 0.78 257 0.71 0.66	DATE: 9/ 2/94 GEAR start stop duration TIME :06.40.00 07:10:00 30 (n LOG :2003.60 2005.10 1.50 (n FDEPTH: 296 291 Towing dir: * Wire ou Sorted: 131 Kg Total catc SPECIES Helicolenus dactylopterus Merluccius capensis, female Galeus polli Coelorinchus fasciatus Lophius vomerinus Merluccius capensis, male Merluccius capensis, female Garden sagittatus Todarodes sagittatus Todarodes sagittatus	PROJECT TYPE: BT No:1 POSITION: ann) Purpose code: 3 Area code: 2 GearCond.code: Validity code: t: 900 m Speed: 31 kn*10 ch: 310.38 CATCH/HOU CATCH/HOUR % OF weight numbers 269.60 1756 118.80 66 55.36 688 39.84 880 33.08 32 2.00 68 14.80 50 13.12 16	STATION: 62 Lat S 2410 Long E 1330 UR: 620.76 TOT. C SAMP 43.43 19.14 276 8.92 6.42 5.33 279 5.15 275 2.38 280 2.11
Sorted: 352 Kg Total ca SPECIES Merluccius paradoxus, female Helicolemus dactylopterus Merluccius capensis, female Schedophilus huttoni Galeus polli Lophius vomerinus Raja sp. Squalus megalops Merluccius paradoxus, female Deepwater fish mixture Merluccius paradoxus, male Coelorinchus fasciatus Lithodes ferox Genypterus capensis Etmopterus lucifer Epigonus denticulatus Merluccius paradoxus, male Nezumia leonis Selachophidium guentheri PORTUNIDAE Beryx splendens	nut:1170 m Speed: 29 ki tch: 921.36 CATCH CATCH/HOUR veight numbers 632.64 2174 238.56 3046 219.60 84 145.44 48 141.12 1962 106.80 60 43.20 28 42.72 10 37.40 24 36.28 29.76 220 26.02 288 21.02 288 21.02 288 21.72 10 17.48 20 16.52 614 14.40 11.06 356 12.20 308 10.28 452 7.60 20	/HOUR: 1842.72 OF TOT. C SAMP 34.33 260 12.95 11.92 256 7.89 7.66 5.80 255 2.34 2.32 2.03 258 1.97 1.62 259 1.41 1.15 1.03 0.95 0.90 0.78 257 0.71 0.66 0.56	DATE: 9/ 2/94 GEAR start stop duration TIME :06:40:00 07:10:00 30 (n LOG :2003.60 2005.10 1.50 FDEPTH: 296 291 Towing dir: * Wire ou Sorted: 131 Kg Total catc SPECIES Helicolenus dactylopterus Merluccius capensis, female Galeus polli Coelorinchus fasciatus Lophius vomerinus Merluccius capensis, female Merluccius capensis, female Todarodes sagittatus Merluccius paradoxus, female Raja confundens	PROJECT TYPE: BT No:1 POSITION: anni) Purpose code: 3 Area code: 2 GearCond. code: Validity code: t: 900 m Speed: 31 kn*10 ch: 310.38 CATCH/HOU CATCH/HOUR % OF weight numbers 269.60 1756 118.80 66 55.36 688 39.84 880 33.08 32 200 68 14.80 50 13.12 16 12.30 86 10.88 16	STATION: 62 Lat S 2410 Long E 1330 UR: 620.76 TOT. C SAMP 43.43 19.14 276 8.92 6.42 5.33 279 5.15 275 2.38 280 2.11 1.98 278 1.75
SORTEG: 352 Kg Total ca SPECIES Merluccius paradoxus, female Helicolenus dactylopterus Merluccius capensis, female Schedophilus huttoni Galeus polli Lophius vomerinus Raja sp. Squalus megalops Merluccius paradoxus, female Deepwater fish mixture Merluccius paradoxus, male Coelorinchus fasciatus Lithodes ferox Genypterus capensis Etmopterus lucifer Epigonus denticulatus Merluccius paradoxus, male Nezumia leonis Selachophidium guentheri PORTUNIDAE	nut:1170 m Speed: 29 ki tch: 921.36 CATCH CATCH/HOUR numbers 632.64 2174 238.56 3046 219.60 84 145.44 48 141.12 1962 106.80 60 43.20 28 42.72 10 37.40 24 36.28 29.76 220 26.02 288 21.22 28 29.76 220 16.58 614 14.40 10 13.06 356 12.20 308 10.28 452 7.60 20 6.04 116 5.86 10	/HOUR: 1842.72 OF TOT. C SAMP 34.33 260 12.95 256 7.89 7.66 5.80 255 2.34 2.32 2.03 258 1.97 259 1.41 1.15 1.03 0.95 0.90 0.78 257 0.71 0.66 0.56 0.41 0.33 0.33	DATE: 9/ 2/94 GEAR start stop duration TIME :06.40:00 07:10:00 30 (n LOG :2003.60 2005.10 1.50 FDEPTH: 296 291 BDEPTH: 296 291 Towing dir: * Wire ou Sorted: 131 Kg Total catc SPECIES Helicolenus dactylopterus Merluccius capensis, female Galeus polli Coelorinchus fasciatus Lophius vomerinus Merluccius capensis, male Merluccius capensis, female Todarodes sagittatus Merluccius paradoxus, female Raja confundens Shrimps, small, non comm. Trachurus capensis	PROJECT TYPE: BT No:1 POSITION: anni) Purpose code: 3 Area code: 2 GearCond. code: validity code: t: 900 m Speed: 31 kn*10 ch: 310.38 CATCH/HOU CATCH/HOUR Weight numbers 269.60 1756 118.80 66 55.36 688 39.84 880 33.08 32 20.0 68 14.80 50 13.12 16 12.30 86 10.88 16 4.80 1200 3.68 16	STATION: 62 Lat S 2410 Long E 1330 UR: 620.76 TOT. C SAMP 43.43 19.14 276 8.92 6.42 5.33 279 5.15 275 2.38 280 2.11 1.98 278 1.75 0.77
Sorted: 352 Kg Total ca SPECIES Merluccius paradoxus, female Helicolemus dactylopterus Merluccius capensis, female Schedophilus huttoni Galeus polli Lophius vomerinus Raja sp. Squalus megalops Herluccius paradoxus, female Deepwater fish mixture Merluccius paradoxus, male Coelorinchus fasciatus Lithodes ferox Genypterus capensis Etmopterus lucifer Epigonus denticulatus Merluccius paradoxus, male Nezumia leonis Selachophidium guentheri PORTUNIDAE Beryx splendens Ebinania costaecanarie Todarodes sagittatus	CATCH/HOUR weight numbers 632.64 2174 238.56 3046 219.60 84 145.44 48 141.12 1962 106.80 43.20 28 42.72 31.60 29.76 220 26.02 288 21.22 288 21.72 288 21.72 288 21.74 40 10 15.52 614 14.40 10 13.06 356 12.20 308 10.28 452 7.60 20 6.04 116	/HOUR: 1842.72 OF TOT. C SAMP 34.33 260 12.95 11.92 256 7.89 7.66 5.80 255 2.34 2.32 2.03 258 1.97 1.62 259 1.41 1.15 1.03 0.95 0.70 257 0.71 0.66 0.56 0.41 0.33	DATE: 9/ 2/94 GEAR start stop duration TIME:06:40:00 07:10:00 30 (Incomplete Control of	PROJECT TYPE: BT No:1 POSITION: Ain) Purpose code: 3 Area code : 2 GearCond.code: t: 900 m Speed: 31 kn*10 CATCH/HOUR weight numbers 269.60 1756 118.80 66 55.36 688 39.84 880 33.08 32 2.00 68 14.80 50 13.12 16 12.30 86 10.88 16 12.30 86 10.88 16 10.88 16 10.88 16 10.88 16 10.88 16 10.88 16 10.88 16 10.88 16 10.88 16 10.80 20 13.04 208 13.04 208 13.04 208 13.04 208 13.04 208 13.04 208 13.04 208 13.04 208 13.04 208 13.04 208 13.04 208 13.04 208	STATION: 62 Lat S 2410 Long E 1330 JR: 620.76 TOT. C SAMP 43.43 19.14 276 8.92 6.42 5.33 279 5.15 275 2.38 280 2.11 1.98 278 1.75 0.77 0.59 0.49 0.49 0.49
Sorted: 352 Kg Total ca SPECIES Merluccius paradoxus, female Helicolenus dactylopterus Merluccius capensis, female Schedophilus huttoni Galeus polli Lophius vomerinus Raja sp. Squalus megalops Herluccius paradoxus, female Deepwater fish mixture Merluccius paradoxus, male Coelorinchus fasciatus Lithodes ferox Genypterus capensis Etmopterus lucifer Epigonus denticulatus Merluccius paradoxus, male Nezumia leonis Selachophidium guentheri PORTUNIDAE Beryx splendens Ebinania costaecanarie Todarodes sagittatus Shrimps, small, non comm. Notacanthus sexspinis	nut:1170 m Speed: 29 ki tch: 921.36 CATCH CATCH/HOUR numbers 632.64 2174 238.56 30.46 219.60 84 141.12 1962 106.80 60 43.20 28 42.72 10 37.40 24 36.28 29.76 220 26.02 288 21.22 28 19.00 6 17.48 20 16.52 614 14.40 10 13.06 356 12.20 356 11.24 452 10.28 452 7.60 20 6.04 116 5.86 10 4.52 1124 2.60 58	/HOUR: 1842.72 OF TOT. C SAMP 34.33 260 12.95 11.92 256 7.89 7.66 5.80 255 2.34 2.32 2.03 258 1.97 1.62 259 1.41 1.15 1.03 0.95 0.90 0.78 257 0.71 0.66 0.56 0.41 0.33 0.32 0.25 0.14	DATE: 9/ 2/94 gEAR start stop duration TIME :06.40.00 07:10:00 30 (10 Color 2003.60 2005.10 1.50 (10 Color 2003.60 2005.10 (10 Color 2003.60 2005.10 (10 Color 2003.60 2005.10 (10 Color 2003.60 2005.10 (10 Color 2005.60 2005.10 (10 Color 2	PROJECT TYPE: BT No:1 POSITION: Ain) Purpose code: 3 Area code : 2 GearCond.code: Validity code: t: 900 m Speed: 31 km·10 CATCH/HOUR weight numbers 269.60 1756 118.80 66 55.36 688 39.84 880 33.08 32 20.0 68 14.80 50 13.12 16 12.30 86 10.88 16 12.30 86 10.88 16 10.88 16 10.88 16 10.88 16 10.88 16 10.88 16 10.80 1200 3.68 16 3.04 208 3.04 208 3.04 208 3.04 280 2.24 80 0.96 48	STATION: 62 Lat S 2410 Long E 1330 JR: 620.76 TOT. C SAMP 43.43 19.14 276 8.92 6.42 5.33 279 5.15 275 2.38 280 2.11 1.98 278 1.75 0.59 0.49 0.49 0.49 0.49 0.49 0.39 0.36 0.15
Sorted: 352 Kg Total ca SPECIES Merluccius paradoxus, female Helicolenus dactylopterus Merluccius capensis. female Schedophilus huttoni Caleus polli Lophius vomerinus Raja sp. Squalus megalops Merluccius paradoxus, female Deepwater fish mixture Merluccius paradoxus, male Coelorinchus fasciatus Lithodes ferox Genypterus capensis Etmopterus lucifer Epigonus denticulatus Merluccius paradoxus, male Nezumia leonis Selachophidium guentheri PORTUNIDAE Beryx splendens Ebinania costaecanarie Todarodes sagittatus Shrimps, small, non comm. Notacanthus sexepinis Coelorinchus braueri	Dut:1170 m Speed: 29 ki tch: 921.36 CATCH CATCH/HOUR weight numbers 632.64 2174 238.56 3046 219.60 84 145.44 88 141.12 1962 106.80 60 43.20 28 42.72 10 37.40 24 29.76 220 26.02 288 21.22 28 29.76 220 26.02 288 21.74 8 20 26.02 288 21.72 10 37.40 24 29.76 614 14.40 10 13.06 356 12.20 308 10.28 452 7.60 20 308 10.28 452 7.60 12.20 308 10.28 452 7.60 12.20 308 10.28 452 7.60 12.20 308 10.28 452 7.60 12.20 308 10.28 452 7.60 58 10.4 552 1124 2.60 58	/HOUR: 1842.72 OF TOT. C SAMP 34.33 260 12.95 11.92 256 7.89 7.66 5.80 255 2.34 2.32 2.03 258 1.97 1.62 259 1.41 1.15 1.03 0.95 0.90 0.78 257 0.71 0.66 0.56 0.41 0.33 0.32 0.25 0.14 0.07	DATE: 9/ 2/94 GEAR start stop duration TIME :06:40:00 07:10:00 30 (m LOG :2003.60 2005.10 1.50 FDEPTH: 296 291 BDEPTH: 296 291 Towing dir: * Wire ou Sorted: 131 Kg Total catc SPECIES Helicolenus dactylopterus Merluccius capensis, female Galeus polli Coelorinchus fasciatus Lophius vomerinus Merluccius capensis, male Merluccius capensis, female Todarodes sagittatus Merluccius paradoxus, female Raja confundens Shrimps, small, non comm. Trachurus capensis Squilla acuelata calmani PORTUNIDAE Chlorophthalmus atlanticus Epigonus denticulatus	PROJECT TYPE: BT No:1 POSITION: anin) Purpose code: 3 Area code: 2 GearCond.code: Validity code: t: 900 m Speed: 31 kn*10 ch: 310.38 CATCH/HOU weight numbers 269.60 1756 55.36 688 39.84 880 33.08 32 2.00 68 14.80 50 13.12 16 12.30 86 14.80 50 13.12 16 12.30 86 14.80 50 33.08 16 33.08 16 33.08 16 33.08 16 33.04 280 3.04 280 2.40 432	STATION: 62 Lat S 2410 Long E 1330 JR: 620.76 TOT. C SAMP 43.43 19.14 276 8.92 6.42 5.33 279 5.15 275 2.38 280 2.11 1.98 278 1.75 0.77 0.59 0.49 0.49 0.49 0.39
SORTEG: 352 Kg Total ca SPECIES Merluccius paradoxus, female Helicolenus dactylopterus Merluccius capensis, female Schedophilus huttoni Galeus polli Lophius vomerinus Raja sp. Squalus megalops Merluccius paradoxus, female Deepwater fish mixture Merluccius paradoxus, male Coclorinchus fasciatus Lithodes ferox Genypterus capensis Etmopterus lucifer Epigonus denticulatus Merluccius paradoxus, male Nezumia leonis Selachophidium quentheri PORTUNIDAE Beryx splendens Ebinania costaecanarie Todarodes sagittatus Shrimps, small, non comm. Notacanthus sexsplinis Coelorinchus braueri Total	CATCH/HOUR weight numbers 632.64 2174 238.56 3046 219.66 84 145.44 48 141.12 1962 106.80 43.20 28 42.72 10 37.40 24 26.02 288 21.22 28 21.90 00 6 17.48 20 16.52 614 14.40 10 13.06 356 12.20 308 10.28 452 7.60 20 208 21.22 28 21.90 00 6 17.48 20 16.52 614 14.40 10 13.06 356 12.20 308 10.28 452 7.60 20 6.04 116 5.86 10 4.552 124 2.60 5.86 10 4.552 1124 2.60 5.86 1.20 40 1851.52	/HOUR: 1842.72 OF TOT. C SAMP 34.33 260 12.95 11.92 256 7.89 7.66 5.80 255 2.34 2.32 2.03 258 1.97 1.62 259 1.41 1.15 1.03 0.95 0.90 0.78 257 0.71 0.66 0.56 0.41 0.33 0.32 0.25 0.14 0.07 100.50	DATE: 9/ 2/94 gEAR start stop duration TIME :06.40.00 07:10:00 30 (n 1.06 :2003.60 2005.10 1.50 FDEPTH: 296 291 BDEPTH: 296 291 Towing dir: Wire ou Sorted: 131 Kg Total cate SPECIES Helicolenus dactylopterus Merluccius capensis, female Galeus polli Coelorinchus fasciatus Lophius vomerinus Merluccius capensis, female Todarodes sagittatus Merluccius capensis, female Todarodes sagittatus Merluccius capensis, female Raja confundens Shrimps, small, non comm. Trachurus capensis Squilla acuelata calmani PORTUNIDAE Chlorophthalmus atlanticus Epigonus denticulatus Nezumia leonis Merluccius paradoxus, male	PROJECT TYPE: BT No:1 POSITION: Ain) Purpose code: 3 Area code : 2 Gearcond.code: 4: 900 m Speed: 31 km*10 CATCH/HOUR veight numbers 269.60 1756 118.80 66 55.36 688 39.84 880 33.08 32 2.00 68 14.80 50 13.12 16 12.30 86 10.88 16 12.30 86 10.88 16 3.08 1200 3.68 16 4.80 1200	STATION: 62 Lat S 2410 Long E 1330 JR: 620.76 TOT. C SAMP 43.43 19.14 276 8.92 6.42 5.33 279 5.15 275 2.38 280 2.11 1.98 278 1.75 0.59 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.4
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SORTEG: 352 Kg Total ca SPECIES Merluccius paradoxus, female Helicolenus dactylopterus Merluccius capensis, female Schedophilus huttoni Galeus polli Lophius vomerinus Raja sp. Squalus megalops Merluccius paradoxus, female Deepwater fish mixture Merluccius paradoxus, male Coclorinchus fasciatus Lithodes ferox Genypterus capensis Etmopterus lucifer Epigonus denticulatus Merluccius paradoxus, male Nezumia leonis Selachophidium guentheri PORTUNIDAE Beryx splendens Ebinania costaecanarie Todarodes sagittatus Shrimps, small, non comm. Notacanthus sexsplinis Coelorinchus braueri Total DATE: 8/ 2/94 Start stop durati TIME :19:00:00 19:30:00 30 LOG :1946.00 1947.80 1.80 FDEPTH: 405 389	CATCH/HOUR weight numbers 632.64 2174 238.56 3046 219.60 84 145.44 48 141.12 1962 106.80 43.20 28 42.72 30.74 20 37.40 24 36.28 29.76 220 26.02 288 21.22 28 21.90 6.60 17.48 20 16.52 614 14.40 10 13.06 356 12.20 308 10.28 452 7.60 20 6.04 116.52 614 14.40 10 13.06 356 12.20 308 10.28 452 7.60 20 6.04 116 5.86 10 2.06 5.86 10 4.52 1124 2.60 5.81 1.20 40 1851.52	/HOUR: 1842.72 OF TOT. C SAMP 34.33 260 12.95 11.92 256 7.89 7.66 5.80 255 2.34 2.32 2.03 258 1.97 1.62 259 1.41 1.15 1.03 0.95 0.96 0.78 257 0.71 0.66 0.56 0.41 0.33 0.32 0.25 0.14 0.07 100.50 JECT STATION: 59 ION:Lat S 2437 Long E 1332	DATE: 9/ 2/94 GEAR start stop duration TIME :06:40:00 07:10:00 30 (m LOG :2003.60 2005.10 1.50 FDEPTH: 296 291 BDEPTH: 296 291 Towing dir: * Wire ou Sorted: 131 Kg Total catc SPECIES Helicolenus dactylopterus Merluccius capensis, female Galeus polli coelorinchus fasciatus Lophius vomerinus Merluccius capensis, male Merluccius capensis, male Merluccius capensis, female Todarodes sagittatus Herluccius paradoxus, female Raja confundens Shrimps, small, non comm. Trachurus capensis Squilla acuelata calmani PORTUNIDAE Chlorophthalmus atlanticus Epigonus denticulatus Nezumia leonis Merluccius paradoxus, male Total DATE: 9/ 2/94 start stop duration	TYPE: BT No:1 PROJECT TYPE: BT No:1 POSITION: 1	STATION: 62 Lat S 2410 Long E 1330 JR: 620.76 TOT. C SAMP 43.43 19.14 276 8.92 6.42 5.33 279 5.15 275 2.38 280 2.11 1.98 278 1.75 0.77 0.59 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.4
SORTEC! 352 Kg Total ca SPECIES Merluccius paradoxus, female Helicolemus dactylopterus Merluccius capensis. female Schedophilus huttoni Galeus polli Lophius vomerinus Raja sp. Squalus megalops Merluccius paradoxus, female Deepwater fish mixture Merluccius paradoxus, male Coelorinchus fasciatus Lithodes ferox Genypterus capensis Etmopterus lucifer Epigonus denticulatus Merluccius paradoxus, male Nezumia leonis Selachophidium guentheri PORTUNIDAE Beryx splendens Ebinania costaecanarie Todarodes sagittatus Shrimps, small, non comm. Notacanthus sexspinis Coelorinchus braueri Total DATE: 8/ 2/94 GEA start stop durati TIME :19:00:00 19:30:00 30 LOG :1946.00 1947.80 1.80 FDEETH: 405 389 BDEPTH: 405 389 Towing dir: Wire delayed.	CATCH/HOUR weight numbers 632.64 2174 238.56 3046 219.60 84 145.44 48 141.12 1962 106.80 60 43.20 28 42.72 10 37.40 24 36.28 29.76 220 26.02 288 19.00 6 17.48 20 16.52 614 14.40 10 13.06 356 12.20 80 16.52 614 14.40 10 13.06 356 12.20 308 10.28 452 7.66 20 20 16.52 614 14.40 10 13.06 356 12.20 308 10.28 452 7.66 20 16.52 614 14.40 10 13.06 356 12.20 308 10.28 452 7.66 20 16.52 614 14.40 10 13.06 356 12.20 308 10.28 452 7.66 20 16.52 614 15.52 614 15.52 615 15.52 616 5.86 10 4.552 1124 2.66 58 1.20 40 7.55 616 10 4.552 1124 2.60 58 1.20 40 7.55 616 10 4.552 6	7HOUR: 1842.72 OF TOT. C SAMP 34.33 260 12.95 11.92 256 7.89 7.66 5.80 255 2.34 2.32 2.03 258 1.97 1.62 259 1.41 1.15 1.03 0.95 0.90 0.78 257 0.71 0.66 0.56 0.41 0.33 0.32 0.25 0.14 0.07 100.50 JECT STATION: 59 10N:Lat S 2437 Long E 1332	DATE: 9/ 2/94 gtart stop duration TIME :06:40:00 07:10:00 30 (n LOG :2003.60 2005.10 1.50 (n FDEPTH: 296 291 Towing dir: * Wire ou Sorted: 131 Kg Total catc SPECIES Helicolenus dactylopterus Merluccius capensis, female Galeus polli Coelorinchus fasciatus Lophius vomerinus Merluccius capensis, female Merluccius capensis, female Todarodes sagittatus Merluccius paradoxus, female Raja confundens Shrimps, small, non comm. Trachurus capensis Squilla acuelata calmani PORTUNIDAE Chlorophthalmus atlanticus Epigonus denticulatus Nezumia leonis Merluccius paradoxus, male Total DATE: 9/ 2/94 Start stop duration TIME: 08:37:00 09:07:00 30 (n LOG :2013.20 2014,70 1.50 FDEPTH: 289 284	PROJECT TYPE: BT No:1 POSITION: Area code: 2 GearCond.code: Validity code: t: 900 m Speed: 31 kn*10 CATCH/HOUR % OF Weight numbers 269.60 1756 118.80 66 55.36 688 33.08 32 2.00 68 14.80 50 13.12 16 12.30 86 14.80 50 13.12 16 12.30 86 10.88 16 4.80 1200 3.68 16 3.04 208 3	STATION: 62 Lat S 2410 Long E 1330 JR: 620.76 TOT. C SAMP 43.43 19.14 276 8.92 6.42 5.33 279 5.15 275 2.38 280 2.11 1.98 278 1.75 0.77 0.59 0.49 0.39 0.39 0.36 0.15 0.11 277 99.96
SORTEG: 352 Kg Total ca SPECIES Merluccius paradoxus, female Helicolemus dactylopterus Merluccius capensis, female Schedophilus huttoni Galeus polli Lophius vomerinus Raja sp. Squalus megalops Merluccius paradoxus, female Deepwater fish mixture Merluccius paradoxus, male Coelorinchus fasciatus Lithodes ferox Genypterus capensis Etmopterus lucifer Epigonus denticulatus Merluccius paradoxus, male Nezumia leonis Selachophidium guentheri PORTUNIDAE Beryx splendens Ebinania costaecanarie Todarodes sagittatus Shrimps, small, non comm. Notacanthus sexspinis Coelorinchus braueri Total DATE: 8/ 2/94 Start stop durati TIME :19:00:00 19:30:00 30 LOG :1946.00 1947.80 1.80 FDEETH: 405 389 BDEPTH: 405 389	CATCH/HOUR weight numbers 632.64 2174 238.56 3046 219.60 84 145.44 48 141.12 1962 106.80 60 43.20 28 42.72 10 37.40 24 36.28 29.76 220 26.02 288 19.00 6 17.48 20 16.52 614 14.40 10 13.06 356 12.20 80 16.52 614 14.40 10 13.06 356 12.20 308 10.28 452 7.66 20 20 16.52 614 14.40 10 13.06 356 12.20 308 10.28 452 7.66 20 16.52 614 14.40 10 13.06 356 12.20 308 10.28 452 7.66 20 16.52 614 14.40 10 13.06 356 12.20 308 10.28 452 7.66 20 16.52 614 15.52 614 15.52 615 15.52 616 5.86 10 4.552 1124 2.66 58 1.20 40 7.55 616 10 4.552 1124 2.60 58 1.20 40 7.55 616 10 4.552 6	7HOUR: 1842.72 OF TOT. C SAMP 34.33 260 12.95 11.92 256 7.86 5.80 255 2.34 2.32 2.03 258 1.97 1.62 259 1.41 1.15 1.03 0.95 0.90 0.78 257 0.71 0.66 0.56 0.41 0.33 0.32 0.25 0.14 0.07 100.50 JECT STATION: 59 ION:Lat S 2437 Long E 1332	DATE: 9/ 2/94 Start stop duration TIME: 06:40:00 07:10:00 30 (n LOG: 2003.60 2005.10 1.50 n FDEPTH: 296 291 BDEPTH: 296 291 Towing dir: * Wire ou Sorted: 131 kg Total cato SPECIES Helicolenus dactylopterus Merluccius capensis, female Galeus polli Coelorinchus fasciatus Lophius vomerinus Merluccius capensis, male Merluccius capensis, male Merluccius capensis, male Merluccius capensis, smale Merluccius capensis, smale Merluccius capensis, smale Merluccius capensis, smale Codarodes sagittatus Merluccius paradoxus, female Raja confundens Shrimps, small, non comm. Trachurus capensis Squilla acuelata calmani PORTUNIDAE Chlorophthalmus atlanticus Epigonus denticulatus Nezumia leonis Merlucclus paradoxus, male Total DATE: 9/ 2/94 Start stop duratior TIME: 08:37:00 09:07:00 30 (n LOG: 2013.20 2014.70 1.50 FDEPTH: 289 284 BDEPTH: 289 284	PROJECT TYPE: BT No:1 POSITION: anin) Purpose code: 3 Area code : 2 GearCond.code: Validity code: t: 900 m Speed: 31 kn*10 ch: 310.38 CATCH/HOU seight numbers 269.60 1756 688 33.08 32 32.00 688 33.08 32 32.00 688 14.80 50 13.12 16 12.30 86 10.88 16 4.80 1200 3.68 16 3.04 280 3.04 280 2.40 432 2.40 432 2.24 80 0.96 48 0.70 4	STATION: 62 Lat S 2410 Long E 1330 JR: 620.76 TOT. C SAMP 43.43 19.14 276 8.92 6.42 5.33 279 5.15 275 2.38 280 2.11 1.75 0.77 0.59 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.4
SORTEC! 352 Kg Total ca SPECIES Merluccius paradoxus, female Helicolemus dactylopterus Merluccius capensis. female Schedophilus huttoni Galeus polli Lophius vomerinus Raja sp. Squalus megalops Merluccius paradoxus, female Deepwater fish mixture Merluccius paradoxus, male Coelorinchus fasciatus Lithodes ferox Genypterus capensis Etmopterus lucifer Epigonus denticulatus Merluccius paradoxus, male Nezumia leonis Selachophidium guentheri PORTUNIDAE Beryx splendens Ebinania costaecanarie Todarodes sagittatus Shrimps, small, non comm. Notacanthus sexspinis Coelorinchus braueri Total DATE: 8/ 2/94 GEA start stop durati TIME :19:00:00 19:30:00 30 LOG :1946.00 1947.80 1.80 FDEETH: 405 389 BDEPTH: 405 389 Towing dir: Wire delayed.	CATCH/HOUR weight numbers 632.64 2174 238.56 3046 219.60 84 145.44 48 141.12 1962 106.80 60 43.20 28 42.72 10 37.40 24 36.28 29.76 220 26.02 288 19.00 6 17.48 20 16.52 614 14.40 10 13.06 356 12.20 38 452 7.66 20 26.02 288 19.00 6 17.48 20 16.52 614 14.40 10 13.06 356 12.20 308 10.28 452 7.66 20 20 6.04 116 5.86 12.20 308 10.28 452 7.66 20 20 6.04 116 5.86 10.28 452 7.66 20 6.04 116 5.86 10.28 452 7.66 20 6.04 116 5.86 10.28 452 7.66 20 6.04 116 5.86 10.28 452 7.66 20 6.04 116 5.86 10.28 452 7.66 20 6.04 116 5.86 10 4.52 1124 2.66 58 1.20 40 1851.52	7HOUR: 1842.72 OF TOT. C SAMP 34.33 260 12.95 11.92 256 7.89 7.66 5.80 255 2.34 2.32 2.03 258 1.97 1.62 259 1.41 1.15 1.03 0.95 0.90 0.78 257 0.71 0.66 0.56 0.41 0.33 0.32 0.25 0.14 0.07 100.50 JECT STATION: 59 10N:Lat S 2437 Long E 1332	DATE: 9/ 2/94 Start stop duration TIME: 06:40:00 07:10:00 30 (n LOG: 2003.60 2005.10 1.50 n FDEPTH: 296 291 BDEPTH: 296 291 Towing dir: * Wire ou Sorted: 131 kg Total cato SPECIES Helicolenus dactylopterus Merluccius capensis, female Galeus polli Coelorinchus fasciatus Lophius vomerinus Merluccius capensis, male Merluccius capensis, male Merluccius capensis, male Merluccius capensis, smale Merluccius capensis, smale Merluccius capensis, smale Merluccius capensis, smale Codarodes sagittatus Merluccius paradoxus, female Raja confundens Shrimps, small, non comm. Trachurus capensis Squilla acuelata calmani PORTUNIDAE Chlorophthalmus atlanticus Epigonus denticulatus Nezumia leonis Merlucclus paradoxus, male Total DATE: 9/ 2/94 Start stop duratior TIME: 08:37:00 09:07:00 30 (n LOG: 2013.20 2014.70 1.50 FDEPTH: 289 284 BDEPTH: 289 284	PROJECT TYPE: BT No:1 POSITION: Ain) Purpose code: 3 Area code : 2 Gearcond.code: 4: 900 m Speed: 31 kn*10 CATCH/HOUR 1 OF 1756 118.80 66 55.36 688 39.84 880 33.08 32 2.00 68 14.80 50 13.12 16 12.30 86 14.80 1200 3.68 16 12.30 86 10.88 16 3.04 280 3.04	STATION: 62 Lat S 2410 Long E 1330 JR: 620.76 TOT. C SAMP 43.43 19.14 276 8.92 6.42 5.33 279 5.15 275 2.38 280 2.11 0.77 0.59 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.4
Sorted: 352 Kg Total ca SPECIES Merluccius paradoxus, female Helicolemus dactylopterus Merluccius capensis, female Schedophilus huttoni Galeus polli Lophius vomerinus Raja sp. Squalus megalops Merluccius paradoxus, female Deepwater fish mixture Merluccius paradoxus, male Coelorinchus fasciatus Lithodes ferox Genypterus capensis Etmopterus lucifer Epigonus denticulatus Merluccius paradoxus, male Nezumia leonis Selachophidium guentheri PORTUNIDAE Beryx splendens Ebinania costaecanarie Todarodes sagittatus Shrimps, small, non comm. Notacanthus sexspinis Coelorinchus braueri Total DATE: 8/ 2/94 Start stop durati TIME :19:00:00 19:30:00 30 LOG :1946.00 1947.80 1.80 FOEPTH: 405 389 BDEPTH: 405 389 BDEPTH: 405 389 Towing dir: Wire: Sorted: 120 Kg Total ca	CATCH/HOUR weight numbers validity code: 29 kitch: 921.36 CATCH CATCH/HOUR weight numbers validity code: 238.56 3046 2174 238.56 3046 219.60 84 141.12 1962 106.80 43.20 28 42.72 10.37.40 24 36.28 29.76 220 26.02 288 21.22 28 19.00 6 17.48 20 16.52 614 14.40 10 13.06 366 12.20 308 10.28 452 7.60 20 6.04 116 5.86 10 2.06 10.28 452 7.60 20 6.04 116 5.86 10 3.06 36 10 28 452 7.60 20 6.04 116 5.86 10 3.06 36 10 28 452 7.60 20 6.04 116 5.86 10 4.52 1124 2.60 58 1.20 40 1851.52 PROSITOR (min) Purpose code: 3 Area code code: 2 GearCond.code: Validity code: Validity code: Validity code: 35 ktch: 876.05 CATCH/HOUR weight numbers 1275.00 2780 84.00 840	/HOUR: 1842.72 OF TOT. C SAMP 34.33 260 12.95 11.92 256 7.86 5.80 255 2.34 2.32 2.03 258 1.97 1.62 259 1.41 1.15 1.03 0.95 0.90 0.78 257 0.71 0.66 0.56 0.41 0.33 0.32 0.25 0.14 0.07 100.50 JECT STATION: 59 ION:Lat S 2437 Long E 1332 DAMP 72.77 262 4.79	DATE: 9/ 2/94 GEAR start stop duration TIME: 06:40:00 07:10:00 30 (m LoG: 2003.60 2005.10 1.50 FDEPTH: 296 291 EDEPTH: 296 291 Towing dir: * Wire ou Sorted: 131 kg Total cato SPECIES Helicolenus dactylopterus Merluccius capensis, female Galeus polli Coelorinchus fasciatus Lophius vomerinus Merluccius capensis, male Merluccius capensis, male Merluccius capensis, male Merluccius capensis, semale Todarodes sagittatus Merluccius paradoxus, female Raja confundens Shrimps, small, non comm. Trachurus capensis squilla acuelata calmani PORTUNIDAE Chlorophthalmus atlanticus Epigonus denticulatus Nezumia leonis Merluccius paradoxus, male DATE: 9/ 2/94 GEAR STATE STAT	PROJECT TYPE: BT No:1 POSITION: Ain) Purpose code: 3 Area code 2 Gearcond.code: 2 Gearcond.code: 3 Area code 12 Formal Position: 4 Area code 2 Gearcond.code: 4 Book and a code: 4 Book and a code: 5 CATCH/HOUR 1 CA	STATION: 62 Lat S 2410 Long E 1330 JR: 620.76 TOT. C SAMP 43.43 19.14 276 8.92 6.42 5.33 279 5.15 275 2.38 280 2.11 1.98 278 1.75 0.59 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.4
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Sorted: 352 Kg Total ca SPECIES Merluccius paradoxus, female Helicolenus dactylopterus Merluccius capensis. female Schedophilus huttori Caleus polli Lophius vomerinus Raja sp. Squalus megalops Merluccius paradoxus, female Deepwater fish mixture Merluccius paradoxus, male Coclorinchus fasciatus Lithodes ferox Genypterus capensis Etmopterus lucifer Epigonus denticulatus Merluccius paradoxus, male Nezumia leonis Selachophidium guentheri PORTUNIDAE Beryx splendens Ebinania costaecanarie Todarodes sagittatus Shrimps, small, non comm. Notacanthus sexspinis Coclorinchus braueri Total DATE: 8/ 2/94 GEA start stop durati TIME :19:00:00 19:30:00 30 LOG :1946.00 1947.80 1.80 FDEPTH: 405 389 Towing dir: Wire Sorted: 120 Kg Total ca SPECIES Merluccius paradoxus, female Helicolenus dactylopterus Nezumia leonis Selachophidium guentheri Galeus polli Merluccius paradoxus, male Coclorinchus fasciatus Lophius vomerinus Lithodes ferox Merluccius capensis Beryx splendens	CATCH/HOUR weight numbers code: 29 kitch: 921.36 CATCH CATCH/HOUR weight numbers code: 30.46 217.4 238.56 30.46 219.60 84 141.12 1962 106.80 43.20 28 42.72 10 37.40 24 36.28 29.76 220.26.02 288 21.22 288 21.22 288 21.22 288 21.22 28 19.00 6 17.48 20 16.52 614 14.40 10 13.06 356 12.20 308 10.28 452 7.60 20 6.04 116.52 614 14.40 10 13.06 356 12.20 308 10.28 452 7.60 20 6.04 116 5.86 10 4.52 1124 2.60 5.86 10 4.52 1124 2.60 58 1.20 40 1851.52 R TYPE: BT No:1 POSTT ON (min) Purpose code: 3 Area code 2 2 Generond.code validity code: validity code: validity code: validity code: 35 ktch: 876.05 CATCH Weight numbers 1275.00 290 84.00 840 840 262.80 1460 56.80 880 36.40 26 30.40 46 27.70 8 80 30.40 46 27.70 8 80 30.40 46 27.70 8 22.60 40 11.80 6 7.60 20 11.80 6 67.60 20 11.80 6 67.60 20 11.80 6 67.60 20 11.80 6 67.60 20 100 38.60 880 31.40 46 27.70 8 22.60 40 11.80 6 67.60 20 100 38.60 880 31.80 40 26 30.40 46 27.70 8 22.60 40 11.80 6 7.60 20 100 38.60 880 31.80 60 880 31.80 40 46 27.70 8 22.60 40 11.80 6 67.60 20 100 38.60 880 31.80 40 260 30.40 46 27.70 8 22.60 40 11.80 6 7.60 20 100 38.60 880 31.80 40 260 30.40 46 27.70 8 22.60 40 11.80 6 7.60 20 100 38.60 880 31.80 40 260 30.40 46 27.70 8 22.60 40 11.80 6 7.60 20 100 38.60 880 31.80 40 260 30.40 46 27.70 8 22.60 40 11.80 6 7.60 20 100 38.60 880 31.80 40 260 30.40 46 27.70 8 22.60 40 11.80 6 7.60 20 100 38.60 880 31.80 40 260 30.40 46 27.70 8 22.60 40 11.80 6 7.60 20 100 32.60 40 11.80 6 7.60 20 100 32.60 40 11.80 6 7.60 20 100 32.60 40 11.80 6 7.60 20 100 32.60 40 11.80 6 7.60 20 100 32.60 30 100 32.60 30 100 32.60 30 100 32.60 40 11.80 6 7.60 20 100 32.60 40 11.80 6 7.60 20 100 32.60 30 100 32.60 40 20 100 32.60 40 11.80 6 7.60 20 100 32.60 30	/HOUR: 1842.72 OF TOT. C SAMP 34.33 260 12.95 11.92 256 7.89 7.66 5.80 255 2.34 2.32 2.03 258 1.97 1.62 259 1.41 1.15 1.03 0.95 0.90 0.78 257 0.71 0.66 0.56 0.41 0.33 0.32 0.25 0.14 0.07 100.50 JECT STATION: 59 ION:Lat S 2437 Long E 1332 /HOUR: 1752.10 OF TOT. C SAMP 72.77 262 4.79 3.58 3.24 2.64 2.40 261 2.20 2.08 264 1.74 1.58 263 1.29 0.67 265	DATE: 9/ 2/94 start stop duration TIME :06:40:00 07:10:00 30 (n LOG :2003.60 2005.10 1.50 FDEPTH: 296 291 BDEPTH: 296 291 Towing dir: * Wire ou Sorted: 131 Kg Total catc SPECIES Helicolenus dactylopterus Merluccius capensis, female Galeus polli Coelorinchus fasciatus Lophius vomerinus Merluccius capensis, male Merluccius capensis, male Merluccius capensis, female Raja confundens Shrimps, small. non comm. Trachurus capensis Squilla acuelata calmani PORTUNIDAE Chlorophthalmus atlanticus Epigonus denticulatus Nezumia leonis Merluccius paradoxus, male Total DATE: 9/ 2/94 GEAR Start stop duration TIME :08:37:00 09:07:00 30 (n LOG :2013.20 2014.70 1.50 FDEPTH: 289 284 BDEPTH: 289 284 BDEPTH: 289 284 BOEPTH: 289 284 BOEPTH: 289 COLOR SORTES Merluccius capensis, female Galeus polli Helicolenus dactylopterus Coelorinchus fasciatus Lophius vomerinus Merluccius capensis, female Merluccius capensis, male Merluccius capensis, female Squalus megalops PORTUNIDAE Chlorophthalmus atlanticus Lepidopus capensis, female Squalus megalops PORTUNIDAE Chlorophthalmus atlanticus Lepidopus capensis, female	PROJECT TYPE: BT No:1 POSITION: ann) Purpose code: 3 Area code: 2 GearCond.code: validity code: t: 900 m Speed: 31 kn=10 ch: 310.38 CATCH/HOU weight numbers 269.60 1756 51.80 66 55.36 688 39.84 880 33.08 32 2.00 68 14.80 50 12.30 86 10.88 16 12.30 86 10.88 16 10.88 16 10.88 16 10.88 16 10.88 16 10.09 10 10.0	STATION: 62 Lat S 2410 Long E 1330 RE: 620.76 TOT. C SAMP 43.43 19.14 276 8.92 5.33 279 5.15 275 2.38 280 2.11 1.98 278 1.75 0.77 0.79 0.49 0.39 0.39 0.36 0.15 0.11 277 99.96 C STATION: 63 Lat S 2410 Long E 1336 DR: 708.52 TOT. C SAMP 30.32 282 19.27 16.60 9.29 8.44 284 7.33 281 1.98 0.55 0.55 0.55 0.55
Sorted: 352 Kg Total ca SPECIES Merluccius paradoxus, female Helicolemus dactylopterus Merluccius capensis. female Schedophilus huttoni Galeus polli Lophius vomerinus Raja sp. Squalus megalops Merluccius paradoxus, female Deepwater fish mixture Merluccius paradoxus, male Coelorinchus fasciatus Lithodes ferox Genypterus capensis Etmopterus lucifer Epigonus denticulatus Merluccius paradoxus, male Nezumia leonis Selachophidium guentheri PORTUNIDAE Beryx splendens Ebinania costaecanarie Todarodes sagittatus Shrimps, small, non comm. Notacanthus sexspinis Coelorinchus braueri Total DATE: 8/ 2/94 GA	CATCH/HOUR weight numbers 632.64 2174 238.56 3046 219.60 84 145.44 48 141.12 1962 106.80 43.20 28 42.72 10 37.40 24 36.28 19.00 16.52 614 140 10 13.06 16.52 614 140 10 13.06 16.52 614 140 10 13.06 16.52 614 140 10 13.06 16.52 614 140 10 13.06 16.52 614 140 10 13.06 16.52 614 140 10 13.06 16.52 614 16.52 614 16.52 615 12.20 308 10.28 7.60 20 6.04 11.80 6 10 20 40 12.20 30 8 12.20 30 8 12.20 30 8 12.20 30 8 12.20 30 8 12.20 30 8 12.20 30 8 12.20 30 8 12.20 30 8 12.20 30 8 12.20 40 40 45.20 12.20 40 40 45.20 50 40 40 46.20 50 80 80 80 46.20 500 42.00 100 38.60 880 36.40 26.30 40 66.40 20 20.00 120 20.00 120 20.00 12	/HOUR: 1842.72 OF TOT. C SAMP 34.33 260 12.95 11.92 256 7.89 7.66 5.80 255 2.34 2.32 2.03 258 1.97 1.62 259 1.41 1.15 1.03 0.95 0.90 0.78 257 0.71 0.66 0.56 0.41 0.33 0.32 0.25 0.14 0.07 100.50 JECT STATION: 59 10N:Lat S 2437 Long E 1332 m*10 OF TOT. C SAMP 72.77 262 4.79 3.58 3.24 2.64 2.40 261 2.20 2.08 264 1.74 2.67 2.67 2.67 2.67 2.67 2.67 2.67 2.67	DATE: 9/ 2/94 start stop duration TIME :06:40:00 07:10:00 30 (n LOG :2003.60 2005.10 1.50 (n FDEPTH: 296 291	PROJECT TYPE: BT No:1 POSITION: a Area code: 2 GearCond. code: Validity code: t: 900 m Speed: 31 kn*10 CATCH/HOUR 1 OF 13.0 8.0 6.0 1756 118.80 66 55.36 688 32.00 68 14.80 50 13.12 16 12.30 86 14.80 50 13.12 16 12.30 86 14.80 1200 3.68 16 4.80 1200 3.68 16 4.80 1200 3.68 16 4.80 1200 3.68 16 4.80 1200 3.68 16 4.80 1200 3.68 16 4.80 1200 3.68 16 3.04 208 3.04 208 3.04 208 3.04 208 3.04 208 3.04 208 3.04 208 3.04 208 3.04 208 3.04 208 3.04 208 3.04 208 3.04 208 3.04 208 3.04 208 3.04 208 3.04 208 3.04 208 3.05 208 3.06 208 3.07 208 3.08 16 3.08 16 3.09 208 3.00 208 3.00 30 48 3.00 30 86 3.00 30 86 3.00 30 86 3.00 30 30 30 30 30 30 30 30 30 30 30 30 3	STATION: 62 Lat S 2410 Long E 1330 JR: 620.76 TOT. C SAMP 43.43 19.14 276 8.92 6.42 5.33 279 5.15 275 2.38 280 2.11 1.98 278 1.75 0.77 0.59 0.49 0.39 0.39 0.36 0.15 0.11 277 99.96 JR: 708.52 STATION: 63 Lat S 2410 Long E 1336 JR: 708.52 TOT. C SAMP 30.32 19.27 16.60 JR: 708.52
Sorted: 352 Kg Total ca SPECIES Merluccius paradoxus, female Helicolenus dactylopterus Merluccius capensis. female Schedophilus huttori Caleus polli Lophius vomerinus Raja sp. Squalus megalops Merluccius paradoxus, female Deepwater fish mixture Merluccius paradoxus, male Coclorinchus fasciatus Lithodes ferox Genypterus capensis Etmopterus lucifer Epigonus denticulatus Merluccius paradoxus, male Nezumia leonis Selachophidium guentheri PORTUNIDAE Beryx splendens Ebinania costaecanarie Todarodes sagittatus Shrimps, small, non comm. Notacanthus sexspinis Coelorinchus braueri Total DATE: 8/ 2/94	CATCH/HOUR weight numbers case case case case case case case cas	/HOUR: 1842.72 OF TOT. C SAMP 34.33 260 12.95 11.92 256 7.89 7.66 5.80 255 2.34 2.32 2.03 258 1.97 1.62 259 1.161 259 1.151 03 0.95 0.90 0.78 257 0.71 0.66 0.56 0.41 0.33 0.32 0.25 0.14 0.07 100.50 JECT STATION: 59 ION:Lat S 2437 Long E 1332 /HOUR: 1752.10 OF TOT. C SAMP 72.77 262 4.79 3.58 3.24 2.64 2.40 261 2.20 2.08 264 1.74 1.58 263 1.29 0.67 265 0.43 0.37 0.11	DATE: 9/ 2/94 start stop duration TIME :06:40:00 07:10:00 30 (n LOG :2003.60 2005.10 1.50 FDEPTH: 296 291 BDEPTH: 296 291 Towing dir: * Wire ou Sorted: 131 Kg Total catc SPECIES Helicolenus dactylopterus Merluccius capensis, female Galeus polli Coelorinchus fasciatus Lophius vomerinus Merluccius capensis, male Merluccius capensis, male Merluccius capensis, female Raja confundens Shrimps, small, non comm. Trachurus capensis Squilla acuelata calmani PORTUNIDAE Chlorophthalmus atlanticus Epigonus denticulatus Nezumia leonis Merluccius paradoxus, male Total DATE: 9/ 2/94 GEAR start stop duration TIME :08:37:00 09:07:00 30 (n LOG :2013.20 2014.70 1.50 FDEPTH: 289 284 BDEPTH: 289 284 Towing dir: * Wire ou Sorted: 203 Kg Total catc SPECIES Merluccius capensis, female Galeus polli Helicolenus dactylopterus Coelorinchus fasciatus Lophius vomerinus Merluccius capensis, male Merluccius capensis, male Merluccius capensis, female Squalus megalops PORTUNIDAE Chlorophthalmus atlanticus Lepidopus caudatus Merluccius capensis, juveniles Squilla acuelata calmani	PROJECT TYPE: BT No:1 POSITION: a Area code : 2 GearCond. Code: Validity code: t: 900 m Speed: 31 kn*10 CATCH/HOUR 1 OF 13.0 m Speed: 31 kn*20 CATCH/HOUR 1 OF 13.0 m Speed: 32 kn*20 CATCH/HOUR 1 OF 13.0	STATION: 62 Lat S 2410 Long E 1330 R: 620.76 TOT. C SAMP 43.43 19.14 276 8.92 5.33 279 5.15 275 2.38 280 2.11 1.98 278 1.75 0.77 0.77 0.79 0.49 0.39 0.36 0.15 0.11 277 99.96 STATION: 63 Lat S 2410 Long E 1336 DR: 708.52 TOT. C SAMP 30.32 282 19.27 16.60 9.29 8.44 284 7.33 281 16.60 9.29 8.44 284 7.33 281 16.60 9.29 8.44 284 7.33 281 1.98 0.55 0.55 0.55 0.55 0.49 0.47 285

DATE: 9/ 2/94 GEAR TYPE: BT No:1 PROJECT STATION: 64 start stop duration Long E 1305 TIME :10:41:00 11:11:00 30 (min) Purpose code: 3 LOG :2023.30 2034.80 1.50 Area code: 2 FDEPTH: 263 259 GearCond.code: BDEPTH: 263 259 Validity code: Towing dir: * Wire out: 850 m Speed: 30 kn*10 Sorted: 288 Kg Total catch: 468.34 CATCH/HOUR: 936.68	DATE: 10/ 2/94 GEAR TYPE: BT No: 1 PROJECT STATION: 69 start stop duration. Long E 1349 TIME: 06:50:00 07:20:00 30 (min) Purpose code: 3 LOG: 2:107.50 2:109.00 1.50 Area code: 2 FDEPTH: 154 156 GearCond.code: BDEPTH: 154 156 Validity code: Towing dir: * Wire out: 450 m Speed: 30 km*10 Sorted: 23 kg Total catch: 95.96 CATCH/HOUR: 191.92
Merluccius capensis, female Very 100 V	SPECIES CATCH/HOUR 1 OF TOT. C SAMP
Chlorophthalmus atlanticus 0.60 50 0.06 Total 935.52 99.88	DATE:10/ 2/94 GEAR TYPE: BT No:1 PROJECT STATION: 70 start stop duration TIME:19:12:00 09:42:00 30 (min) Purpose code: 3 LOG:2123:90 2125:60 1.70 Area code: 2 FDEPTH: 195 191 GearCond.code: BDEPTH: 195 191 Validity code: Towing dir: * Wire out: 600 m Speed: 33 kn*10
DATE: 9/ 2/94 GEAR TYPE: BT No:1 POSITION: 65 start stop duration Long E 1354 TIME :12:48:00 13:18:00 30 (min) Purpose code: 3 LOG :2035.10 2036.40 1.30 Area code: 7 TDEPTH: 233 230 GearCond.code: 7 TOWING dir: 360 Wire out: 711 m Speed: 28 Kn=10 Sorted: 124 Kg Total catch: 854.22 CATCH/HOUR: 1708.44 SPECIES CATCH/HOUR 1 OF TOT. C SAMP Weight numbers Merluccius capensis, juveniles 560.60 3312 32.81 293 Merluccius capensis, juveniles 550.00 2994 31.02 295 Merluccius capensis, female 396.00 2720 23.18 294 SUfflogobius bibarbatus 74.18 5934 4.34 Lophius vomerinus 68.00 222 3.98 295 Coelorinchus fasciatus 74.18 5934 4.34 Lophius vomerinus 68.00 222 3.98 297 Coelorinchus fasciatus 24.42 796 1.43 Petrothrissus belloci 17.94 112 1.05 Austroglossus microlepis 3.26 6 0.19 298 Total 1708.44 995.99	Sorted: 57 kg Total catch: 626.94 CATCH/HOUR: 1253.88
DATE: 9/ 2/94	DATE:10/2/94 GEAR TYPE: BT No:1 POSITION: At \$2329 start stop duration Long E 1326 TIME:11:12:00 11:42:00 30 (min) Purpose code: 3 Long E 1326 Long E 1326
DATE: 9/ 2/94	DATE:10/ 2/94 GEAR TYPE: BT No:1 POSITION: 72 start stop duration Long E 1319 TIME:13:43:00 14:13:00 30 (min) Purpose code: 3 LOG:2147.70 2149.20 1.50 Area code: 2 FDEPTH: 312 312 GearCond.code: BDEPTH: 312 312 Validity code: Towing dir: 15* Wire out: 924 m Speed: 33 kn*10 Sorted: 275 Kg Total catch: 433.42 CATCH/HOUR: 866.84
Merluccius capensis, juveniles Weight Numbers Nu	Merluccius capensis, female 364.70 196 42.07 329 Helicolenus dactylopterus 136.80 3678 15.78 Galeus polli 88.20 1538 10.17 Merluccius capensis, female 51.10 182 5.89 328 Merluccius capensis, male 46.00 34 5.31 326 Schedophilus huttoni 42.34 14 4.88 Merluccius capensis, male 41.20 132 4.75 331 Deepwater fish mixture 19.20 4.52 Todarodes sagittatus 17.98 34 2.07 Lophius vomerinus 12.60 10 1.45 327 Squalus megalops 10.14 8 1.17 Coelorinchus fasciatus 8.88 364 1.02 Merluccius capensis, juveniles 1.68 118 0.19 330 Hyperoglyphe moselii 6.4 2 0.19 PORTUNIDAE 1.26 48 0.15 Shrimps, Small, non comm 1.04 328 0.12 Chlorophthalmus atlanticus 0.90 48 0.10 Squilla acuelata calmani 0.70 20 0.08 Malacocephalus occidentalis 0.34 8 0.04 Solenocera africana 866.84 99.97
SPECIES CATCH/HOUR OF TOT. C SAMP weight numbers 0.00 Total	

NO CATCH Total

PROJECT STATION: 73	PROJECT STATION: 77
DATE:10/2/94 GEAR TYPE: BT No:1 POSITION:Lat S 2328 start stop duration Long E 1307 TIME :16:20:00 16:50:00 30 (min) Purpose code: 3	DATE:11/ 2/94 GEAR TYPE: PT No:7 POSITION:Lat S 2309 start stop duration Long E 1358 TIME :13:07:00 13:14:00 7 (min) Purpose code: 1
LOG :2163.60 2165.10 1.50 Area code : 2 FDEPTH: 418 416 GearCond.code:	LOG :2288.80 2290.10 1.30 Area code : 2 FDEPTH: 124 124 GearCond.code:
BDEPTH: 418 416 Validity code: Towing dir: 360° Wire out:1261 m Speed: 31 kn*10	BDEPTH: 134 134 Validity code: Towing dir: 100° Wire out: 400 m Speed: 30 kn•10
Sorted: 181 Kg Total catch: 372.10 CATCH/HOUR: 744.20	Sorted: 16 Kg Total catch: 389.39 CATCH/HOUR: 3337.53
SPECIES CATCH/HOUR % OF TOT C SAMP weight numbers Merluccius paradoxus, female 200.00 276 26.87 334	SPECIES CATCH/HOUR % OF TOT. C SAMP weight numbers
Helicolenus dactylopterus 106.00 138 14.24 Selachophidium guentheri 67.20 322 9.03	Merluccius capensis, juveniles 3174.00 310646 95.10 347 Sardinops ocellata 124.20 1183 3.72 349
Schedophilus huttoni 41.84 32 5.62 Galeus polli 41.60 416 5.59	Trachurus capensis, juvenile 39.43 3154 1.18 348 Total 3337.63 100.00
Nezumia sp. 37.04 1320 4.98 Trachyrinus scabrus 34.80 536 4.68 Raja doutrei 28.00 8 3.76	Total 3337.63 100.00
Todarodes sagittatus	
Epigonus denticulatus 24.16 144 3.25 Lophius vomerinus 20.10 30 2.70 335	PROJECT STATION: 78
Deepwater fish mixture	DATE:11/ 2/94 GEAR TYPE: BT No:1 POSITION:Lat S 2301 start stop duration long E 1346 TIME:15:05:00 15:23:00 18 (min) Purpose code: 3
Merluccius capensis, female 9.90 4 1.33 332 Deania profundorum 9.12 8 1.23	LOG :2304.10 2305.00 0.90 Area code : 2 FDEPTH: 144 144 GearCond.code:
Etmopterus pusillus 7.44 8 1.00 Hoplostethus mediterraneus 5.40 240 0.86 CONGETDE 4.48 8 0.60	BDEPTH: 144 144 Validity code: Towing dir: 348' Wire out: 450 m Speed: 32 kn*10
CONGRIDAE 4.48 8 0.60 Lithodes ferox 2.50 6 0.34 Merluccius paradoxus, male 2.50 6 0.34 333	Sorted: 35 Kg Total catch: 389.35 CATCH/HOUR: 1297.83
Coelorinchus fasciatus 1.76 24 0.24 Shrimps, small, non comm. 1.60 400 0.21	SPECIES CATCH/HOUR % OF TOT. C SAMP
Yarella blackfordi 0.80 56 0.11 Notacanthus sexspinis 0.80 72 0.11 S H R I M P S 0.55 168 0.08	sufflogobius bibarbatus 1259.50 240653 97.05 Merluccius capensis. juveniles 38.33 3937 2.95 350
Aristeus varidens 0.40 40 0.05 Scopelosaurus meadi 0.24 8 0.03	Total 1297.63 100.00
Chlorophthalmus atlanticus C.24 8 0.03 GONOSTOMATIDAE 0.16 24 0.02	
Total 744.20 100.00	
	PROJECT STATION: 79 DATE:11/ 2/94 GEAR TYPE: BT No:1 POSITION:Lat S 2302
PROJECT STATION: 74 DATE:10/2/94 GEAR TYPE: BT No:1 POSITION:Lat S 2324	start stcp duration Long E 1340 TIME :16:43:00 16:49:00 5 (min) Purpose code: 3 LOG :2313.60 2313.90 0.30 Area code : 2
DATE:10/ 2/94 GEAR TYPE: BT No:1 POSITION:Lat S 2324 start stop duration Long E 1312 TIME:18:14:00 18:44:00 30 (min) Purpose code: 3	LOG :2313.60 2313.90 0.30 Area code : 2 FDEPTH: 148 148 GearCond.code: BDEPTH: 148 148 Validity code:
LOG :1171.90 2173.70 1.80 Area code : 2 FDEPTH: 378 377 GearCond.code:	Towing dir: 357 Wire out: 450 m Speed: 35 kn*10
BDEPTH: 378 377 Validity code: Towing dir: * Wire out:1140 m Speed: 33 %n*10	Sorted: 18 Kg Total catch: 56.01 CATCH/HOUR: 560.10
Sorted: 142 Kg Total catch: 342.72 CATCH/HOUR: 685.44	SPECIES CATCH/HOUR 1 OF TOT. C SAMP weight numbers
SPECIES CATCH/HOUR % OF TOT. C SAMP weight numbers	Merluccius capensis, juveniles 535.80 40240 95.66 351 Sufflogobius bibarbatus 24.30 1320 4.34
Galeus polli 151, 20 1714 22, 06 Helicolenus dactylopterus 148.80 1838 21:71 Merluccius paradoxus, female 78.80 170 11.50 338	Total 560.10 100.00
Merluccius capensis, female 73.80 30 10.77 336 Lophius vomerinus 60.40 44 8.81 339	
Coelorinchus fasciatus 46.24 1216 6.75 Deania profundorum 31.68 48 4.62	PROJECT STATION: 80
Etmopterus pusillus 28.64 64 4.18 Selachophidium guentheri 11.20 432 1.63	DATE:11/ 2/94 GEAR TYPE: BT No:1 POSITION:Lat S 2302 start stop duration Long E 1327
	TIME :18:26:00 18:50:00 24 (min) Purpose code: 3
SHRIMPS 11.04 2540 1.61 Epigonus denticulatus 10.56 288 1.54 Nezumia leonis 9.92 416 1.45	TIME :18:26:00 18:50:00 24 (min) Purpose code: 3 LOG :2328:00 2329:10 1.10 Area code : 2 FDEPTH: 258 270 GearCond.code:
S H R Î M P S 11.04 2540 1.61 Epigonus denticulatus 10.56 288 1.54 Nezumia leonis 9.92 416 1.45 Todarodes sagittatus 8.28 48 1.21 Merluccius paradoxus, male 6.40 8 0.93 337	TIME :18:26:00 18:50:00 24 (min) Purpose code: 3 LOG :2328.00 2329.10 1.10 Area code : 2
S H R I M P S 11.04 2540 1.61 Epigonus denticulatus 10.56 288 1.54 Nezumia leonis 9.92 416 1.45 Todarodes sagittatus 8.28 48 1.21 Merluccius paradoxus, male 6.40 8 0.93 337 Genypterus capensis 6.20 2 0.90 Hoplostethus mediterraneus 2.24 48 0.33	TIME :18:26:00 18:50:00 24 (min) Purpose code: 3 LOG :2328.00 2329.10 1.10 Area code : 2 FDEPTH: 268 270 GearCond.code: BDEPTH: 268 270 Validity code:
S H R I M P S	TIME :18:26:00 18:50:00 24 (min) Purpose code: 3 LOG :2328:00 2329:10 1.10 Area code : 2 FDEPTH: 268 270 GearCond.code: BDEPTH: 268 270 Walidity code: Towing dir: * Wire out: 800 m Speed: 32 kn*10 Sorted: 103 kg Total catch: 243.50 CATCH/HOUR: 608.75 SPECIES CATCH/HOUR % OF TOT. C SAMF
S H R I M P S 11.04 2540 1.61 Epigonus denticulatus 10.56 288 1.54 Nezumia leonis 9.92 416 1.45 Todarodes sagittatus 8.28 48 1.21 Merlucclus paradoxus, male 6.40 8 0.93 337 Genypterus capensis 6.20 2 0.90 Hoplostethus mediterraneus 2.24 48 0.33 Total 685.40 100.00	TIME :18:26:00 18:50:00 24 (min) Purpose code: 3 LOG :2328.00 2329.10 1.10 Area code : 2 FDEPTH: 268 270 GearCond.code: Towing dir: * Wire out: 800 m Speed: 32 kn*10 Sorted: 103 Kg Total catch: 243.50 CATCH/HOUR: 608.75 SPECIES CATCH/HOUR & OF TOT. C SAMP Weight numbers Merluccius capensis, female 157.50 1183 25.87 357 Merluccius capensis, male 132.50 1138 21.77 358
S H R I M P S 11.04 2540 1.61 Epigonus denticulatus 10.56 288 1.54 Nezumia leonis 9.92 416 1.45 Todarodes sagittatus 8.28 48 1.21 Merluccius paradoxus, male 6.40 8 0.93 337 Genypterus capensis 6.20 2 0.90 Hoplostethus mediterraneus 2.24 48 0.33 Total 685.40 100.00 PROJECT STATION: 75 DATE:10/ 2/94 GEAR TYPE: BT No:1 POSITION:Lat S 2321	TIME :18:26:00 18:50:00 24 (min) Purpose code: 3 LOG :2328.00 2329.10 1.10 Area code : 2 FDEPTH: 268 270 GearCond.code: Towing dir: * Wire out: 800 m Speed: 32 kn*10 Sorted: 103 Kg Total catch: 243.50 CATCH/HOUR: 608.75 SPECIES CATCH/HOUR & OF TOT. C SAMF Weight numbers Merluccius capensis, female 137.50 1183 25.87 357 Merluccius capensis, male 132.50 1188 21.77 358 Merluccius capensis, female 61.25 35 10.06 352 MCTOPHIDAE 60.38 17028 9.92
S H R I M P S	TIME :18:26:00 18:50:00 24 (min) Purpose code: 3 LOG :2328.00 2329.10 1.10 Area code : 2 FDEPTH: 268 270 GearCond.code: Validity code: Towing dir: Wire out: 800 m Speed: 32 kn*10 Sorted: 103 Kg Total catch: 243.50 CATCH/HOUR: 608.75 SPECIES CATCH/HOUR Weight numbers Merluccius capensis, female 157.50 1183 25.87 357 Merluccius capensis, female 157.50 1183 21.77 358 Merluccius capensis, female 61.25 35 10.06 352 MICTOPHIDAE 60.38 17028 9.92 Galeus polli 55.75 463 9.16 Lophius vomerinus 37.25 43 6.12 354 Coelorinchus fasciatus 19.88 840 3.27
S H R I M P S	TIME :18:26:00 18:50:00 24 (min) Purpose code: 3 LOG :2328.00 2329.10 1.10 Area code : 2 FDEPTH: 268 270 GearCond.code: Validity code: Towing dir: Wire out: 800 m Speed: 32 kn*10 Sorted: 103 Kg Total catch: 243.50 CATCH/HOUR: 608.75 SPECIES CATCH/HOUR Weight numbers Merluccius capensis, female 157.50 1183 25.87 357 Merluccius capensis, female 157.50 1183 25.87 357 Merluccius capensis, female 157.50 1183 21.77 358 Merluccius capensis, female 157.50 1183 21.77 358 Merluccius capensis, female 61.25 35 10.06 352 MYCTOPHIDAE 60.18 17028 9.92 Galeus polli 55.75 463 9.16 Lophius vomerinus 37.25 43 6.12 354 Coelorinchus fasciatus 19.88 840 3.27 Merluccius capensis, juveniles 18.73 1375 3.08 356 Helicolenus dactylopterus 17.43 1138 2.86
S H R I M P S Epigonus denticulatus 10.56 288 1.54 Nezumia leonis 9.92 416 1.45 Todarodes sagittatus 8.28 48 1.21 Merluccius paradoxus, male 6.40 8 0.93 Genypterus capensis 6.20 2 0.90 Hoplostethus mediterraneus 2.24 48 0.33 Total DATE:10/2/94 GEAR TYPE: BT No:1 PROJECT STATION: 75 DATE:10/2/94 GEAR TYPE: BT No:1 PROJECT STATION: 75 TIME :19:34:00 20:04:00 30 (min) LOG :2177.60 2179.30 1.70 Area code : 2 FDEPTH: 356 358 GEARCOM.	TIME :18:26:00 18:50:00 24 (min) Purpose code: 3 LOG :2328.00 2339,10 1.10 Area code : 2 FDEPTH: 268 270 GearCond.code: Towing dir: * Wire out: 800 m Speed: 32 kn*10 Sorted: 103 Kg Total catch: 243.50 CATCH/HOUR: 608.75 SPECIES CATCH/HOUR tour tour tour tour tour tour tour tour
S H R I N P S Epigonus denticulatus 10.56 288 1.54 Nezumia leonis 9.92 416 1.45 Todarodes sagittatus 8.28 48 1.21 Merluccius paradoxus, male 6.40 8 0.93 Genypterus capensis 6.20 2 0.90 Hoplostethus mediterraneus 2.24 48 0.33 Total DATE:10/ 2/94 GEAR TYPE: BT No:1 POSITION: 75 DATE:10/ 2/94 GEAR TYPE: BT No:1 POSITION: As 2321 Start stop duration TIME :19:34:00 20:04:00 30 (min) LOG :2177.60 2179.30 1.70 Area code : 2 FDEPTH: 356 358 GEAR TYPE: BT No:2 POSITION: As 2321 STATE COMMENT OF THE COMM	TIME :18:26:00 18:50:00 24 (min) Purpose code: 3 LOG :2328.00 2339; 10 1.10
S H R I N P S	TIME :18:26:00 18:50:00 24 (min) Purpose code: 3 LOG :2328.00 2339; 10 1.10
S H R I M P S	TIME :18:26:00 18:50:00 24 (min) Purpose code: 3 LOG :2328.00 2339.10 1.10 Area code : 2 FDEPTH: 268 270 BDEPTH: 268 270 Towing dir: * Wire out: 800 m Speed: 32 kn*10 Sorted: 103 Kg Total catch: 243.50 CATCH/HOUR: 608.75 SPECIES CATCH/HOUR
S H R I M P S	TIME :18:26:00 18:50:00 24 (min) Purpose code: 3 LOG :2328.00 2339,10 1.10 Area code : 2 FDEPTH: 268 270 BDEPTH: 268 270 Towing dir: * Wire out: 800 m Speed: 32 kn*10 Sorted: 103 Kg Total catch: 243.50 CATCH/HOUR: 608.75 SPECIES CATCH/HOUR
S H R I N P S 11.04	TIME :18:26:00 18:50:00 24 (min) Purpose code: 3 LOG :2328.00 2339.10 1.10 Area code: 2 FDEPTH: 268 270 GearCond.code: Validity code: 7 Towing dir: * Wire out: 800 m Speed: 32 kn*10 Sorted: 103 Kg Total catch: 243.50 CATCH/HOUR: 608.75 SPECIES CATCH/HOUR & OF TOT. C SAMF Weight numbers Weight numbers Weight numbers Herluccius capensis, female 157.50 1183 25.87 357 Merluccius capensis, male 132.50 1188 21.77 358 Merluccius capensis, female 61.25 35 10.06 352 MCTOPHIDAE 60.18 17028 9.92 Galeus polli 55.75 463 9.16 Cophrinous vomerinus 37.25 43 6.12 354 Coelorinchus fasciatus 19.88 840 3.27 Merluccius capensis, juveniles 18.73 1375 3.08 356 Merluccius capensis, male 16.75 15 2.75 353 Aristeus varidens 16.75 15 2.75 353 Aristeus varidens 16.75 15 2.75 353 Aristeus varidens 6.23 1218 1.02 Hyperoglyphe moselii 5.43 10 0.89 Petrothrissus belloci 5.43 10 0.89 Petrothrissus belloci 5.43 28 0.89 Trachurus capensis 5.15 35 0.85 Sufflogobius bibarbatus 3.78 438 0.62 Dentex macrophthalmus 1.33 150 0.22 Todaropsis eblanae 6.28 0.89 3 0.11 355
S H R I N P S	TIME :18:26:00 18:50:00 24 (min) Purpose code: 3 LOG :23128.00 2339; 10 1.10
S H R I N P S	TIME :18:26:00 18:50:00 24 (min) Purpose code: 3 LOG :2328.00 2339.10 1.10
S H R T N P S	TIME :18:26:00 18:50:00 24 (min) Purpose code: 3 LOG :2328.00 2339.10 1.10 Area code : 2 FDEPTH: 268 270 BDEPTH: 268 270 Towing dir: * Wire out: 800 m Speed: 32 kn*10 Sorted: 103 Kg Total catch: 243.50 CATCH/HOUR: 608.75 SPECIES CATCH/HOUR
S H R T N P S	TIME :18:26:00 18:50:00 24 (min) Purpose code: 3 LOG :2328.00 2339.10 1.10 Area code : 2 FDEPTH: 268 270 BDEPTH: 268 270 Towing dir: * Wire out: 800 m Speed: 32 kn*10 Sorted: 103 Kg Total catch: 243.50 CATCH/HOUR: 608.75 SPECIES CATCH/HOUR
S H R T N P S	TIME :18:26:00 18:50:00 24 (min) Purpose code: 3 LOG :23128.00 23329.10 1.10 LOG :23128.00 23329.10 1.10 Area code : 2 FDEPTH: 268 270 BDEPTH: 268 270 Towing dir: * Wire out: 800 m Speed: 32 kn*10 Sorted: 103 Kg Total catch: 243.50 CATCH/HOUR: 608.75 SPECIES CATCH/HOUR to FTOT. C SAMF Weight numbers Weight numbers Merluccius capensis, female 157.50 11.83 25.87 357 Merluccius capensis, male 157.50 11.83 25.87 357 Merluccius capensis, female 132.50 11.38 21.77 358 Merluccius capensis, female 60.38 17028 9.92 Galeus polli 55.75 463 9.16 Lophius vomerinus 37.25 43 6.12 354 Coelorinchus fasciatus 19.88 840 3.27 Merluccius capensis, juveniles 18.73 1375 1.08 356 Helicolenus dactylopterus 17.43 11.38 2.86 Merluccius capensis. male 16.75 15 2.75 Aristeus varidens 6.23 1218 1.02 Hyperoglyphe moselii 5.43 118 0.89 Hyeroglyphe moselii 5.43 28 0.89 Hyeroglyphe moselii 5.43 28 0.89 Trachurus capensis 5.15 35 0.85 Sufflogobius bibarbatus 3.78 438 0.62 Dentex macrophthalmus atlanticus 1.33 150 0.22 Todaropsis eblanee 0.80 28 0.13 CR A B S 0.18 28 0.03 Total GEAR TYPE: BT No:1 POSITION: 81 DATE:11/ 2/94 GEAR TYPE: BT No:1 POSITION: Lat S 2301 LOG :2334.90 2336.50 1.60 FDEPTH: 320 323 Gearcond.code: 2
S H R T N P S	TIME :18:26:00 18:50:00 24 (min) Purpose code: 3 LOG :23128.00 2339; 10 1.10 Area code : 2 FDEPTH: 268 270 BDEPTH: 268 270 Towing dir: * Wire out: 800 m Speed: 32 kn*10 Sorted: 103 Kg Total catch: 243.50 CATCH/HOUR: 608.75 SPECIES CATCH/HOUR weight numbers numb
S H R T N P S	TIME : 18:26:00 18:50:00 24 (min) Purpose code: 3 LOG : 2328.00 2339; 10 1.10 Area code : 2 FDEPTH: 268 270 BDEPTH: 268 270 Towing dir: * Wire out: 800 m Speed: 32 kn*10 Sorted: 103 Kg Total catch: 243.50 CATCH/HOUR: 608.75 SPECIES CATCH/HOUR to FTOT. C SAMF weight numbers Merluccius capensis, female 15:50 11:83 25:87 357 Merluccius capensis, male 15:50 11:83 25:87 357 Merluccius capensis, male 15:50 11:83 21:77 358 Merluccius capensis, female 15:50 11:83 21:77 358 Merluccius capensis, male 15:50 11:83 21:77 358 Merluccius capensis, female 15:50 11:83 21:77 358 Merluccius capensis, juvenile 15:75 463 9.16 Lophius vomerinus 15:75 463 9.16 Celorinchus fasciatus 19:88 840 3.27 Merluccius capensis, juveniles 18:73 1375 3.08 356 Merluccius capensis, juveniles 18:73 1375 3.08 356 Merluccius capensis, male 16:75 15 2.75 353 Aristeus varidens 6:23 1218 1.02 Myperoglyphe moselii 5:43 10 0.89 Pterothrissus belloci 5:43 20 0.89 Pterothrissus belloci 5:43 20 0.89 Pterothrissus belloci 5:43 28 0.89 Trachurus capensis 5:55 35 0.85 Sufflogobius bibarbatus 3.78 438 0.62 Denetx macrophthalmus 2.28 10 0.17 Chlorophthalmus atlanticus 1:33 150 0.22 Todaropis eblane 0.80 28 0.13 Cenypterus capensis 0.68 3 0.11 355 C R A B S Total 608.71 99.99 DATE: 11/2/94 GEAR TYPE: BT No: 1 POSITION: Lat \$2:301 LOG : 2334.90 2336.50 1.60 Area code : 2 PDEPTH: 320 323 Validity code: Towing dir: Wire out: 960 m Speed: 31 kn*10 Sorted: 143 Kg Total catch: 143.43 CATCH/HOUR: 286.86
S H R T N P S	TIME : 18:26:00 18:50:00 24 (min) Purpose code: 3 LOG : 2328.00 2339; 10 1.10 Area code : 2 FDEPTH: 268 270 BDEPTH: 268 270 Towing dir: * Wire out: 800 m Speed: 32 kn*10 Sorted: 103 Kg Total catch: 243.50 CATCH/HOUR: 608.75 SPECIES CATCH/HOUR
S H R I N P S	TIME :18:26:00 18:50:00 24 (min) Purpose code: 3 LOG :23128.00 2339;10 1.10 Area code : 2 FDEPTH: 268 270 BDEPTH: 268 270 Towing dir: * Wire out: 800 m Speed: 32 kn*10 Sorted: 103 Kg Total catch: 243.50 CATCH/HOUR: 608.75 SPECIES CATCH/HOUR weight numbers weight numbers number numbers number numbers number numbers number number numbers number numbers nu
S H R I N P S	TIME
S H R T M P S	TIME
S H R I M P S 11.04 2540 1.61	TIME
S H R I N P S	TIME
S H R I N P S	TIME

Total

286.86

DATE:11/ 2/94 GEAR start stop duration TIME: 23:30:00 24:00:00 30 (m LOG: 2358.50 2360.30 1.80 FDEPTH: 444 457 BDEPTH: 444 457 Towing dir: 340° Wire ou	in) Purpose code: 3 Area code : 2 GearCond.code: Validity code: 5 t:1350 m Speed: 34 kn*10		start stop duration TIME :15:00:00 15:30:00 30 (r LOG :2443.60 2445.20 1.60 FDEPTH: 246 243 BDEPTH: 246 243	TYPE: BT No:1 POSITI min) Purpose code: 3 Area code: 2 GearCond.code: Validity code: at: 740 m Speed: 33 km	
borted. 220 kg Total tate	n. 333.03 CATCA, ABON. 1	333.20	Jorean 24 kg Total Care	ch: 611.83 CATCH/	HOUR: 1223.66
SPECIES	CATCH/HOUR % OF TOT. C	SAMP	SPECIES		OF TOT. C SAMP
Merluccius paradoxus, female Trachyrinus scabrus Epigonus denticulatus Centroscymnus crepidater Helicolenus dactylopterus Deania profundorum	weight numbers 612.26 1116 30.62 425.40 2416 21.28 311.54 696 15.58 137.00 10 6.85 136.40 1038 6.82 75.16 124 3.76 66.00 24 3.30	365	Merluccius capensis, male Merluccius capensis, female Merluccius capensis, juveniles Pterothrissus belloci Sufflogobius bibarbatus Solenocera africana Austroglossus microlepis	weight numbers 565.60 7112 506.80 6496 116.48 4200 13.44 168 6.72 784 5.60 1344	46.22 386 41.42 387 9.52 389 1.10 0.55 0.46
Lophius vomerinus Deepwater fish mixture	57.66 2.88	363	PORTUNÍDAE	4.92 10 3.36 56	0.40 384 0.27
Nezumia sp. Selachophidium guentheri Merluccius paradoxus, male Todarodes sagittatus Galeus polli Lithodes ferox Hoplostethus mediterraneus Notacanthus sexspinis Coelorinchus fasciatus Aristeus varidens	45.72 1658 2.29 45.72 930 2.29 45.48 76 2.27 18.44 30 0.92 11.16 294 0.56 6.00 6 0.30 2.94 154 0.15 1.08 46 0.05 0.92 30 0.05 0.92 76 0.05	364	Lophius vomerinus Total	0.74 4	0.06 385
Total	1999.80 100.02		DATE:12/ 2/94 GEAR		ECT STATION: 87 ON:Lat S 2229
start stop duration TIME :07:50:00 08:20:00 30 (m LOG :2404.80 2406.50 1.80 FDEPTH: 344 355 BDEPTH: 344 355		ON: 83 S 2234 E 1252	STEEL 2 2/94 start stop duration TIME :19:15:00 19:45:00 30 () LOG :2459.00 2460.60 1.60 FDEPTH: 212 210 Towing dir: 350* Wire ou Sorted: 39 Kg Total cate	n min) Purpose code: 3 Area code : 2 GearCond.code: Validity code: ut: 650 m Speed: 31 kn ch: 430.10 CATCH/	Long E <u>1</u> 325
Sorted: 130 kg Total cate	h: 295.45 CATCH/HOUR:	590.90	Merluccius capensis, female	321.20 3674	37.34 387
CDECIEC	CATCU /UAIID 4 22 222	CAUP	Merluccius capensis, male Sufflogobius bibarbatus	291.50 3652 247.50 54000	33.89 386 28.77
Merluccius paradoxus, female centroscyllium fabricii Centrolophus niger Coelorinchus fasciatus Helicolenus dactylopterus Etmopterus pusillus Genypterus capensis Merluccius capensis, female Epigonus denticulatus	CATCH/HOUR weight numbers: 163.30 172 27.64 130.20 70 22.03 60.76 1064 10.28 50.96 560 8.62 20.58 28 3.48 13.70 8 2.32 11.50 8 1.95 10.36 252 1.75	369 370 366	Total	860.20	100.00
Galeus polli	9.38 392 1.59			TYPE: BT No:1 POSITI	ECT STATION: 88 ON:Lat S 2201
Merluccius capensis, male Todarodes sagittatus	8.90 6 1.51 5.32 14 0.90	367	start stop duratio TIME :06:57:00 07:27:00 30 (min) Purpose code: 3	Long E 1323
Lophius vomerinus PORTUNIDAE	5.00 4 0.85 3.50 98 0.59	371	LOG :2549.00 2550.20 1.20 FDEPTH: 161 161	Area code : 2 GearCond.code:	
Merluccius paradoxus, male Nezumia sp.	3.36 4 0.57 3.22 140 0.54	368	BDEPTH: 161 161 Towing dir: 350° Wire or	Validity code: ut: 500 m Speed: 24 kn	*10
Beryx splendens Lamprogrammus exutus	2.38 14 0.40 1.82 28 0.31		Sorted: 58 Kg Total cat		
Chlorophthalmus atlanticus Ebinania costaecanarie	1.54 42 0.26 0.42 14 0.07		•		
Total	590.90 99.99		SPECIES	CATCH/HOUR % weight numbers	OF TOT. C SAMP
start stop duration TIME :10:20:00 10:55:00 35 (m LOG =18:40 2420.20 1.80 FDEPTH: 292 290 BDEPTH: 292 290	nin) Purpose code: 3 Area code: 2 GearCond.code: Validity code: t: 900 m Speed: 33 kn*10		Sufflogobius bibarbatus Merluccius capensis, female Merluccius capensis, male Merluccius capensis, juveniles Squalus megalops Squilla acuelata calmani Trachurus capensis, juvenile Total	268.00 73738 139.96 1638 90.90 1198 16.00 694 3.24 10 2.26 208 0.08 28	51.49 26.89 388 17.47 389 3.07 390 0.62 0.43 0.02 391
SPECIES	CATCH/HOUR % OF TOT. C weight numbers	SAMP			
Merluccius capensis, female Merluccius capensis, male Chlorophthalmus atlanticus Lophius vomerinus Helicolenus dactylopterus Coelorinchus fasciatus Deepwater fish mixture Raja leopardus Galeus polli Todarodes sagittatus Schedophilus huttoni Aristeus varidens S H R I M P S	466.71 360 58.96 75.34 154 9.52 60.17 2211 7.60 48.86 58 6.17 31.94 1262 4.04 27.72 3.50 23.40 10 2.96 11.57 309 1.46 9.51 10 1.20 2.78 5 0.35 2.42 411 0.31 0.62 113 0.08	372 .373 374	start stop duratio TIME :08:58:00 09:28:00 30 (: LOG :2558.50 2560.10 1.60 FDEPTH: 170 173 BDEPTH: 170 173	TYPE: BT No:1 POSITI n n Purpose code: 3 Area code: 2 GearCond.code: Validity code: ut: 500 m Speed: 32 kn ch: 1765.70 CATCH/	
Lepidopus caudatus MYXINIDAE	0.62 5 0.08 0.26 10 0.03		Merluccius capensis, female	weight numbers 1663.20 23072	47.10 392
Total	791.54 100.00		Merluccius capensis, male Merluccius capensis, juveniles	1276.80 16240 490.60 15944	36.16 393 13.89 394
start stop duration TIME :12:50:00 13:11:00 21 (m LOG :2431.80 2432.90 1:10 FDEPTH: 270 268 BDEPTH: 270 268	nin) Purpose code: 3 Area code: 2 GearCond.code: Validity code: tt: 840 m Speed: 33 kn*10	S 2232 E 1310	DATE:13/ 2/94 CEAR Start stop duration TIME:1134:00 12:04:00 30 (LOG::2574.00 2575.60 1.60 FDEPTH: 236 234	TYPE: BT No:1 POSITI n min) Purpose code: 3 Area code : 2	2.85 100.00 EECT STATION: 90 ON:Lat S 2202 Long E 1305
Galeus polli	451.66 149 31.16	276	BDEPTH: 236 234	GearCond.code: Validity code:	-10
Merluccius capensis, male Coelorinchus fasciatus	244.29 1546 16.86 165.57 4446 11.42	375	Towing dir: 350° Wire or		
Merluccius capensis, juveniles Merluccius capensis, female	149.29 4397 10.30 149.29 1031 10.30	380 377	Sorted: 35 Kg Total cat	ch: 1276.86 CATCH/	'Hour: 2553.72
Pterothrissus belloci Merluccius capensis, female	119.43 1166 8.24 67.00 66 4.62	376	SPECIES		OF TOT. C SAMP
Lophius vomerinus Merluccius capensis, male	26.86 91 1.85 19.14 26 1.32	381 379	Merluccius capensis, female	weight numbers 1228.00 15168	48.09 397
Solenocera africana Helicolenus dactylopterus	14.37 2849 0.99 13.83 1111 0.95		Merluccius capensis, male Pterothrissus belloci	1224.00 16416 22.08 480	47.93 396 0.86
Dentex macrophthalmus Austroglossus microlepis	11.94 26 0.82 7.86 14 0.54	382	Merluccius capensis, juveniles Austroglossus microlepis	18.24 1248 17.70 126	0.71 395 0.69 399
Sufflogobius bibarbatus Lophius vomerinus	2.97 380 0.20 2.43 134 0.17	378	Solenocera africana PORTUNIDAE	16.32 3552 13.44 48	0.64 0.53
Synagrops microlepis Chlorophthalmus atlanticus	1.63 163 0.11 1.34 189 0.09		Sufflogobius bibarbatus Lophius vomerinus	13.44 2496 0.50 8	0.53 0.02 398
Genypterus capensis	0.37 3 0.03	383	Total	2553.72	100.00
Total	1449,27 99,97				•

	i	PROJECT STATI	ON: 91			DDO T	ECT STATION	N: 95
		SITION: Lat	s 2204		TYPE: BT No:1		ON:Lat S	2201
start stop duration TIME :13:36:00 14:06:00 30 (mi		3	E 1259	start stop duration TIME :22:38:00 23:28:00 30 (min) Purpose	code: 3	Long E	1236
LOG : 2584.90 2586.30 1.40 FDEPTH: 289 292	GearCond.code			LOG :2625.60 2626.90 1.30 FDEPTH: 617 628	Area cod GearCond	: 2		
BDEPTH: 289 292 Towing dir: 360° Wire out	Validity code : 840 m Speed: 3]			BDEPTH: 617 628 Towing dir: * Wire o	Validity out:1850 m Spec	code:	• 10	
Sorted: 125 Kg Total catch	-		667.50					20.00
•		•		Sorted: 187 Kg Total cat	ch: 519.99	CATCH/	HOUR: 10.	39.98
SPECIES	CATCH/HOUR weight number:	N OF TOT. C	SAMP	SPECIES	CATCH/H	OUR &	OF TOT. C	SAMP
Chlorophthalmus atlanticus Merluccius capensis, female	210.40 10790 84.10 6		401	Centrophorus granulosus		umbers		
Helicolenus dactylopterus	72.32 6146	6 10.83		Merluccius paradoxus, female	273.40	26 226	30.38 26.29	424
Merluccius capensis, female Merluccius capensis, male	65.76 336 61.60 19		403 402	Neocyttus rhomboidalis Nezumia sp.	116.74 91.26	442 4082	11.23 8.78	
Lophius vomerinus Merluccius capensis, male	49.30 81 43.00 41		405 400	Raja sp. Trachyrinus scabrus	54.08 44.46	52 130	5.20	
Deepwater fish mixture	31.20	4.67		OPHICHTHIDAE	34.32	650	4.28 3.30	
Austroglossus microlepis Merluccius capensis, juveniles	13.70 2- 7.84 51	2 1.17	405 407	Coelorinchus fasciatus Heterocarpus grimaldii	18.72 16.64	104 1118	1.80	
Coelorinchus fasciatus Synagrops microlepis	6.24 433 5.28 528	2 0.93		Deania calcea Notacanthus sexspinis	15.08	26 78	1.45	
Solenocera africana	4.80 80	0 0.72		Yarella blackfordi	12.22 10.14	364	1.18 0.98	
Coelorinchus coelorinch, polli Trachurus capensis	4.00 144 3.20 1			Selachophidium guentheri Lophius vomerinus	9.62 7.90	234 2	0.93 0.76	423
PORTUNIDAE Galeus polii	2.56 144 1.60 48			Todarodes sagittatus Aristeus varidens	5.72 4.68	25	0.55	
Genypterus capensis		2 0.09	404	ALEPOCEPHALIDAE	2.86	260 104	0.45 0.28	
Total	667.50	99.98		Hoplostethus mediterraneus Stereomastis sculpta	1.56 1.56	130 20B	0.15 0.15	
		PROJECT STATI	OK. 92	Ebinania costaecanarie Nephropsis atlantica	1.56 1.30 1.04	26	0.13	
		SITION:Lat	S 2204	Shrimps, small, non comm.	0.78	104 234	0.10 0.08	
start stop duration TIME :16:10:00 16:31:00 21 (mi	n) Purpose code:		E 1253	Total	1039.98		100.05	
LOG :2598.10 2599.20 1.10 FDEPTH: 335 334	Area code GearCond.code	: 2						
BDEPTH: 335 334	Validity code	:						
	:1020 m Speed: :			DATE: 14/ 2/94 GEA	R TYPE: BT No:1	PROJ POSITI	ECT STATIO	N: 96 2135
Sorted: 270 Kg Total catch	i: 322.42 CA	TCH/HOUR:	921.20	start stop duration TIME :03:37:00 04:07:00 30	on (min) Purpose	code: 3	Long E	1234
ARPOY DO	CAMOU (VOUD	1 OF MOM O	a.u.	LCG : 2653.40 2654.90 1.50	Area cod	e : 2		
SPECIES	CATCH/HOUR weight number:			BDEPTH: 546 542	GearCond Validity	code:		
Merluccius capensis, female Merluccius paradoxus, female	462.43 29 101.71 28		411 413	Towing dir: 360° Wire o	out:1650 m Spe	ed: 32 kn	*10	
Helicolenus dactylopterus Merluccius capensis, male	88.29 191 77.57 7		410	Sorted: 185 Kg Total car	tch: 567.50	CATCH/	HOUR: 11	35.00
Galeus polli	47.31 60	0 5.14						
Lophius vomerinus Schedophilus huttoni	27.14 2 25.71 I	1 2.79	408	SPECIES	CATCH/H weight n	our 1 umbers	OF TOT. C	SAMP
Centrolophus niger Chlorophthalmus atlanticus	19.26 18.17 60	6 2.09 0 1.97		Trachyrinus scabrus Hoplostethus mediterraneus	378.12 220.80	1536 6376	33.31 19.45	
Hexanchus griseus		3 1.86		Merluccius paradoxus, female	155.30	154	13.68	426
Todarodes sagittatus Shrimps, small, non comm	7.37 222	9 0.80		Centroscymnus crepidater Deepwater fish mixture	133.00 53.76	10	11.72 4.74	
Heptranchias perlo Nezumia sp.	6.00 3.77 12	3 0.65 0 0.41		Nezumia sp. Galeus polli	47.36 30.72	2464 320	4.17 2.71	
Genypterus capensis PORTUNIDAE	3.23 2.40 8	3 0.35 6 0.26	409	Todarodes sagittatus Lophius vom e rinus	27.20 21.50	32 12	2.40 1.89	427
Merluccius paradoxus, male		6 0.15	412	Yarella blackfordi	17.50	1388	1.55	42.
Total	921.18	100.00		Raja sp. ALEPOCEPHALIDAE	10.56 9.92	96 800	0.93 0.87	
				Centrophorus granulosus OPHIDIIDAE	8.70 8.32	2 192	0.77 0.73	
DATE: 13 / 2/94 GEAR 3		PROJECT STATI		Selachophidium guentheri	4.80	96	0.42	
start stop duration	TYPE: BT No:1 PO	SITION: Lat Long	ON: 93 S 2204 E 1244	Selachophidium guentheri OPHICHTHIDAE Merluccius paradoxus, male	4.80 4.48 1.46	96 96 2	0.39	425
start stop duration TIME :18:09:00 18:39:00 30 (mi LOG :2609.80 2611.20 1.40	TYPE: BT No:1 PO n) Purpose code: Area code	SITION: Lat Long 3 : 2	S 2204	Selachophidium guentheri OPHICHTHIDAE Merluccius paradoxus, male Notacanthus sexspinis	4.80 4.48 1.46 0.12	96 96	0.39 0.13 0.01	425
start stop duration TIME :18:09:00 18:39:00 30 (mi	TYPE: BT No:1 PO .n) Purpose code:	Long 3 2 3	S 2204	Selachophidium guentheri OPHICHTHIDAE Merluccius paradoxus, male	4.80 4.48 1.46	96 96 2	0.39	425
start stop duration TIME :18:09:00 18:39:00 50 (mi LOG :2609.80 2611.20 1.40 FDEPTH: 382 376 BDEETH: 382 376	TYPE: BT No:1 PO n) Purpose code: Area code GearCond.code	Long 3 2 2	S 2204	Selachophidium guentheri OPHICHTHIDAE Merluccius paradoxus, male Notacanthus sexspinis	4.80 4.48 1.46 0.12	96 96 2	0.39 0.13 0.01	425
start stop duration TIME :18:09:00 18:39:00 30 (mi LOG :2609.80 2611.20 1.40 FDEPTH: 382 376 BDEETH: 382 376	TYPE: BT No:1 PO n) Purpose code: Area code GearCond.code Validity code :1120 m Speed: 2'	SITION: Lat Long 3 : 2 : : 7 kn*10	S 2204	Selachophidium guentheri OPHICHTHIDAE Merluccius paradoxus, male Notacanthus sexspinis Total	4.80 4.48 1.46 0.12	96 96 2 32	0.39 0.13 0.01 99.87	N: 97
start stop duration TIME :18:09:00 18:39:00 30 (mi LOG :2609.80 2511.20 1.40 FDEPTH: 382 376 BDEPTH: 382 376 Towing dir: * Wire out	TYPE: BT No:1 PO n) Purpose code: Area code Gearcond.code Validity code ::1120 m Speed: 2 n: 544.10 CA CATCH/HOUR	SITION: Lat Long 3 : 2 : : 7 kn*10 TCH/HOUR: 1	S 2204 E 1244	Selachophidium guentheri OPHICHTHIDAE Merluccius paradoxus, male Notacanthus sexspinis Total DATE:14/ 2/94 Start stop duratic	4.80 4.48 1.46 0.12 1133.72	96 96 2 32 32 PROJ POSITI	0.39 0.13 0.01 99.87	N: 97 2134
start stop duration TIME :18:09:00 18:39:00 30 (mi LOG :26:09:80 25:11.20 1.40 FDEPTH: 382 376 BDEPTH: 382 376 Towing dir: * Wire out Sorted: 197 Kg Total catch	TYPE: BT No:1 PO n) Purpose code: Area code GearCond.code Validity code :1120 m Speed: 2' n: 544.10 CA	SITION: Lat Long 3 : 2 : 7 top: 7 top: 10 TCH/HOUR: 1 OF TOT. C	S 2204 E 1244	Selachophidium guentheri OPHICHTHIDAE Merluccius paradoxus, male Notacanthus sexspinis Total DATE:14/ 2/94 GEA	4.80 4.48 1.46 0.12 1133.72	96 96 2 32 32 PROJ POSITI	0.39 0.13 0.01 99.87	N: 97 2134
start stop duration	TYPE: BT No:1 PO Area code Area code GearCond.code validity code ::1120 m Speed: 2' h: 544.10 CA CATCH/HOUR weight number 376.00 278 174.90 42	SITION: Lat Long 3 : 2 : 7 kn*10 TCH/HOUR: 1 * OF TOT. C \$ 4 34.55 6 16.07	S 2204 E 1244	Selachophidium guentheri OPHICHHIDAE Merluccius paradoxus, male Notacanthus sexspinis Total DATE:14/ 2/94	4.80 4.48 1.46 0.12 1133.72 R TYPE: BT No:1 on (min) Purpose Area cod GearCond	96 96 2 32 PROJ POSITI code: 3 e : 2 . code:	0.39 0.13 0.01 99.87	N: 97 2134
start stop duration TIME :18:09:00 18:39:00 30 (mi LOG :2609.80 2611.20 1.40 FDEPTH: 382 376 Towing dir: Wire out Sorted: 197 Kg Total catch SPECIES Helicolenus dactylopterus Merluccius paradoxus, female Epigonus denticulatus Deepwater fish mixture	TYPE: BT No:1 PO Area code: Area code GearCond.code validity code: :1120 m Speed: 2' 1: 544.10 CA CATCH/HOUR weight number 376.00 278 174.90 42 135.00 331 54.90	SITION: Lat Long 3 : 2 : : : 7 Kn*10 TCH/HOUR: 1 1 OF TOT. C 8 4 34.55 6 16.07 8 12.50 5.05	S 2204 E 1244	Selachophidium guentheri OPHICHTHIDAE Merluccius paradoxus, male Notacanthus sexspinis Total DATE:14/ 2/94 GEAI	4.80 4.48 1.46 0.12 1133.72 R TYPE: BT No:1 on (min) Purpose Area cod	96 96 2 32 PROJ POSITI code: 3 e : 2 . code:	0.39 0.13 0.01 99.87 JECT STATIO ON:Lat S Long E	N: 97 2134
start stop duration TIME :18:09:00 18:39:00 30 (mi LOG :2609.80 2611.20 1.40 FDEPTH: 382 376 Towing dir: Wire out Sorted: 197 Kg Total catch SPECIES Helicolenus dactylopterus Merluccius paradoxus, female Epigonus denticulatus Deepwater fish mixture Trachyrinus scabrus Todarodes sagittatus	TYPE: BT No:1 PO Area code: Area code GearCond.code validity code ::1120 m Speed: 2: CATCH/HOUR weight number 376.00 278 174.90 42 135.00 331 54.90 47.10 113 39.40 7	3 Long 3 2 12 2 15 kn*10 TCH/HOUR: 1 1 OF TOT. C 5 4 34.55 6 16.07 8 12.50 5.05 4 4.33 2 3.62	S 2204 E 1244	Selachophidium guentheri OPHICHTHIDAE Merluccius paradoxus, male Notacanthus sexspinis Total DATE:14/ 2/94 GEAI	4.80 4.48 1.46 0.12 1133.72 R TYPE: BT No:1 on (min) Purpose Area cod GearCond Validity out:1400 m. Sper	96 96 2 32 PROJ POSITI code: 3 e : 2 . code:	0.39 0.13 0.01 99.87 JECT STATIO ON:Lat S Long E	N: 97 2134
start stop duration TIME :18:09:00 18:39:00 30 (mi LOG :2609.80 2511.20 1.40 FDEPTH: 382 376 Towing dir: Wire out Sorted: 197 Kg Total catch SPECIES Helicolenus dactylopterus Merluccius paradoxus, female Epigonus denticulatus Deepwater fish mixture Trachyrinus scabrus Todarodes sagittatus Selachophidium guentheri	TYPE: BT No:1 PO Area code: Area code GearCond.code Validity code :1120 m Speed: 2' CATCH/HOUR weight number 376.00 278 174.90 42 135.00 331 54.90 47.10 113 39.40 7 35.80 97	3 Long 3 1 Long 3 7 kn*10 TCH/HOUR: 1 4 OF TOT. Cs 4 34.55 6 16.07 8 12.50 4 4.33 2 3.62 2 3.62	S 2204 E 1244	Selachophidium guentheri OPHICHHIDDE Merluccius paradoxus, male Notacanthus sexspinis Total DATE:14/ 2/94 GEAI start stop duratic TIME:07:12:00 07:42:00 30 LOG:2664.40 2668.00 1.60 FDEPTH: 449 432 BDEPTH: 449 432 Towing dir: * Wire co	A .80 4 .48 1 .46 0 .12 1133.72 R TYPE: BT No:1 on (min) Purpose Area cod GearCond validity out:1400 m. Sper	96 96 2 32 PROJ POSITI code: 3 ecode: code: ed: 32 kn	0.39 0.13 0.01 99.87 JECT STATIO ON:Lat S Long E	N: 97 2134 1236
start stop duration TIME :18:09:00 18:39:00 30 (mi LOG :26:09:80 26:11.20 1.40 FDEPTH: 382 376 Towing dir: Wire out Sorted: 197 Kg Total catch SPECIES Helicolenus dactylopterus Merluccius paradoxus, female Epigonus denticulatus Deepwater fish mixture Trachyrinus scabrus Todarodes sagittatus Selachophidium guentheri Aristeus varidens Coelorinchus coelorinch, polli	TYPE: BT No:1 PO Area code: Area code GearCond.code Validity code :1120 m Speed: 2: 544.10 CA CATCH/HOUR weight number 376.00 278 174.90 42 135.00 331 54.90 47.10 113 39.40 7 35.80 97 30.00 240 23.00 446	3 Long 3 1 Long 3 7 kn*10 TCH/HOUR: 1 4 OF TOT. C 5 4 34.55 6 16.07 8 12.50 4 4.33 2 3.62 2 1.38 2 2 1.28	S 2204 E 1244 088.20 SAMP	Selachophidium guentheri OPHICHHIDDE Merluccius paradoxus, male Notacanthus sexspinis Total DATE:14/ 2/94 GEAI start stop duratic TIME:07:12:00 07:42:00 30 LOG:2664.40 2668.00 1.60 FDEPTH: 449 432 BDEPTH: 449 432 Towing dir: * Wire co	4.80 4.48 1.46 0.12 1133.72 R TYPE: BT No:1 on (min) Purpose Area cod GearCond validity out:1400 m. Spectch: 871.47	96 96 96 2 32 PROJ POSITI CODE: 3 : code: code: code: code:	0.39 0.13 0.01 99.87 JECT STATIO ON:Lat S Long E	N: 97 2134 1236
start stop duration TIME :18:09:00 18:39:00 30 (mi LOG :2609.80 2611.20 1.40 FDEPTH: 382 376 Towing dir: Wire out Sorted: 197 Kg Total catch SPECIES Helicolenus dactylopterus Merluccius paradoxus, female Epigonus denticulatus Deepwater fish mixture Trachyrinus scabrus Todarodes sagittatus Selachophidium guentheri Aristeus varidens Coelorinchus coelorinch. polli Lophius vomerinus Galeus polli	TYPE: BT No:1 PO Area code: Area code GearCond.code Validity code :1120 m Speed: 2: CATCH/HOUR weight number 376.00 278 174.90 42 135.00 331 54.90 47.10 113 39.40 7 35.80 97 30.00 240 22.90 2 18.78 18	SITION: Lat Long 3	S 2204 E 1244	Selachophidium guentheri OPHICHHIDDE Merluccius paradoxus, male Notacanthus sexspinis Total DATE:14/ 2/94 GEAI start stop duratic TIME: 107:12:00 07:42:00 30 LOG:2564.40 2668.00 1.60 FDEPTH: 449 432 Towing dir: Wire of Sorted: 320 kg Total cas SPECIES Trachyripus scabrus	4.80 4.48 1.46 0.12 1133.72 R TYPE: BT No:1 on (min) Purpose Area cod GearCond Validity out:1400 m. Spetch: 871.47 CATCH/H weight n 700.00	96 96 96 2 32 PROJ POSITI code: 3 e: 2 .code: code: co	0.39 0.13 0.01 99.87 JECT STATIO ON:Lat S Long E *10 OHOUR: 17	N: 97 2134 1236 42.94 SAMP
start stop duration TIME :18:09:00 18:39:00 30 (mi LOC :2609.80 2611.20 1.40 FDEPTH: 382 376 Towing dir: Wire out Sorted: 197 Kg Total catch SPECIES Helicolenus dactylopterus Merluccius paradoxus, female Epigonus denticulatus Deepwater fish mixture Trachyrinus scabrus Todarodes sagittatus Selachophidium guentheri Aristeus varidens Colorinchus coelorinch. polli Lophius vomerinus Galeus polli Centrolophus niger Deania profundorum	TYPE: BT No:1 PO Area code: Area code GearCond.code Validity code: 1120 m Speed: 2' 1: 544.10 CA CATCH/HOUR weight number: 376.00 278 174.90 42 135.00 331 54.90 47.10 113 39.40 7 35.80 97 30.00 240 22.90 2 18.78 18 17.46 17.28 3	SITION: Lat Long 3	S 2204 E 1244 088.20 SAMP	Selachophidium guentheri OPHICHHIDDE Merluccius paradoxus, male Notacanthus sexspinis Total DATE:14/2/94 GEAN start stop duratie TIME:07:12:00 07:42:00 30 1.00 :2564.40 2668.00 1.60 FDEPTH: 449 432 BDEPTH: 449 432 BDEPTH: 449 432 Towing dir: * Wire compared to the start of th	4.80 4.48 1.46 0.12 1133.72 R TYPE: BT No:1 omin) Purpose Area cood GearCond Validity put:1400 m Spetch: 871.47 CATCH/H weight n	96 96 96 97 2 32 PROJ POSITI code: 3 e: 2 code: code: code: dode: 32 kn CATCH/ DUR 1 umbers 5264 574	0.39 0.13 0.01 99.87 DECT STATIO ON:Lat S Long E *10 WHOUR: 17	N: 97 2134 1236 42.94
start stop duration TIME :18:09:00 18:39:00 30 (mi LOG :2609.80 2611.20 1.40 FDEPTH: 382 376 Towing dir: Wire out Sorted: 197 Kg Total catch SPECIES Helicolenus dactylopterus Merluccius paradoxus, female Epigonus denticulatus Deepwater fish mixture Trachyrinus scabrus Todarodes sagittatus Selachophidium quentheri Aristeus varidens Coelorinchus coelorinch. polli Lophius vomerinus Galeus polli Centrolophus niger Deania profundorum Nezumia sp.	TYPE: BT No:1 PO In) Purpose code: Area code GearCond.code Validity code :1120 m Speed: 2' 1: 544.10 CA CATCH/HOUR weight number 376.00 278 174.90 42 136.00 331 54.90 47.10 113 39.40 7 35.80 97	3 Long 3 1 2 1: 2 2 1: 7 kn*1D TCH/HOUR: 1 1 OF TOT. C 5 4 34.55 6 16.07 8 12.50 4 4.33 2 3.38 2 3.38 2 2.76 8 12.10 0 2.10 0 2.50 0 2.76 0 2.50 0 2.76	S 2204 E 1244	Selachophidium guentheri OPHICHHIDDE Merluccius paradoxus, male Notacanthus sexspinis Total DATE:14/ 2/94 GEAN	4.80 4.48 1.46 0.12 1133.72 R TYPE: BT No:1 on (min) Purpose Area cod GearCond Validity out:1400 m. Spetch: 871.47 CATCH/H weight n 700.00 465.50 251.00 105.70	96 96 96 96 97 97 97 97 97 97 97 97 97 97 97 97 97	0.39 0.13 0.01 99.87 DECT STATIO ON:Lat S Long E *10 (HOUR: 17 OF TCT. C 40.16 26.71 14.40 6.06	N: 97 2134 1236 42.94 SAMP
start stop duration TIME :18:09:00 18:39:00 30 (mi LOG :2609.80 2611.20 1.40 FDEPTH: 382 376 Towing dir: Wire out Sorted: 197 Kg Total catch SPECIES Helicolenus dactylopterus Merluccius paradoxus, female Epigonus denticulatus Deepwater fish mixture Trachyrinus scabrus Todarodes sagittatheri Aristeus varidens Coelorinchus coelorinch. polli Lophius vomerinus Galeus polli Centrolophus niger Deania profundorum Nezumia sp. Merluccius paradoxus, male Raja sp.	TYPE: BT No:1 PO Area code: Area code GearCond.code Validity code :1120 m Speed: 2' 1: 544.10 CA CATCH/HOUR Weight number 376.00 278 174.90 42 135.00 331 54.90 47.10 113 39.40 7 35.80 97 30.00 240 22.90 24 18.78 18 17.46 17.29 3 15.60 57 12.60 3	3 Long 3 1 Long 3 7 kn*10 TCH/HOUR: 1 * OF TOT. C 5 4 34.55 6 16.07 8 12.50 4 33.62 2 3.62 2 3.62 2 1.38 0 2.10 0 2.10 0 2.50 0 1.73 6 1.60 0 2.50 0 2.10	S 2204 E 1244 088.20 SAMP 418	Selachophidium guentheri OPHICHHIDAE Merluccius paradoxus, male Notacanthus sexspinis Total DATE:14/2/94 GEAN Start stop duratic TIME:07:12:00 07:42:00 30 00 1.60 FDEPTH: 449 432 BDEPTH: 449 432 Towling dir: Wire of Sorted: 320 Kg Total cat SPECIES Trachyrinus scabrus Merluccius paradoxus, female Hoplostethus cadenati Lophius vomerinus Nezumia sp. Epigonus denticulatus	4.80 4.48 1.46 0.12 1133.72 R TYPE: BT No:1 on (min) Purpose Area cod GearCond Validity out:1400 m. Spetch: 871.47 CATCH/H Weight n 700.30 465.50 251.30 105.70 46.50 44.00	96 96 96 97 2 32 PROJ POSITI code: 3 e: 2 code: code: code: 32 kn CATCH/ DUR 1 CATCH/ DUR 1 S264 574 8850	0.39 0.13 0.01 99.87 DECT STATIO ON:Lat S Long E *10 (HOUR: 17 OF TCT. C 40.16 26.71 14.40 6.06 2.67 2.52	N: 97 2134 1236 42.94 SAMP
start stop duration TIME :18:09:00 18:39:00 30 (mi LOG :2609.80 2611.20 1.40 FDEPTH: 382 376 Towing dir: Wire out Sorted: 197 Kg Total catch SPECIES Helicolenus dactylopterus Merluccius paradoxus, female Epigonus denticulatus Deepwater fish mixture Trachyrinus scabrus Todarodes sagittautheri Aristeus varidens Coelorinchus coelorinch. polli Lophius vomerinus Galeus polli Centrolophus niger Deania profundorum Nezumia sp. Merluccius paradoxus, male Raja sp. Merluccius capensis, female Etmopterus lucifer	TYPE: BT No:1 PO Area code: Area code GearCond.code Validity code :1120 m Speed: 2: 1: 544.10 CA CATCH/HOUR weight number 376.00 278 174.90 42 135.00 331 54.90 47.10 113 39.40 7 35.80 97 30.00 240 22.90 22 18.78 18 17.46 17.28 3 15.60 57 12.60 3 12.06 2 11.68	3 Long 3 1 Long 3 7 kn*10 TCH/HOUR: 1 * OF TOT. C 5 4 34.55 6 16.07 8 12.50 4 4.33 2 3.62 2 3.62 2 3.62 2 0.276 8 2.11 0 2.10 0 2.76 0 2.10	S 2204 E 1244 088.20 SAMP 418	Selachophidium guentheri OPHICHHIDAE Merluccius paradoxus, male Notacanthus sexspinis Total DATE:14/2/94 GEAN	4.80 4.48 1.46 0.12 1133.72 R TYPE: BT No:1 on (min) Purpose Area cod GearCond Validity out:1400 m. Spetch: 871.47 CATCH/H Weight n 700.00 465.50 251.00 105.70 46.50 43.00 31.50	96 96 96 96 96 97 97 97 97 97 97 97 97 97 97 97 97 97	0.39 0.13 0.01 99.87 HECT STATIO ON:Lat SLONG E *10 CHOUR: 17 OF TCT. C 40.16 26.71 14.40 6.06 2.67 2.67 2.87 2.47 1.81	N: 97 2134 1236 42.94 SAMP
start stop duration TIME :18:09:00 18:39:00 30 (mi LOG :2609.80 2611.20 1.40 FDEPTH: 382 376 Towing dir: Wire out Sorted: 197 Kg Total catch SPECIES Helicolenus dactylopterus Merluccius paradoxus, female Epigonus denticulatus Deepwater fish mixture Trachyrinus scabrus Todarodes sagittatus Selachophidium quentheri Aristeus varidens Coelorinchus coelorinch. polli Lophius vomerinus Galeus polli Centrolophus niger Deania profundorum Nezumia sp. Merluccius paradoxus, male Raja sp. Merluccius capensis, female	TYPE: BT No:1 PO Area code: Area code GearCond.code Validity code.: S44.10 CA CATCH/HOUR Weight number 376.00 278 174.90 42 135.00 331 54.90 47.10 113 39.40 7 35.80 97 30.00 240 22.90 2 18.78 18 17.46 17.28 3 15.60 57 12.60 3 12.60 2 11.68	SITION: Lat Long 3	S 2204 E 1244 088.20 SAMP 418	Selachophidium guentheri OPHICHHIDAE Merluccius paradoxus, male Notacanthus sexspinis Total DATE:14/ 2/94 GEA	4.80 4.48 1.46 0.12 1133.72 R TYPE: BT No:1 on (min) Purpose Area cod GearCond Validity put:1400 m Sper tch: 871.47 CATCH/H weight n 700.00 465.50 251.00 105.70 46.50 44.00 43.00	96 96 96 96 97 97 97 97 97 97 97 97 97 97 97 97 97	0.39 0.13 0.01 99.87 DECT STATIO ON:Lat S Long E *10 /HOUR: 17 OF TCT. C 40.16 26.71 14.40 6.06 2.67 2.52 2.47 1.81	N: 97 2134 1236 42.94 SAMP 430 429
start stop duration TIME :18:09:00 18:39:00 30 (mi LOG :2609.80 2611.20 1.40 FDEPTH: 382 376 Towing dir: * Wire out Sorted: 197 Kg Total catch SPECIES Helicolenus dactylopterus Merluccius paradoxus, female Epigonus denticulatus Deepwater fish mixture Trachyrinus scabrus Todarodes sagittatus Selachophidium quentheri Aristeus varidens Coelorinchus coelorinch. polli Lophius vomerinus Galeus polli Centrolophus niger Deania profundorum Nezumia sp. Merluccius paradoxus. male Raja sp. Merluccius capensis, female Etmopterus capensis, female Etmopterus capensis Hoplostethus cadenati Coelorinchus facciatus	TYPE: BT No:1 PO Area code: Area code GearCond.code Validity code: 1120 m Speed: 2' 11: 544.10 CA CATCH/HOUR Weight number: 376.00 278 174.90 278 174.90 331 54.00 331 747.10 113 73.40 7 735.80 97 735.80 97 735.80 97 735.80 57 735.80	SITION: Lat Long 3	S 2204 E 1244 088.20 SAMP 418	Selachophidium guentheri OPHICHHIDAE Merluccius paradoxus, male Notacanthus sexspinis Total DATE:14/ 2/94 GEA	4.80 4.48 1.46 0.12 1133.72 R TYPE: BT No:1 on (min) Purpose Area cod GearCond Validity out:1400 m Spetch: 871.47 CATCH/H weight n 700.00 465.50 251.00 105.70 46.50 44.00 43.00 31.50 22.00 16.10 4.50	96 96 96 96 96 96 96 96 96 96 96 96 96 9	0.39 0.13 0.01 99.87 HECT STATIO ION:Lat S Long E *10 (HOUR: 17 OF TCT. C 40.16 26.71 14.40 6.06 2.67 2.52 2.47 1.81 1.26 0.92 0.92	N: 97 2134 1236 42.94 SAMP 430 429
start stop duration TIME :18:09:100 18:39:300 30 (mi LOG :2609.80 2611.20 1.40 FDEPTH: 382 376 Towing dir: * Wire out Sorted: 197 Kg Total catch SPECIES Helicolenus dactylopterus Merluccius paradoxus, female Epigonus denticulatus Deepwater fish mixture Trachyrinus scabrus Todarodes sagittatus Selachophidium guentheri Aristeus varidens Coelorinchus coelorinch. polli Lophius vomerinus Galeus polli Centrolophus niger Deania profundorum Nezumia sp. Merluccius paradoxus, male Raja sp. Merluccius capensis, female Etmopterus capensis Hoplostethus cadenati Coelorinchus fasciatus PORTUNIDAE Chlorophthalmus atlanticus	TYPE: BT No:1 PO Area code: Area code GearCond.code Validity code: 1120 m Speed: 2' 11: 544.10 CA CATCH/HOUR Weight number: 376.00 278 174.90 42.135.00 331 54.10 113 33.40 7.10 113 33.40 97 35.80 97 35.80 97 35.80 97 35.80 57 31.60 57 12.60 57 12.60 57 12.60 31 1.42 4 8.90 8.70 31 4.80 19 4.14 13 2.76 8	SITION: Lat Long 3 2 2 : : : 7 kn*10 TCH/HOUR: 1 1 * OF TOT. C 5 * 4 4 34 .55 6 6 16 .5 0.5 5 .05 6 8 2 .11 0 0 2 .76 6 8 2 .11 0 0 2 .76 6 8 2 .11 0 0 2 .10 0 1 .73 6 6 4 4 .11 8 2 .07 2 2 .10 5 4 4 2 .11 8 1 .07 2 2 .10 5 4 4 2 .11 8 2 .07 2 4 .05 5 4 0 .82 8 0 .80 8 4 0 .82 8 4 0 .25	S 2204 E 1244 088.20 SAMP 418 416 419 414 417	Selachophidium guentheri OPHICHHIDAE Merluccius paradoxus, male Notacanthus sexspinis Total DATE:14/ 2/94 GEA	4.80 4.48 1.46 0.12 1133.72 R TYPE: BT No:1 on (min) Purpose Area cod GearCond Validity put:1400 m. Spe- tch: 871.47 CATCH/H weight n 700.00 465.50 46.50 44.00 43.00 31.50 32.00 16.10 4.50 3.08 3.08	96 96 96 96 96 96 96 96 96 96 96 96 96 9	0.39 0.13 0.01 99.87 DECT STATION ON:Lat S Long E *10 *HOUR: 17 OF TCT. C 40.16 26.71 14.40 6.06 2.52 2.47 1.81 1.26 0.92 0.26 0.18 0.17	N: 97 2134 1236 42.94 SAMP 430 429
start stop duration TIME :18:09:00 18:39:00 30 (mi LOG :2609.80 2611.20 1.40 FDEPTH: 382 376 Towing dir: Wire out Sorted: 197 Kg Total catch SPECIES Helicolenus dactylopterus Merluccius paradoxus, female Epigonus denticulatus Deepwater fish mixture Trachyrinus scabrus Todarodes sagittatus Selachophidium guentheri Aristeus varidens Coelorinchus coelorinch. polli Lophius vomerinus Galeus polli Centrolophus niger Deania profundorum Nezumia sp. Merluccius paradoxus, male Raja sp. Merluccius capensis, female Etmopterus lucifer Genypterus capensis female Etmopterus capensis Hoplostethus cadenati Coelorinchus fasciatus PORTUNIDAE	TYPE: BT No:1 PO Area code: Area code GearCond.code Validity code: 1120 m Speed: 2' 11: 544.10 CA CATCH/HOUR Weight number: 376.00 278 174.90 42. 135.00 331 54.00 331 54.00 331 55.80 97 35.80 97 35.80 97 35.80 240 22.90 42 18.78 18 17.46 17.28 3 15.60 57 12.66 3 12.66 57 12.66 3 12.06 2 11.68 11.42 4 8.90 8.70 31 4.80 19 4.14 13 2.76 8	3 Long 3 1 Cong 3 1 Cong 3 1 Cong 1 C	S 2204 E 1244 088.20 SAMP 418	Selachophidium guentheri OPHICHHIDAE Merluccius paradoxus, male Notacanthus sexspinis Total DATE:14/ 2/94 GEAN	4.80 4.48 1.46 0.12 1133.72 R TYPE: BT No:1 on (min) Purpose Area cod GearCond Validity out:1400 m Spetch: 871.47 CATCH/H Weight n 700.00 465.50 251.00 105.70 46.50 42.00 43.00 31.50 22.00 16.10 4.50 3.08	96 96 96 96 96 96 96 96 96 96 96 96 96 9	0.39 0.13 0.01 99.87 JECT STATIO ON:Lat S Long E *10 OF TGT. C 40.16 26.71 14.40 6.06 2.67 2.67 1.81 1.26 0.92 0.26 0.18 0.17 0.15	N: 97 2134 1236 42.94 SAMP 430 429
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start stop duration TIME :18:09:00 18:39:00 30 (m) LOG :2609.80 2611.20 1.40 FDEPTH: 382 376 BDEPTH: 382 376 Towing dir: Wire out Sorted: 197 Kg Total catch SPECIES Helicolenus dactylopterus Merluccius paradoxus, female Epigonus denticulatus Deepwater fish mixture Trachyrinus scabrus Todarodes sagittatus Selachophidium quentheri Aristeus varidens Goelorinchus coelorinch. polli Lophius vomerinus Galeus polli Centrolophus niger Deania profundorum Nezumia sp. Merluccius paradoxus, male Raja sp. Merluccius capensis, female Etmopterus lucifer Genypterus capensis Hoplostethus cadenati Coelorinchus fasciatus PORTUNIDAE Chlorophthalmus atlanticus Merluccius capensis, male Total DATE:13/ 2/94 GEAR 7 Start stop duration TIME :19:55:00 20:25:00 30 (m) LOG :2618.40 2619.90 1.50 FDEPTH: 500 506 BDEPTH: 500 506 BDE	TYPE: BT No:1 PO Area code: Area code GearCond.code Validity code: 1120 m Speed: 2' 1: 544.10 CA CATCH/HOUR Weight number: 174.90 42 135.00 331 54.00 331 54.00 331 54.00 331 54.00 331 54.00 331 54.00 331 54.00 331 55.80 97 30.00 240 23.00 44 22.90 2 18.78 18 17.46 17.28 3 15.60 3 12.06 3 13.06 3 14.14 13 2.76 8 2.02 3 14.00 8 15.00 14.3 3 15.60 1	SITION: Lat Long 3	S 2204 E 1244 088.20 SAMP 418 416 419 414 417 415 ON: 94 S 2204 E 1241 987.48 SAMP 421	Selachophidium guentheri OPHICHHIDAE Merluccius paradoxus, male Notacanthus sexspinis Total DATE:14/2/94 GEAN	4.80 4.48 1.46 0.12 1133.72 R TYPE: BT No:1 0min) Purpose Area cod Gearcond Validity Dut:1400 m. Spei tch: 871.47 CATCH/H Weight n 700.00 465.50 251.00 105.70 46.50 4.90 31.50 22.00 16.10 4.50 3.00 31.50 22.00 16.10 4.50 3.00 31.50 22.00 1742.94 R TYPE: BT No:1 0min) Furpose Area cod Gearcond Validity Dut:1050 m. Spei tch: 160.86 CATCH/H Weight n 98.56 67.10 58.20 45.64 15.12	96 96 96 96 96 96 96 96 96 96 96 96 96 9	0.39 0.13 0.01 99.87 DECT STATIO ON:Lat S Long E *10 CHOUR: 17 OF TCT. C 40.16 26.71 14.40 6.06 2.67 2.52 2.47 1.81 1.26 0.92 0.18 0.17 0.15 0.12 0.11 0.03 100.00 DECT STATIO ON:Lat S Long E	N: 97 2134 1236 42.94 SAMP 430 429 428 431 N: 98 2133 1242 21.72 SAMP
start stop duration TIME :18:09:00 18:39:00 30 (mi LOG :2609.80 2511.20 1.40 FDEPTH: 382 376 BDEPTH: 382 376 Towing dir: Wire out Sorted: 197 Kg Total catch SPECIES Helicolenus dactylopterus Merluccius paradoxus, female Epigonus denticulatus Deepwater fish mixture Trachyrinus scabrus Todarodes sagittatus Selachophidium quentheri Aristeus varidens Coelorinchus coelorinch. polli Lophius vomerinus Galeus polli Centrolophus niger Deania profundorum Nezumia sp. Merluccius paradoxus, male Raja sp. Merluccius capensis, female Etmopterus lucifer Genypterus capensis Hoplostethus cadenati Coelorinchus fasciatus PORTUNIDAE Chlorophthalmus atlanticus Merluccius capensis, male Total DATE:13/ 2/94 GEART Start stop duration TIME :19:55:00 20:25:00 30 (mi LOG :2618.40 2619.90 1.50 FDEPTH: 500 506 BDEPTH: 500 506 BDEPTH: 500 506 BDEPTH: 500 506 SOFECIES Merluccius paradoxus, female Trachyrinus scabrus Noplostethus cadenati Todarodes sagittatus Varella blackford: Nezumia sp. Helicolenus dactylopterus Centrophorus squamosus Merluccius paradoxus, male Etmopterus lucifer Galeus polli	Purpose code: Area code GearCond. code Validity code: 1120 m Speed: 2' a: 544.10 CA CATCH/HOUR weight number 376.00 331 54.90 47.10 113 39.40 7 35.80 97 30.00 240 22.90 2 18.78 18 17.46 17.28 3 15.60 57 12.60 3 12.06 2 11.68 11.42 4 8.90 8.70 31 4.80 19 4.14 13 2.76 8 2.02 1089.20 Purpose code: 1500 m Speed: 2' a: 493.74 CA CATCH/HOUR weight number 2006: 1500 m Speed: 2' a: 493.74 CA CATCH/HOUR weight number 2006: 1500 m Speed: 2' a: 493.74 CA CATCH/HOUR weight number 2006: 1500 m Speed: 2' a: 493.74 CA CATCH/HOUR weight number 2008: 1500 m Speed: 2' a: 493.74 CA CATCH/HO	SITION: Lat Long 3	S 2204 E 1244 088.20 SAMP 418 416 419 414 417 415 ON: 94 S 2204 E 1241 987.48 SAMP 421	Selachophidium guentheri OPHICHHIDAE Merluccius paradoxus, male Notacanthus sexspinis Total DATE:14/ 2/94 GEAN	4.80 4.48 1.46 0.12 1133.72 R TYPE: BT No:1 cm Purpose Area cod CearCond Validity Validi	96 96 96 96 96 96 96 96 96 96 96 96 96 9	0.39 0.13 0.01 99.87 SECT STATIO ON:Lat S Long E *10 'HOUR: 17 OF TOT. C 40.16 26.71 14.40 6.06 2.67 2.52 2.47 1.81 1.26 0.92 0.26 0.18 0.17 0.15 0.12 0.11 0.03 100.00 SECT STATIO ON:Lat S Long E	N: 97 2134 1236 42.94 SAMP 430 429 428 431 N: 98 2133 1242 21.72 SAMP
start stop duration TIME :18:09:00 18:39:00 30 (mi LOG :2609.80 2511.20 1.40 FDEPTH: 382 376 BDEPTH: 382 376 Towing dir: Wire out Sorted: 197 Kg Total catch SPECIES Helicolenus dactylopterus Merluccius paradoxus, female Epigonus denticulatus Deepwater fish mixture Trachyrinus scabrus Todarodes sagittatus Selachophidium quentheri Aristeus varidens Coelorinchus coelorinch. polli Lophius vomerinus Galeus polli Centrolophus niger Deania profundorum Nezumia sp. Merluccius paradoxus, male Raja sp. Merluccius capensis, female Etmopterus lucifer Genypterus capensis Hoplostethus cadenati Coelorinchus fasciatus PORTUNIDAE Chlorophthalmus atlanticus Merluccius capensis, male Total DATE:13/ 2/94 GEART Start stop duration TIME:19:55:00 20:25:00 30 (mi LOG :2618.40 2619:90 1.50 FDEPTH: 500 506 BDEPTH: 500 506 BDEPTH: 500 506 BDEPTH: 500 506 BDEPTH: 500 506 BOEPTH: 500 506 BOEPTH	TYPE: BT No:1 PO Area code: Area code GearCond.code Validity code: 1120 m Speed: 2' 1: 544.10 CA CATCH/HOUR weight number: 136.00 331 54.90 47.10 113 39.40 7 35.80 97 30.00 240 22.90 2 18.78 18 17.46 17.28 3 15.60 57 12.60 3 12.06 2 11.68 11.42 4 8.90 8.70 31 4.14 13 2.76 8 2.02 TYPE: BT No:1 PO CATCH/HOUR weight number: Area code GearCond.code Validity code: 11500 m Speed: 2' 1089.20 TYPE: BT No:1 PO CATCH/HOUR weight number: Area code: Area code: GearCond.code Validity code: 1500 m Speed: 2' 1: 493.74 CA CATCH/HOUR Weight number: 305.60 133 58.20 249 57.77 14.00 8.00 11 25.74 7 14.00 8.00 11 25.74 7 14.00 8.00 1 8.00 11 25.74 7 14.00 8.00 1 8.00 7 8.546 1 8.00 3 8.60	SITION: Lat Long 3	S 2204 E 1244 088.20 SAMP 418 416 419 414 417 415 ON: 94 5 2204 E 1241 987.48 SAMP 421	Selachophidium guentheri OPHICHHIDAE Merluccius paradoxus, male Notacanthus sexspinis Total DATE:14/ 2/94 GEAN	4.80 4.48 1.46 0.12 1133.72 R TYPE: BT No:1 cm Purpose Area cod GearCond Validity cht: 871.47 CATCH/H Weight n 700 251.00 105.70 46.5.50 251.00 105.70 46.50 42.00 2.00 16.10 4.50 3.08 3.00 2.54 2.02 2.00 0.50 1742.94 R TYPE: BT No:1 cm Purpose Area cod GearCond cm	96 96 96 96 96 96 96 96 96 96 96 96 96 9	0.39 0.13 0.01 99.87 SECT STATIO ON:Lat S Long E *10 /HOUR: 17 OF TCT. C 40.16 26.71 14.40 6.06 2.67 2.52 2.47 1.81 1.26 0.92 0.26 0.18 0.17 0.15 0.12 0.11 0.03 100.00 SECT STATIO ON:Lat S Long E *10 HOUR: 3 OF TOT. C 30.64 20.66 18.09 14.19 4.70 3.92 2.64 2.00	N: 97 2134 1236 42.94 SAMP 430 429 428 431 N: 98 2133 1242 21.72 SAMP
start stop duration TIME :18:09:00 18:39:00 30 (m) LOG :2609.80 2511.20 1.40 FDEPTH: 382 376 BDEPTH: 382 376 Towing dir: Wire out Sorted: 197 Kg Total catch SPECIES Helicolenus dactylopterus Merluccius paradoxus, female Epigonus denticulatus Deepwater fish mixture Trachyrinus scabrus Todarodes sagittatus Selachophidium quentheri Aristeus varidens Coelorinchus coelorinch. polli Lophius vomerinus Galeus polli Centrolophus niger Deania profundorum Nezumia sp. Merluccius paradoxus, male Raja sp. Merluccius capensis, female Etmopterus lucifer Genypterus capensis Hoplostethus cadenati Coelorinchus fasciatus PORTUNIDAE Chlorophthalmus atlanticus Merluccius capensis, male Total DATE:13/ 2/94 GEART Start stop duration TIME:19:55:00 20:25:00 30 (m) LOG :2618.40 2619:90 1.50 FDEPTH: 500 506 BDEPTH: 500 506 BDEPTH: 500 506 BDEPTH: 500 506 BDEPTH: 500 506 BTOWING dir: 350* Wire out Sorted: 236 Kg Total catch SPECIES Merluccius paradoxus, female Trachyrinus scabrus Hoplostethus cadenati Todarodes sagittatus Yarella blackford: Nezumia sp. Helicolenus dactylopterus Centrophorus squamosus Merluccius paradoxus, male Etmopterus lucifer Galeus polli Galeus polli Galeus polli Galeus polli Epigonus denticulatus Lophius vomerinus Selachophidium quentheri Lithodes ferox Aristeus varidens	Purpose code: Area code GearCond. code Validity code	SITION: Lat Long 3	S 2204 E 1244 088.20 SAMP 418 416 419 414 417 415 ON: 94 5 2204 E 1241 987.48 SAMP 421	Selachophidium guentheri OPHICHHIDAE Merluccius paradoxus, male Notacanthus sexspinis Total DATE:14/ 2/94 GEAN	4.80 4.48 1.46 0.12 1133.72 R TYPE: BT No:1 cm Purpose Area cod GearCond Validity cht: 871.47 CATCH/H Weight n 700 251.00 105.70 46.5.50 251.00 105.70 46.50 22.00 43.00 2.54 2.02 2.00 0.50 1742.94 R TYPE: BT No:1 cm Purpose Area cod GearCond cm Purpose Area cod	96 96 96 96 96 96 96 96 96 96 96 96 96 9	0.39 0.13 0.01 99.87 SECT STATIO ON:Lat S Long E *10 'HOUR: 17 OF TCT. C 40.16 26.71 14.40 6.06 2.67 2.52 2.47 1.81 1.26 0.92 0.26 0.18 0.17 0.15 0.12 0.11 0.03 100.00 SECT STATIO ON:Lat S Long E	N: 97 2134 1236 42.94 SAMP 430 429 428 431 N: 98 2133 1242 21.72 SAMP
start stop duration TIME :18:09:00 18:39:00 30 (m) LOG :2609.80 2511.20 1.40 FDEPTH: 382 376 BDEPTH: 382 376 Towing dir: *Wire out Sorted: 197 Kg Total catch SPECIES Helicolenus dactylopterus Merluccius paradoxus, female Epigonus denticulatus Deepwater fish mixture Trachyrinus scabrus Todarodes sagittatus Selachophidium quentheri Aristeus varidens Coelorinchus coelorinch. polli Lophius vomerinus Galeus polli Centrolophus niger Deania profundorum Nezumia sp. Merluccius paradoxus, male Raja sp. Merluccius capensis, female Etmopterus lucifer Genypterus capensis Hoplostethus cadenati Coelorinchus fasciatus PORTUNIDAE Chlorophthalmus atlanticus Merluccius capensis, male Total DATE:13/ 2/94 GEART Start stop duration TIME :19:55:00 20:25:00 30 (m) LOG :2618.40 2619.90 1.50 FDEPTH: 500 506 BDEPTH: 500 506 BDEPTH: 500 506 BDEPTH: 500 506 BOEPTH: 500 506 BOE	Purpose code: Area code GearCond. code Validity code: 1120 m Speed: 2' 1: 544.10 CA CATCH/HOUR weight number 176.00 31 133.40 7 35.80 97 30.00 240 22.90 2 18.78 18 17.46 17.28 3 15.60 57 12.60 3 12.06 2 11.68 11.42 4 8.90 8.70 31 4.80 19 4.14 13 2.76 8 20 20 20 20 20 20 20	SITION: Lat Long 3	S 2204 E 1244 088.20 SAMP 418 416 419 414 417 415 ON: 94 5 2204 E 1241 987.48 SAMP 421	Selachophidium guentheri OPHICHHIDAE Merluccius paradoxus, male Notacanthus sexspinis Total DATE:14/ 2/94 GEAN	4.80 4.48 1.46 0.12 1133.72 R TYPE: BT No:1 cm (min) Purpose Area cod GearCond validity put:1400 m. Spetch: 871.47 CATCH/H weight n 700 465.50 251.00 105.70 46.55.30 105.70 46.50 42.00 22.00 45.50 1742.94 R TYPE: BT No:1 cm) Purpose Area cod GearCond validity put:1050 m Spetch: 160.86 CATCH/H weight n 98.56 67.10 58.20 45.64 15.12 12.60 8.50 6.44 3.16 3.08 3.16 3.08 3.16 3.16 3.08 3.16 3.16 3.08 3.16 3.16 3.08 3.16 3.08 3.16 3.16 3.08	96 96 96 96 96 96 96 96 96 96 96 96 96 9	0.39 0.13 0.01 99.87 DECT STATIO ON:Lat S Long E *10 CHOUR: 17 OF TCT. C 40.16 26.71 14.40 6.06 2.67 2.52 2.47 1.81 1.26 0.92 0.18 0.17 0.15 0.12 0.11 0.03 100.00 DECT STATIO ON:Lat S Long E	N: 97 2134 1236 42.94 SAMP 430 429 428 431 N: 98 2133 1242 21.72 SAMP
start stop duration TIME :18:09:00 18:39:00 30 (m) LOG :2609.80 26:11.20 1.40 FDEPTH: 382 376 BDEPTH: 382 376 Towing dir: Wire out Sorted: 197 Kg Total catch SPECIES Helicolenus dactylopterus Merluccius paradoxus, female Epigonus denticulatus Deepwater fish mixture Trachyrinus scabrus Todarodes sagittatus Selachophidium quentheri Aristeus varidens Coclorinchus coelorinch. polli Lophius vomerinus Galeus polli Centrolophus niger Deania profundorum Mezumia sp. Merluccius paradoxus, male Raja sp. Merluccius capensis, female Etmopterus lucifer Genypterus capensis, semale Total DATE:13/ 2/94 GEAR 7 Start stop duration TIME :19:55:00 20:25:00 30 (m) LOG :2618.40 26:19:90 1.50 FDEPTH: 500 506 BDEPTH: 500 506 BDEPT	Purpose code: Area code GearCond. code Validity code: 1120 m Speed: 2' 1: 544.10 CA CATCH/HOUR weight number 176.00 31 133.40 7 35.80 97 30.00 240 22.90 2 18.78 18 17.46 17.28 3 15.60 57 12.60 3 12.06 2 11.68 11.42 4 8.90 8.70 31 4.80 19 4.14 13 2.76 8 20 20 20 20 20 20 20	SITION: Lat Long 3 2 2 2 2 2 2 2 2 2	S 2204 E 1244 088.20 SAMP 418 416 419 414 417 415 ON: 94 5 2204 E 1241 987.48 SAMP 421	Selachophidium guentheri OPHICHHIDAE Merluccius paradoxus, male Notacanthus sexspinis Total DATE:14/2/94 GEAN	4.80 4.48 1.46 0.12 1133.72 R TYPE: BT No:1 cm Purpose Area cod Gearcond Validity Validity	96 96 96 96 96 96 96 96 96 96 96 96 96 9	0.39 0.13 0.01 99.87 DECT STATIO ON:Lat S Long E *10 CHOUR: 17 OF TCT. C 40.16 26.71 14.40 6.06 2.67 2.52 2.47 1.81 1.26 0.92 0.18 0.17 0.15 0.12 0.11 0.03 100.00 DECT STATIO ON:Lat S Long E *10 CHOUR: 3 OF TOT. C 30.64 20.66 18.09 14.19 4.70 3.92 2.64 2.00 0.98 0.98 0.98 0.98 0.98	N: 97 2134 1236 42.94 SAMP 430 429 428 431 N: 98 2133 1242 21.72 SAMP

Total

993.98

Total

100.30

		JECT STATION: 99	DATE:14/ 2/94 GE	PROJECT ST R TYPE: BT No:1 POSITION:Lat	
start stop duration TIME :11:20:00 11:50:00 30 (min) Purpose code: 3	ION:Lat S 2134 Long E 1249	start stop durati TIME :18:28:00 18:58:00 10	on Lon (min) Purpose code: 3	g E 1310
LOG :2686.90 2688.50 1.60 FDEPTH: 305 306 BDEPTH: 305 306	Area code : 2 GearCond.code: Validity code:		LOG :2734.10 2735.70 1.60 FDEPTH: 123 123 BDEPTH: 123 123	Area code : 2 GearCond.code: Validity code:	
Towing dir: * Wire out:	900 m Speed: 32 kr	n*10 /HOUR: 989.44	Towing dir: ' Wire Sorted: 47 Kg Total ca	out: 400 m Speed: 31 kn*10	369.80
Sorted: 169 Kg Total catch:			SPECIES 17 Ng 10tal Co	CATCH/HOUR & OF TOT	
SPECIES	weight numbers	OF TOT, C SAMP	Merluccius capensis, female Merluccius capensis, male	weight numbers 142.80 1344 38. 111.60 1104 30.	
Chlorophthalmus atlanticus Lophius vomerinus Pterothrissus belloci	325.40 19666 112.00 244 88.34 434	32.89 11.32 437 8.93	Sufficeobius bibarbatus Trachurus capensis	53.20 11566 14. 41.20 560 11.	39
Merluccius capensis, female Galeus polli	87.00 464 79.64 3462	8.79 441 8.05	Merluccius capensis, juveniles Chelidonichthys capensis	7.60 24 2.	90 461 06
Merluccius capensis, female Merluccius capensis, male	70.90 42 67.50 420 36.60 50	7.17 440 6.82 442 3.70 438	Squalus megalops Squilla acuelata calmani		49 24
Austroglossus microlepis Solenocera africana Dentex macrophthalmus	33.90 7370 21.00 74	3.43 2.12	Total	369.80 100.	02
Merluccius capensis, male Coelorinchus coelorinch, polli	14.30 12 13.50 314	1.45 439 1.36		DD0.7000 07	ATION: 104
Merluccius capensis, juveniles Coelorinchus fasciatus Todarodes sagittatus	11.40 824 8.70 390 6.14 44	1.15 436 0.88 0.62	start stop durat	AR TYPE: BT No:1 POSITION:Lation Lor	
Schedophilus huttoni Chelidonichthys capensis	4.90 2 3.00 44	0.50 0.30	TIME :22:00:00 22:30:00 30 LOG :2745.20 2746.80 1.60	(min) Purpose code: 3 Area code : 2	
Helicolenus dactylopterus Lophius vomerinus	2.54 210 1.20 60 1.04 14	0.26 0.12 0.11	FDEPTH: 120 119 BDEPTH: 120 119 Towing dir: 200' Wire	GearCond.code: Validity code: out: 375 m Speed: 31 kn*10	.**
OPHICHTHIDAE PORTUNIDAE	0.44 44	0.04	Sorted: 34 Kg Total c		68.36
Total	989.44	100.01	SPECIES	CATCH/HOUR % OF TO: weight numbers	C. C SAMP
			Sardinops ocellata Trachurus capensis	30.80 262 45 30.00 504 43	
			Merluccius capensis, female Squalus megalops	2.52 6 3	. 39 464 . 69
	pac	OJECT STATION: 100	Merluccius capensis, male Chelidonichthys capensis Engraulis capensis	0.84 2 1	. 40 463 . 23 . 35 465
start stop duration	YPE: BT No: 1 POSIT	rion:Lat S 2133 Long E 1254	Total	68.36	
TIME :13:15:00 13:45:00 30 (mi: LOG :2695.70 2697.30 1.60 FDEPTH: 287 286	n) Purpose code: 1 Area code : 2 GearCond.code:	5			
BDEPTH: 287 286 Towing dir: 360° Wire out	Validity code:	:n*10		AR TYPE: BT No:1 POSITION:La	
Sorted: 73 Kg Total catch	: 233.95 CATCI	H/HOUR: 467.90	start stop durat TIME :06:54:00 07:24:00 30 LGG :2795.10 2996.60 1.50	(min) Purpose code: 3	ng E 1259
SPECIES		1 OF TOT. C SAMP	FDEPTH: 156 155 BDEPTH: 156 155	GearCond.code: Validity code:	
Pterothrissus belloci Merluccius capensis, female	weight numbers 139.20 1408 72.00 464	29.75 15.39 450	Towing dir: * Wire Sorted: 51 Kg Total o	out: 500 m Speed: 30 kn*10 atch: 255.50 CATCH/HOUR:	511.00
Merluccius capensis, male Solenocera africana	58.40 368 56.00 13556	12.48 451 11.97	SPECIES	CATCH/HOUR	r. c samp
Austroglossus microlepis Merluccius capensis, female Galeus polli	50.20 308 28.80 22 13.92 640	10.73 443 6.16 446 2.97	Sufflogobius bibarbatus Merluccius capensis, male		. 36 . 02 469
Merluccius capensis, male Lophius vomerinus	11.70 10 8.80 32	2.50 447 1.88 444	Merluccius capensis, female Chatrabus melanurus	53.80 480 10 21.10 70 4	.53 468 .13
Merluccius capensis, juveniles Trachurus capensis	7.68 432 7.36 60 6.56 352	1.64 448 1.57 449 1.40	Merluccius capensis, juveniles Trachurus capensis, juvenile	4.90 160 0 0.00 10	.96 470 471
PORTUNIDAE Sufflogobius bibarbatus Neoharriotta pinnata	4.80 1808 1.62 2	1.03	Total	511.00 100	. 00
OPHICHTHIDAE Genypterus capensis	0.80 32 0.06 2	0.17 0.01 445		PROJECT S	TATION: 106
Total	467.90	100.00	start stop durat	CAR TYPE: BT No:1 POSITION:La Lion Lo	
			TIME :09:07:00 09:37:00 30 LOG :2808.40 2809.90 1.50 FDEPTH: 276 273	(min) Purposé code: 3 Area code : 2 GearCond.code:	
			BDEPTH: 276 273	Validity code: out: 850 m Speed: 31 kn*10	
DATE:14/ 2/94 GEAR T	PR TYPE: BT No:1 POSI	OJECT STATION: 101 TION:Lat S 2131	Sorted: 149 Kg Total o	eatch: 222.47 CATCH/HOUR:	444.94
start stop duration TIME :15:04:00 15:34:00 30 (mi		Long E 1300	SPECIES	CATCH/HOUR OF TO weight numbers	
LOG :2704.70 2706.40 1.70 FDEPTH: 246 246 BDEPTH: 246 246	Area code : GearCond.code: Validity code:	3	Merluccius capensis, female Merluccius capensis, male Sufflogobius bibarbatus	99.10 206 22	.73 472 .27 473 .82
Towing dir: 360° Wire out	:: 740 m Speed: 33		Dentex macrophthalmus Austroglossus microlepis	81.70 322 18 21.60 104 4	.36 477 .85 475
Sorted: 67 Kg Total catch	a: 470.82 CATC	H/HOUR: 941.64	Trachurus capensis Pterothrissus belloci Todarodes sagittatus	2,40 36 0	.27 478 .54 .39
SPECIES	CATCH/HOUR weight numbers	t OF TOT. C SAMP	Merluccius capensis, juveniles Solenocera africana	1.38 90 0 1.02 318 0	.31 474 .23
Trachurus capensis Merluccius capensis, female	339.50 3478	36.05 454	Lophius vomerinus	0.56 4 3	
Merluccius capensis, male Sufflogobius bibarbatus	323.40 2016	34.34 453	CRABS		.13 476 .09
	222.60 1386 41.72 12270 5.88 14	23.64 452 4.43 0.62	C R A B S Total	0.42 54 0	
Chelidonichthys capensis FORTUNIDAE Merluccius capensis, juveniles	222.60 1386 41.72 12270 5.88 14 5.18 578 1.96 112	23.64 452 4.43 0.62 0.55 0.21 455		0.42 54 0 444.94 99	.09
Chelidonichthys capensis FORTUNIDAE	222.60 1386 41.72 12270 5.88 14 5.18 378	23.64 452 4.43 0.62 0.55 0.21 455 0.09 0.06	Total DATE: 15/ 2/94 G start stop dura	0.42 54 0 444.94 99 PROJECT S PROJECT S PROJECT S PROJECT S PROJECT S PROJECT S	.09 .99 TATION: 107
Chelidonichthys capensis FORTUNIDAE Merluccius capensis, juveniles Todarodes sagittatus	222.60 1386 41.72 12270 5.88 14 5.18 378 1.96 112 C.84 28	23.64 452 4.43 0.62 0.55 0.21 455 0.09	Total DATE:15/ 2/94 G start stop dura TIME :11:16:00 11:46:00 30 LOG :2819.40 2820.80 1.4	0.42 54 0 444.94 99 PROJECT S EAR TYPE: BT No:1 POSITION:Le tion	.09 .99 TATION: 107 t s 2057
Chelidonichthys capensis FORTUNIDAE Merluccius capensis, juveniles Todarodes sagittatus CPHIDIIDAE	222.60 1386 41.72 12270 5.88 14 5.18 578 1.96 112 C.84 28 C.56 14	23.64 452 4.43 0.62 0.55 0.21 455 0.09 0.06	DATE:15/ 2/94 G start stop dura TIME :11:16:00 11:45:00 30 LOG :2819.40 2820.80 1.4 FDEPTH: 329 323 BDEPTH: 729 323	0.42 54 0 444.94 999 PROJECT S	.09 .99 TATION: 107 t s 2057
Chelidonichthys capensis FORTUNIDAE Merluccius capensis, juveniles Todarodes sagittatus CPHIDIIDAE	222.60 1386 41.72 12270 5.88 14 5.18 578 1.96 112 C.84 28 C.56 14	23.64 452 4.43 0.62 0.55 0.21 455 0.09 0.06	DATE:15/ 2/94 G start stop dura TIME :11:16:00 11:45:00 30 LOG :2819.40 2820.80 1.4 FDEPTH: 329 323 BDEPTH: 729 323	0.42 54 0 444.94 995 PROJECT S	.09 .99 TATION: 107 t S 2057 ng E 1243
Chelidonichthys capensis FORTUNIDAE Merluccius capensis, juveniles Todarodes sagittatus CPHIDIIDAE	222.60 1386 41.72 12270 5.88 14 5.18 578 1.95 112 C.84 28 0.56 14	23.64 452 4.43 0.62 0.55 0.21 455 0.09 0.06	DATE: i5/ 2/94 G start stop dura TIME: i1::16:00 11:46:00 30 LOG: 2819.40 2820.80 1.4 FDEPTH: 329 323 BDEPTH: 729 323 Towing dir: 340° Wire	0.42 54 0 444.94 99 PROJECT S Area code: 2 Gearcond.code: 2 Gearcond.code: 3 Area code: 3 Area code: 2 Gearcond.code: 3 Catch: 1000 m Speed: 31 kn*10 Catch: 333.51 CATCH/HOUR: CATCH/HOUR % OF TO Weight numbers	.09 .99 TATION: 107 t s 2057 ng E 1243
Chelidonichthys capensis FORTUNIDAE Merluccius capensis, juveniles Todarodes sagittatus CPHIDIIDAE Total DATE:14/ 2/94 Start stop duration	222.60 1386 41.72 12270 5.88 14 5.18 578 1.96 112 C.84 28 C.55 14 941.64	23.64 452 4.43 0.62 0.55 0.21 0.09 0.06 99.95 ROJECT STATION: 102 (TION:lat S 2130 Long E 1308	DATE: 15 / 2/94 G start stop dura TIME: 11:16:00 11:46:00 30 LOG: 22819.40 2820.80 1.4 FDEPTH: 329 323 BDEPTH: 729 323 Towing dir: 340* Wire Sorted: 315 kg Total SPECIES Merluccius capensis, temale Lophius vomerinus	0.42 54 0 444.94 99 PROJECT S Area code: 3 Area code: 3 Area code: 4 Carcond.code: 4 Catch: 333.51 CATCH/HOUR: 4 CATCH/HOUR Nor TO Weight numbers 217.10 190 32 105.52 116 13	.09 .99 TATION: 107 t s 2057 nng E 1243
Chelidonichthys capensis FORTUNIDAE Merluccius capensis, juveniles Todarodes sagittatus CPHIDIIDAE Total DATE:14/ 2/94 Start stop duration TIME :17:03:00 17:33:00 30 (m. LOG :2715.60 2717.10 1.50	222.60 1386 41.72 12270 5.88 14 5.18 578 1.96 112 6.84 28 6.55 14 941.64 PFTYPE: BT No:1 PFTYPE: BT No:1 PGST 1n) Purpose code: Area code: Area code:	23.64 452 4.43 0.62 0.55 0.21 455 0.09 0.06 99.99	DATE:15/ 2/94 G start stop dura TIME:11:16:00 11:45:00 30 LOG:2819.40 2820.80 1.4 FDEPTH: 329 323 BDEPTH: 729 323 Towing dir: 340* Wire Sorted: 315 kg Total SPECIES Merluccius capensis, female Lophius vomerinus Chlorophthalmus atlanticus Merluccius capensis, male	0.42 54 0 444.94 99 PROJECT S Area code Coarcond.code: 3 2 GearCond.code: 3 2 GearCond.code: 3 xn*10 Catch: 333.51 CATCH/HOUR: CATCH/HOUR NOT CATCH/HOUR: PROJECT S CATCH/HOUR NOT TO Weight numbers 217.10 190 32 105.52 116 15 105.20 2690 15 81.70 108 11	.09 .99 .74TION: 107 t s 2057 rng E 1243 .667.02 TT. C SAMP
Chelidonichthys capensis FORTUNIDAE Merluccius capensis, juveniles Todarodes sagittatus CPHIDIIDAE Total DATE:14/ 2/94 GEAR start stop duration TIME :17:03:00 17:33:00 30 (m. LOG :2715.60 2717.10 1.50 FDEPTH: 161 155 EDEPTH: 161 155	222.60 1386 41.72 12270 5.88 14 5.18 578 1.96 112 6.84 28 6.56 14 941.64 PFTYPE: BT No:1 PGST 1n) Purpose code: Area code: GearCond.code: Validity code: Validity code:	23.64 452 4.43 0.62 0.55 0.21 0.09 0.06 99.95 ROJECT STATION: 102 TITION:1at S 2130 Long E 1308 3 2	DATE:15/ 2/94 start stop dura TIME:11:16:00 11:46:00 30 1.0G :2819.40 2820.80 1.4 FDEPTH: 329 323 BDEPTH: 329 323 Towing dir: 340° Wire Sorted: 315 kg Total SPECIES Merluccius capensis, female Lophius vomerinus Chlorophthalmus atlanticus Merluccius capensis, male Galeus polli Helicolenus dactylopterus Schedophilus huttoni	0.42 54 0 444.94 995 PROJECT S PROJECT S PROJECT S CAR TYPE: BT No:1 POSITION: La Inn (min) Purpose code: 3 GearCond.code: Validity code: Validity code: S cut:1000 m Speed: 31 kn*10 Patch: 333.51 CATCH/HOUR: CATCH/HOUR & OF TO weight numbers 217.10 190 32 105.52 116 19 105.52 2690 19 81.70 108 12 52.40 1056 18.80 1416 17 17.00 6	.09 .99 .99 .74 .75 .75 .75 .75 .75 .75 .75 .75 .75 .75
Chelidonichthys capensis FORTUNIDAE Merluccius capensis, juveniles Todalodes sagittatus CPHIDIIDAE Total DATE:14/2/94 Start stop duration TIME :17:03:00 17:33:00 30 (m. LOG :2715.60 2717.10 1.50 FDEPETH: 161 155	222.60 1386 41.72 12270 5.88 14 5.18 578 1.96 112 6.84 28 6.56 14 941.64 PFTYPE: BT No:1 POST Area code: Area code: GearCond.code: Validity code: Validity code: 510 m Speed: 30	23.64 452 4.43 0.62 0.55 0.21 0.09 0.06 99.95 ROJECT STATION: 102 TITION:1at S 2130 Long E 1308 3 2	DATE:15/ 2/94 start stop dura TIME:11:16:00 11:46:00 30 1.0G :2819.40 2820.80 1.4 FDEPTH: 329 323 BDEPTH: 329 323 Towing dir: 340° Wire Sorted: 315 kg Total SPECIES Merluccius capensis, female Lophius vomerinus Chlorophthalmus atlanticus Merluccius capensis, male Galeus polli Helicolenus dactylopterus Schedophilus huttoni Deepwater fish mixture Raja straeleni	0.42 54 0 444.94 995 PROJECT S Area code: Carchodo code: Carch/HOUR: CARCH/HOUR: CARCH/HOUR & OF TO Weight numbers 217.10 190 33 105.52 116 11 105.52 126 11 105.52 126 11 105.52 126 11 105.52 126 11 105.52 126 11 105.52 126 126 127.00 6 14.32 128 8.16 8	.09 .99 .99 .70 .70 .70 .70 .70 .70 .70 .70 .70 .70
Chelidonichthys capensis FORTUNIDAE Merluccius capensis, juveniles Todardoses sagittatus CPHIDIIDAE Total DATE:14/ 2/94 GEAR Start stop duration TIME :17:03:00 17:33:00 30 (m. LOG :2715.60 2717.10 1.50 FDEPTH: 161 155 EDEPTH: 161 155 Towing dir: 10* Wire cut Sorted: 156 Kg Total catc	222.60 1386 41.72 12270 5.88 14 5.18 578 1.96 112 6.84 28 6.56 14 941.64 PITYPE: BT No:1 PGST 1n) Purpose code: Area code GearCond.code: Validity code: t: 510 m Speed: 30 h: 2887.27 CATC	23.64 452 4.43 0.62 0.55 0.21 455 0.09 0.06 99.99 ROJECT STATION: 102 (TION:Lat S 2130 Long E 1308 3 2 kn*10 CH/HOUR: 5774.54	DATE:15/ 2/94 start stop dura TIME :11:16:00 11:46:00 30 LOG :2819.40 2820.80 1.4 FDEPTH: 329 323 BDEPTH: 729 323 Towing dir: 340° Wire Sorted: 315 kg Total SPECIES Merluccius capensis, female Lophius vomerinus Chlorophthalmus atlanticus Merluccius capensis, male Galeus polli Helicolenus dactylopterus Schedophilus huttoni Deepwater fish mixture	0.42 54 0 444.94 99 PROJECT S PROJECT S PROJECT S AREA TYPE: BT No:1 POSITION:La Ion (min) Purpose code: 3 AREA code: 2 GearCond.code: yalidity ccde: Palidity ccde: 1 kn*10 Catch: 333.51 CATCH/HOUR: CATCH/HOUR & OF TO Weight numbers 217.10 190 33 105.52 116 15 105.20 3690 15 81.70 108 15 2.40 1056 5 18.80 1416 17.00 6 14.32 8.16 8 6.00 128 6.00 16 6.00 16	.09 .99 TATION: 107 t
Chelidonichthys capensis FORTUNIDAE Merluccius capensis, juveniles Todarodes sagittatus CPHIDIIDAE Total DATE:14/ 2/94 Start stop duration TIME :17:03:00 17:33:00 30 (m. LOC :2715.60 2717.10 1.50 FDEPTH: 161 155 FDEPTH: 161 155 Towing dir: 10° Wire cut Sorted: 156 Kg Total catc SPECIES Trachurus capensis	222.60 1386 41.72 12270 5.88 14 5.18 578 1.95 112 C.84 28 0.56 14 941.64 PFTYPE: BT No:1 POSI 1n) Purpose code: Area code : GearCond.code: Validity code: t: 510 m Speed: 30 h: 2887.27 CATC CATCH/HOUR Weight numbers 4590.80 53130	23.64 452 4.43 0.62 0.55 0.21 455 0.06 99.99 ROJECT STATION: 102 TTION:Lat S 2130 Long E 1308 3 2 kn*10 CH/HOUR: 5774.54 * OF TOT. C SAMP 79.50 458	DATE: 15 / 2/94 start stop dura TIME : 11:16:00 11:45:00 30 LOG : 2819.40 2820.80 1.4 FDEPTH: 329 323 BDEPTH: 329 323 Towing dir: 340* Wire Sorted: 315 kg Total SPECIES Merluccius capensis, temale Lophius vomerinus Chlorophthalmus atlanticus Merluccius capensis, male Galeus polli Helicolenus dactylopterus Schedophilus huttoni Deepwater fish mixture Raja straeleni Coelorinchus fasciatus Trachurus capensis Austroglossus microlepis MYCTOPHIDAE Hexanchus griseus	0.42 54 0 444.94 995 PROJECT S ATTYPE: BT No:1 POSITION: La (min) Purpose code: 3 GearCond.code: Validity code: Validity code: 3 CATCH/HOUR \$ OF TO Weight numbers 217.10 190 33 105.52 116 15 105.52 116 15 105.52 116 15 105.52 116 16 117.00 108 12 52.40 1086 1416 17.00 6 14.32 8.16 8 6.00 128 6 6.00 16 6 4.30 10 4.72 920 6 4.72 920 6	.09 .99 .99 .09 .09 .09 .00 .00
Chelidonichthys capensis FORTUNIDAE Merluccius capensis, juveniles Todarodes sagittatus CPHIDIIDAE Total DATE:14/ 2/94 CEAR Start stop duration TIME :17:03:00 17:33:00 30 (m. LOC :2715.60 2717.10 1.50 FDEPTH: 161 1.55 EDEPTH: 161 1.55 Towing dir: 10° Wire cut Sorted: 156 Kg Total catc SPECIES Trachurus capensis Merluccius capensis, male Merluccius capensis, female	222.60 1386 41.72 12270 5.88 14 5.18 578 1.95 112 C.84 28 C.56 14 941.64 TYPE: BT No:1 POST In) Purpose code: Area code: Validity code: Validity code: Validity code: Validity code: CearCond.code: Validity code: CatCH/HOUR Weight numbers 4590.80 53130 699.20 8280 3369.80 3348	23.64 452 4.43 0.62 0.55 0.21 0.09 0.06 99.99 ROJECT STATION: 102 TTION:Lat S 2130 Long E 1308 3 2 kn*10 CH/HOUR: 5774.54 * OF TOT. C SAMP 79.50 458 12.11 457 6.40 456	DATE: 15 / 2/94 start stop dura TIME : 11:16:00 11:46:00 30 LOG : 28:19.40 2820.80 1.4 FDEPTH: 329 323 BDEPTH: 329 323 Towing dir: 340* Wire Sorted: 315 kg Total SPECIES Merluccius capensis, female Lophius vomerinus Chlorophthalmus atlanticus Merluccius capensis, male Galeus polli Helicolenus dactylopterus Schedophilus huttoni Deepwater fish mixture Raja straeleni Coelorinchus fasciatus Trachurus capensis Austroglossus microlepis MYCTOPHIDAE Hexanchus griseus Shrimps, small, non comm. Todarodes sadittutus	0.42 54 0 444.94 99 PROJECT S PAR TYPE: BT No:1 POSITION:Lation (min) Purpose code: 3 Area code: 2 GearCond.code: Validity code: Validity code: Validity code: Validity code: Cout:1000 m Speed: 31 kn*10 Part CATCH/HOUR to Tax CATCH/HOUR: CATCH/HOUR: 105.52 116 190 32 195.52 116 195.20 2690 19 195.20 195.20 195 18.80 1416 17.00 6 18.80 1416 17.00 6 14.32 8.16 8 6.00 128 6.00 128 6.00 128 6.00 16 6 0 14.72 920 6 4.70 92 12.24 920 6 1	.09 .99 .99 .71 .07 .07 .07 .08 .08 .08 .09 .09 .09 .09 .09 .09 .09 .09 .09 .09
Chelidonichthys capensis FORTUNIDAE Merluccius capensis, juveniles Todardoses sagittatus CPHIDIIDAE Total DATE:14/ 2/94 GEAR Start stop duration TIME :17:03:00 17:33:00 30 (m. LOG :2715.60 2717.10 1.50 FDEPTH: 161 155 FDEPTH: 161 155 Towing dir: 10* Wire cut Sorted: 156 Kg Total catc SPECIES Trachurus capensis Merluccius capensis Merluccius capensis. male	222.60 1386 41.72 12270 5.88 14 5.18 578 1.96 112 6.84 28 6.56 14 941.64 TYPE: BT No:1 PGSI 1n) Purpose code: Area code: GearCond.code: Validity code: Validity code: 1510 m Speed: 30 h: 2887.27 CATC CATCH/HOUR Weight numbers 4590.80 53130 699.20 38980 369.80 3343 58.20 14536 26.40 110 20.60 35	23.64 452 4.43 0.62 0.55 0.21 0.09 0.06 99.95 ROJECT STATION: 102 TITION:1at S 2130 Long E 1308 3 2 kn*10 CH/HOUR: 5774.54 4 OF TOT. C SAMP 79.50 456 12.11 457 6.40 456 1.01 0.466 0.36	DATE:15/ 2/94 start stop dura TIME:11:16:00 11:45:00 30 LOG:2819.40 2820 80 1.4 FDEPTH: 329 323 BDEPTH: 729 323 Towing dir: 340° Wire Sorted: 315 kg Total SPECIES Merluccius capensis, female Lophius vomerinus Chlorophthalmus atlanticus Merluccius capensis, male Galeus polli Helicolenus dactylopterus Schedophilus huttoni Deepwater fish mixture Raja straeleni Coelorinchus fasciatus Trachurus capensis Austroglossus microlepis MYCTOPHIDAE MEXANCHUS GREEN Shrimps, small, non comm. Todarodes sagiitätus Todarodes sagiitätus PORTUNIDAE Cenypterus capensis	0.42 54 0 444.94 99 PROJECT S	.09 .99 .99 TATION: 107 t \$ 2057 ng E 1243 6667.02 T. C SAMP .55 480 .82 481 .77 .36 .82 481 .77 .36 .37 .39 .39 .39 .30 .31 .31 .34 .31 .34 .31 .34 .31 .34
Chelidonichtys capensis FORTUNIDAE Merluccius capensis, juveniles Todarodes sagittatus CPHIDIIDAE Total DATE:14/ 2/94	222.60 1386 41.72 12270 5.88 14 5.18 578 1.96 112 6.84 28 6.56 14 941.64 PTYPE: BT No:1 PGSI 1n) Purpose code: Area code: GearCond.code: Validity code: Validity code: 510 m Speed: 30 h: 2887.27 CATC CATCH/HOUR weight numbers 4590.80 5316 639.20 369.80 3343 58.20 14536 26.40 110 20.60 35 7.72 253 1.10 36	23.64 452 4.43 0.62 0.55 0.21 0.09 0.06 99.95 ROJECT STATION: 102 TITION:1at S 2130 Long E 1308 3 2 kn*10 CH/HOUR: 5774.54 • OF TOT. C SAMP 79.50 458 12.11 457 6.40 456 0.36 0.13 0.02	DATE:15/ 2/94 start stop dura TIME:11:16:00 11:45:00 30 LOG: 2219.40 220.80 1.4 FDEPTH: 329 323 BDEPTH: 729 323 Towing dir: 340° Wire Sorted: 315 Kg Total SPECIES Merluccius capensis, female Lophius vomerinus Chlorophthalmus atlanticus Merluccius capensis, male Galeus polli Helicolenus dactylopterus Schedophilus huttoni Deepwater fish mixture Raja straeleni Coelorinchus fasciatus Trachurus capensis Austroglossus microlepis MYCTOPHIDAE Hexanchus griseus Shrimps, small, non comm. Todarodes saglitatus PORTUNIDAE Cenypterus capensis Nezumia sp. Coelorinchus ccelorinch, polli	0.42 54 0 444.94 99 PROJECT S PROJ	.09 .99 .99 .77 .77 .77 .77 .77 .77 .78 .77 .77 .78 .77 .79 .78 .77 .79 .79 .79 .70 .70 .70 .71 .71 .72 .72 .73 .74 .75 .77 .75 .77 .77 .77 .78 .78 .79 .79 .70 .70 .70 .70 .71 .71 .72 .73 .70 .70 .70 .70 .71 .71 .72 .73 .73 .74 .75 .75 .77 .78 .78 .79 .70 .70 .70 .70 .70 .70 .70 .70 .70 .70
Chelidonichtys capensis FORTUNIDAE Merluccius capensis, juveniles Todarodes sagittatus CPHIDIIDAE Total DATE:14/ 2/94	222.60 1386 41.72 12270 5.88 14 5.18 578 1.95 112 C.84 28 C.56 14 941.64 TYPE: BT No:1 POSI are code: Validity code: Validit	23.64 452 4.43 0.62 0.55 0.21 0.09 0.06 99.95 ROJECT STATION: 102 TITION:Lat \$ 2130 Long E 1308 3 2 kn*10 CH/HOUR: 5774.54 • OF TOT. C SAMP 79.50 458 12.11 457 6.40 456 1.01 0.46 0.36 0.13	DATE: i5/ 2/94 start stop dura TIME: 11:16:00 11:45:00 30 LOG: 2819.40 2820.80 1.4 FDEPTH: 329 323 BDEPTH: 329 323 Towing dir: 340* Wire Sorted: 315 Kg Total SPECIES Merluccius capensis, female Lophius vomerinus Chlorophthalmus atlanticus Merluccius capensis, male Galeus polli Helicolenus dactylopterus Schedophilus huttoni Deepwater fish mixture Raja straeleni Coelorinchus fasciatus Trachurus capensis Austroglossus microlepis MYCTOPHIDAE Hexanchus griseus Shrimps, small, non comm. Todarodes sagittātus Todarodes sagittātus Todarodes sagittātus PORTUNIDAE Cenypterus capensis Nezumia sp.	0.42 54 0 444.94 995 PROJECT S PROJECT S PROJECT S PROJECT S CAR TYPE: BT No:1 POSITION: La (min) Purpose code: 3 GearCond.code: Validity code: Validity code: S Cut:1000 m Speed: 31 kn*10 CATCH/HOUR: VOF TO Weight numbers 217.10 199 32 105.52 116 11 105.20 2690 11 81.70 108 12 52.40 1056 18.80 1416 17.00 6 14.32 8 8.16 8 6.00 128 6 6.00 128 80 6 6.00 128 80 6 6.00 128 80 6 6.00 128 80 6 6.00 128 80 6 6.00 128 80 6 6.00 128 80 6 6.00 128 80 6 6.00 128 80 6 6.00 128 80 6 6.00 128 80 6 6.00 128 80 6 6.00 128 80 6 6.00 128 60 60 6.00 128 6	.09 .99 .99 TATION: 107 t \$ 2057 ng E 1243 667.02 T. C SAMP .55 480 .82 481 .77 .36 .82 481 .77 .37 .38 .39 .39 .39 .39 .30 .31 .31 .31 .31 .31 .31 .33 .33 .33 .33

Total

669.10

100.32

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DATE: 15/ 2/94 GEAR TYP	PE: BT No:	PROJE	CT STATION	N: 108 2059
start stop duration			Long E	1336
TIME :13:41:00 14:11:00 30 (min) LOG :2832.70 2834.20 1.50	Purpose Area co	code: 3 de :2		
FDEPTH: 371 366	GearCon	d.code:		
BDEPTH: 371 366 Towing dir: 270° Wire out:1	Validit	y code:	10	•
Sorted: 651 Kg Total catch:				74.48
Sorted: 651 kg lotal catch:	737.24	CRICHY	100R: 141	74,40
PECIES	CATCH/ weight		F TOT. C	SAMP
erluccius capensis, female	945.80	690	64.14	487
erluccius capensis, male elicolenus dactylopterus	219.48 107.70	200 1800	14.89 7.30	486
ophius vomerinus	63.10	52	4.28	485
odarodes sagittatus	48.60 30.00	90 390	3.30 2.03	
aleus polli ezumia sp.	21.00	690	1.42	
risteus varidens	11.70	3000	0.79	•••
enypterus capensis oelorinchus fasciatus	9.00 5.10	8 180	0.61 0.35	484
aja confundens	3.60	30	0.24	
enopsis conchifer	2.10	2	0.14	488
erluccius paradoxus, female qualus megalops	2.00	6 2	0.14 0.14	400
YCTOPHIDAE	1.80	300	0.12	
oelorinchus coelorinch, polli	1.50	90	0.10	
otal	1474.48	-	99.99	
		ד חפם	ECT STATIO	N: 100
DATE: 15/ 2/94 GEAR TY	PE: BT No:		ON:Lat S	2059
start stop duration TIME :16:04:00 16:34:00 30 (min) Purpose	code: 3	Long E	1228
LOG : 2844.90 2846.70 1.80	Area co	de : 2		
FDEPTH: 453 440	GearCon	d.code:		
BDEPTH: 453 440 Towing dir: 232* Wire out:	Validit 1410 m Sp	y coae: eed: 36 kn:	10	
·				
Sorted: 259 Kg Total catch:	/15.74	CATCH/	HOUR: 14	31.48
PECIES	CATCH/ weight		OF TOT. C	SAMP
erluccius paradoxus, female	weight 433.10	numbers 678	30.26	SAMP
erluccius paradoxus, female rachyrinus scabrus	weight 433.10 396.80	numbers 678 2966	30.26 27.72	
erluccius paradoxus, female rachyrinus scabrus entrophorus granulosus	weight 433.10 396.80 160.00	numbers 678 2966 10	30.26 27.72 11.18	
erluccius paradoxus, female rachyrinus scabrus entrophorus granulosus hrimps, small, non comm.	weight 433.10 396.80 160.00 144.64 83.20	numbers 678 2966 10 96426 640	30.26 27.72 11.18 10.10 5.81	
erluccius paradoxus, female rachyrinus scabrus entrophorus granulosus hrimps, small, non comm. elicolenus dactylopterus ezumia sp.	weight 433.10 396.80 160.00 144.64 83.20 51.52	numbers 678 2966 10 96426	30.26 27.72 11.18 10.10 5.81 3.60	
erluccius paradoxus, female rachyrinus scabrus entrophorus granulosus hrimps, small, non comm. elicolenus dactylopterus ezumia sp. ophius vomerinus	weight 433.10 396.80 160.00 144.64 83.20	numbers 678 2966 10 96426 640	30.26 27.72 11.18 10.10 5.81 3.60 2.71	
erluccius paradoxus, female rachyrinus scabrus entrophorus granulosus hrimps, small, non comm. elicolenus dactylopterus ezumia sp. ophius vomerinus eania profundorum aleus polli	weight 433.10 396.80 160.00 144.64 83.20 51.52 38.80 32.00 30.08	numbers 678 2966 10 96426 640 2304	30.26 27.72 11.18 10.10 5.81 3.60 2.71 2.24 2.10	
erluccius paradoxus, female rachyrinus scabrus tentrophorus granulosus chrimps, small, non comm. elicolenus dactylopterus ezumia sp. ophius vomerinus veania profundorum aleus polli toplostethus melanopus	weight 433.10 396.80 160.00 144.64 83.20 51.52 38.80 32.00 30.08 22.72	numbers 678 2966 10 96426 640 2304	30.26 27.72 11.18 10.10 5.81 3.60 2.71 2.24 2.10 1.59	
erluccius paradoxus, female rachyrinus scabrus entrophorus granulosus hrimps, small, non comm. elicolenus dactylopterus ezumia sp. ophius vomerinus eania profundorum aleus polli oplostethus melanopus eepwater fish mixture	weight 433.10 396.80 160.00 144.64 83.20 51.52 38.80 32.00 30.08 22.72 18.88 7.10	numbers 678 2966 10 96426 640 2304 64 320 800	30.26 27.72 11.18 10.10 5.81 3.60 2.71 2.24 2.10 1.59 1.32 0.50	
erluccius paradoxus, female rachyrinus scabrus entrophorus granulosus hhrimps, small, non comm. elicolenus dactylopterus lezumia sp. ophius vomerinus peania profundorum taleus polli oplostethus melanopus ecepwater fish mixture lerluccius paradoxus, male vristeus varidens	weight 433.10 396.80 160.00 144.64 83.20 51.52 38.80 32.00 30.08 22.72 18.88 7.10 5.12	numbers 678 2966 10 96426 640 2304 64 320 800	30.26 27.72 11.18 10.10 5.81 3.60 2.71 2.24 2.10 1.59 1.32 0.50	490
erluccius paradoxus, female rachyrinus scabrus entrophorus granulosus hrimps, small, non comm. elionenus dactylopterus ezumia sp. ophius vomerinus eania profundorum aleus polli oplostethus melanopus eepwater fish mixture lerluccius paradoxus, male risteus varidens phigonus denticulatus	weight 433.10 396.80 160.00 144.64 83.20 51.52 38.80 32.00 30.08 22.72 18.88 7.10	numbers 678 2966 10 96426 640 2304 64 320 800	30.26 27.72 11.18 10.10 5.81 3.60 2.71 2.24 2.10 1.59 1.32 0.50	490
erluccius paradoxus, female rachyrinus scabrus entrophorus granulosus hrimps, small, non comm. elicolenus dactylopterus ezumia spe esta esta esta esta esta esta esta est	weight 433.10 396.80 160.00 144.64 83.20 51.52 38.80 32.00 30.08 22.72 18.88 7.10 5.12 3.84 2.40 0.664	numbers 678 2966 10 96426 640 2304 64 320 800 10 1024 64 2 32	30.26 27.72 11.18 10.10 5.81 3.60 2.71 2.24 2.10 1.59 1.32 0.50 0.36 0.27 0.17	490
erluccius paradoxus, female rachyrinus scabrus entrophorus granulosus hrimps, small, non comm. elicolenus dactylopterus ezumia sp. ophius vomerinus eania profundorum aleus polli oplostethus melanopus eepwater fish mixture erluccius paradoxus, male risteus varidens pigonus denticulatus eryon maritae aja confundens emichthys scolopacea	weight 433.10 396.80 160.00 144.64 83.20 51.52 38.80 32.00 30.08 22.72 18.88 7.10 5.12 3.840 0.64	numbers 678 2966 10 96426 640 2304 64 320 800 10 10 10 24 64 2	30.26 27.72 11.18 10.10 5.81 3.60 2.71 2.24 2.10 1.59 0.36 0.27 0.17 0.04	490
rluccius paradoxus, female achyrinus scabrus introphorus granulosus rimps, small, non comm. licolenus dactylopterus zumia sp. phius vomerinus ania profundorum leus polli plostethus melanopus epwater fish mixture riuccius paradoxus, male isteus varidens iogonus denticulatus ryon maritae ja confundens michthys scolopacea	weight 433.10 396.80 160.00 144.64 83.20 51.52 38.80 32.00 30.08 22.72 18.88 7.10 5.12 3.84 2.40 0.664	numbers 678 2966 10 96426 640 2304 64 320 800 10 1024 64 2 32	30.26 27.72 11.18 10.10 5.81 3.60 2.71 2.24 2.10 1.59 1.32 0.50 0.36 0.27 0.17	490
rluccius paradoxus, female rachyrinus scabrus entrophorus granulosus urimps, small, non comm. elicolenus dactylopterus ezumia sp. ephius vomerinus eniaia profundorum eliaia profundorum elispesses paradoxus, male riuccius paradoxus, male risteus varidens eigenus denticulatus eryon maritae eja confundens emichthys scolopacea	weight 433.10 396.80 160.00 144.64 83.20 51.52 38.80 32.00 30.08 22.72 18.88 7.10 5.12 3.840 0.64	numbers 678 2966 10 96426 640 2304 64 320 800 10 1024 64 2 32	30.26 27.72 11.18 10.10 5.81 3.60 2.71 2.24 2.10 1.59 0.36 0.27 0.17 0.04	490
erluccius paradoxus, female rachyrinus scabrus entrophorus granulosus hrimps, small, non comm. elicolenus dactylopterus ezumia sp. ophius vomerinus eania profundorum aleus polli ioplostethus melanopus eepwater fish mixture lerluccius paradoxus, male risteus varidens poigonus denticulatus eigyon maritae taja confundens emichthys scolopacea	weight 433.10 396.80 160.00 164.64 83.20 151.52 38.80 32.00 30.08 22.72 18.88 7.10 5.12 3.44 2.40 0.64 1431.48	numbers 678 2966 10 96426 640 2304 64 320 800 10 1024 64 2 32 32	30.26 27.72 11.18 10.10 5.81 3.60 2.71 2.24 2.10 1.59 1.32 0.50 0.36 0.27 0.17 0.04 100.01	490 489 N: 110
erluccius paradoxus, female rachyrinus scabrus entrophorus granulosus hrimps, small, non comm. elicolenus dactylopterus ezumia sp. ophius vomerinus eania profundorum aleus polli oplostethus melanopus eepwater fish mixture erluccius paradoxus, male risteus varidens pigonus denticulatus eryon maritae aja confundens emichthys scolopacea otal	weight 433.10 396.80 160.00 164.64 83.20 151.52 38.80 32.00 30.08 22.72 18.88 7.10 5.12 3.84 2.40 0.64 1431.48	numbers 678 2966 10 96426 640 2304 64 320 800 10 1024 64 2 32 32 32	30.26 27.72 11.18 10.10 5.81 3.60 2.71 2.24 2.10 1.59 1.32 0.50 0.36 0.27 0.17 0.04 100.01	490 489 489
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erluccius paradoxus, female rachyrinus scabrus entrophorus granulosus hrimps, small, non comm. elicolenus dactylopterus ezumia sp. ophius vomerinus eania profundorum aleus polli oplostethus melanopus eepwater fish mixture erluccius paradoxus, male risteus varidens pigonus denticulatus eryon maritae aja confundens emichthys scolopacea otal DATE:15/ 2/94 CEAR TY start stop duration TIME: 19:05:00 19:25:00 20 (min LOG: 2859.10 2859.90 0.80	weight 433.10 396.80 160.00 396.80 160.00 144.64 83.20 51.52 38.80 32.00 30.08 22.72 18.88 7.10 5.12 3.84 2.40 0.64 1431.48	numbers 678 2966 10 96426 640 2304 64 320 8000 10 1024 62 32 32 32 32 32 32 4 PROJ	30.26 27.72 11.18 10.10 5.81 3.60 2.71 2.24 2.10 1.59 0.36 0.27 0.36 0.27 0.04 0.04	490 489 489
erluccius paradoxus, female rachyrinus scabrus entrophorus granulosus hrimps, small, non comm. elicolenus dactylopterus ezumia sp. ophius vomerinus eania profundorum aleus polli oplostethus melanopus eepwater fish mixture lerluccius paradoxus, male risteus varidens phigonus denticulatus etaja confundens lemichthys scolopacea lotal DATE:15/ 2/94 GEAR TY start stop duration TIME :19:05:00 19:25:00 20 (min LOG :2859:10 2859:90 0.80 FEDEPTH: 637 642	weight 433.10 396.80 160.00 396.80 160.00 144.64 83.20 51.52 38.80 32.00 30.08 22.72 18.88 7.10 5.12 3.84 2.40 0.64 1431.48	numbers 678 2966 10 96426 640 2304 64 320 800 10 1024 64 2 32 32 32 32 32 32 32 32 32 32 32 32 3	30.26 27.72 11.18 10.10 5.81 3.60 2.71 2.24 2.10 1.59 1.32 0.50 0.36 0.27 0.17 0.04 0.04 100.01	490 489 489
erluccius paradoxus, female rachyrinus scabrus (entrophorus granulosus chrimps, small, non comm. telecumia sp. ophius vomerinus veania profundorum valeus polli toplostethus melanopus veepwater fish mixture terluccius paradoxus, male vristeus varidens polgonus denticulatus varidens polgonus denticulatus varidens veepwater fish mixture terluccius paradoxus, male vristeus varidens polgonus denticulatus varidens varid	weight 433.10 396.80 160.00 164.64 83.20 151.52 38.80 22.72 18.88 7.10 5.12 3.84 2.40 0.64 1431.48	numbers 678 2966 10 96426 640 2304 64 320 800 10 1024 64 2 32 32 32 32 32 32 32 4 PROJ	30.26 27.72 11.18 10.10 5.81 3.60 2.71 2.24 2.10 1.59 1.32 0.50 0.36 0.27 0.17 0.04 0.04 100.01	490 489 489
Start stop duration TIME :19:05:00 19:25:00 20 (min LOG :2859.10 2859.90 0.80 FDEPTH: 637 642 BDEPTH: 637 642 Towing dir: Wire out:	weight 433.10 396.80 160.00 144.64 83.20 160.00 124.64 83.20 32.00 30.08 22.72 18.88 7.10 5.12 3.84 2.40 0.64 1431.48	numbers 678 2966 10 96426 640 2304 64 320 800 10 1024 64 2 32 32 32 32 32 d. code: 20d. code: 2vy code: beed: 26 kn	30.26 27.72 11.18 10.10 5.81 3.60 2.71 2.24 2.10 1.59 1.32 0.50 0.36 0.27 0.17 0.04 0.04 100.01	490 489 N: 110 : 2102 : 1219
erluccius paradoxus, female rachyrinus scabrus entrophorus granulosus hrimps, small, non comm. elicolenus dactylopterus ezumia sp. ophius vomerinus eania profundorum aleus polli oplostethus melanopus eepwater fish mixture erluccius paradoxus, male risteus varidens pigonus denticulatus eryon maritae aja confundens emichthys scolopacea otal DATE:15/ 2/94 GEAR TY start stop duration TIME :19:05:00 19:25:00 20 (min Log :2859.10 2859.90 0.80 FDEPTH: 637 642 BDEPTH: 637 642 Towing dir: Wire out: Sorted: 36 Kg Total catch:	weight 433.10 396.80 160.00 164.64 63.20 51.52 38.80 32.00 30.08 7.10 5.12 72 18.88 7.10 5.12 72 18.84 2.40 0.64 0.64 1431.48	numbers 678 2966 10 96426 640 2304 64 320 800 10 1024 64 2 32 32 32 32 11 PROJ 11 POSITI 1 code: 3 3de : 2 4d.code: 2 y code: weed: 26 kn	30.26 27.72 11.18 10.10 5.81 3.60 2.71 2.24 2.10 1.59 1.32 0.50 0.36 0.27 0.17 0.04 0.04 100.01 ECT STATIO ON: Lat S Long E HOUR: 3 OF TOT. C 25.82	489 489 N: 110 : 2102 : 1219
erluccius paradoxus, female rachyrinus scabrus entrophorus granulosus hrimps, small, non comm. elicolenus dactylopterus ezumia sp. ophius vomerinus eania profundorum aleus polli oplostethus melanopus eepwater fish mixture lerluccius paradoxus, male risteus varidens eligionus denticulatus eryon maritae ala confundens emichthys scolopacea otal DATE:15/ 2/94 GEAR TY start stop duration TIME :19:05:00 19:25:00 20 (min LOG :2859:10 2859:90 0.80 FDEPTH: 637 642 BDEPTH: 637 642 Towing dir: Wire out: Sorted: 36 Kg Total catch: GPECIES	weight 433.10 396.80 160.00 164.64 63.20 51.52 38.80 32.00 30.08 7.10 5.12 38.42 40.64 0.64 1431.48	numbers 678 2966 10 96426 640 2304 64 320 800 10 1024 64 2 32 32 32 11 POSITI code: 3 3de d: 2 d: Code: 2 y code: 2 y code: 2 h CATCH/	30.26 27.72 11.18 10.10 5.81 3.60 2.71 2.24 2.10 1.59 0.36 0.36 0.27 0.17 0.04 0.04 100.01	489 489 N: 110 : 2102 : 1219
erluccius paradoxus, female rachyrinus scabrus entrophorus granulosus hrimps, small, non comm. elicolenus dactylopterus ezumia sp. ophius vomerinus eania profundorum aleus polli oplostethus melanopus eepwater fish mixture erluccius paradoxus, male risteus varidens pigonus denticulatus ezyon maritae aja confundens emichthys scolopacea otal DATE:15/ 2/94 GEAR TY Start stop duration TIME :19:05:00 19:25:00 20 (min Log :2859.10 2859.90 0.80 FEDETH: 637 642 Towing dir: Wire out: Sorted: 36 Kg Total catch: GECEIS Grachyrinus scabrus lezumia sp. (oplostethus cadenati	weight 433.10 396.80 160.00 396.80 160.00 144.64 83.20 150.00 30.00 30.00 22.72 18.88 0 22.72 18.80 0.64 2.40 0.64 1431.48	numbers 678 2966 10 96426 640 2304 64 320 800 10 1024 64 2 32 32 32 32 32 32 41 CATCH/ /HOUR 1 numbers 288 4680 1404	30.26 27.72 11.18 10.10 5.81 3.60 2.71 2.24 2.10 1.59 1.32 0.50 0.36 0.27 0.17 0.04 0.04 100.01 ECT STATIO ON: Lat S Long E HOUR: 3 OF TOT. C 25.82 23.65 14.26	490 489 N: 110 : 2102 : 1219
perluccius paradoxus, female rachyrinus scabrus tentrophorus granulosus thrimps, small, non comm. telicolenus dactylopterus telicolenus dactylopterus telicolenus dactylopterus telicolenus dactylopterus telicolenus dactylopterus telicolenus dactylopterus telicolenus denderus telicolenus telicol	weight 433.10 396.80 160.00 164.64 63.20 51.52 38.80 32.00 30.08 7.10 5.12 38.42 40.64 0.64 1431.48	numbers 678 2966 10 96426 640 2304 64 320 800 10 1024 64 2 32 32 32 11 POSITI code: 3 3de d: 2 d: Code: 2 y code: 2 y code: 2 h CATCH/	30.26 27.72 11.18 10.10 5.81 3.60 2.71 2.24 2.10 1.59 0.36 0.36 0.27 0.17 0.04 0.04 100.01	489 489 N: 110 : 2102 : 1219

DATE: 15/ 2/94 GEAR TYPE	: BT No:1		JECT STATIO ION:Lat S	
start stop duration	: BI NO:I	P03111	Long E	
TIME :19:05:00 19:25:00 20 (min)	Purpose c	ode: 3	20119 2	
LOG : 2859.10 2859.90 0.80	Area code			
FDEPTH: 637 642	GearCond.			
BDEPTH: 637 642	Validity			
Towing dir: * Wire out:21	00 m Speed	d: 26 km	*10	
Sorted: 36 Kg Total catch:	122.01	CATCH	HOUR: 3	66.03
SPECIES	CATCH/HO	UR 1	OF TOT, C	SAMP
		mbers		
Trachyrinus scabrus	94.50	288	25.82	
Nezumia sp.	86.58	4680	23.65	
Hoplostethus cadenati	52.20	1404	14.26	
Merluccius paradoxus, female	38.40	36	10.49	491
Lophius vomerinus	19.65	15	5.37	492
Geryon maritae	19.62 16.20	36 18	5.36 4.43	
Todarodes sagittatus	13.86	126	3.79	
Lamprogrammus exutus Alepocephalus sp.	8.28	126	2.26	
Bathyuroconger vicinus	8.10	126	2.21	
MYXINIDAE	3.24	36	0.89	
Galeus polli	2.52	36	0.69	
Dicrolene intronigra	1.80	36	0.49	
Stereomastis sculpta	1.08	126	0.30	
Total	366.03		100.01	
			JECT STATIO	
	: BT No:1	POSIT	ION:Lat S	
start stop duration TIME :23:16:00 23:46:00 30 (min)	Durnaga	ode: 3	Long E	1207
TIME :23:16:00 23:46:00 30 (min) LOG :2884.90 2886.20 1.30	Purpose c			
FDEPTH: 542 540	GearCond.			
BDEPTH: 542 540	Validity			
Towing dir: 350° Wire out:18			*10	
Sorted: 150 Kg Total catch:	1220.20	CATCH,	/HOUR: 24	40.40

Sorted: 150 Kg Total catch	n: 1220.2	0 CATC	H/HOUR: 2	440.40
bolded. 150 kg local cate.			,	
SPECIES	CATCH	/HOUR	OF TOT. C	SAME
	weight	numbers		
Trachyrinus scabrus	1360.30	5856	55.74	
Nezumia sp.	400.16	15616	16.40	
Hoplostethus melanopus	248.88	7076	10.20	
Lophius vomerinus	120.78	56	4.95	493
Merluccius paradoxus, female	118.90	126	4.87	495
Galeus polli	51.24	610	2.10	
Lamprogrammus exutus	43.92		1.80	
Raja confundens	29.28	122	1.20	
Selachophidium guentheri	19.52	366	0.80	
Lophius vaillanti	10.42	6	0.43	494
OPHICHTHIDAE	9.76	244	0.40	
Lithodes ferox	8.66	22	0.35	
Allocyttus verrucosus	4.88	122	0.20	
Geryon maritae	4.20	6	0.17	
Notacanthus sexspinis	3.66	122	0.15	
Merluccius paradoxus, male	2.80	2	0.11	49€
Aristeus varidens	2.44	244	0.10	
NEPHROPIDAE	0.60	122	0.02	
Total	2440.40		99.99	

		PROJECT STATIC	N: 112
	PE: BT No:1 PC	SITION: Lat	2038
start stop duration			1,212
TIME :07:12:00 07:42:00 30 (min)	Purpose code:	3	7
LOG : 2900.70 2902.10 1.40	Area code	: 2	
FDEPTH: 413 396	GearCond.code	::	
BDEPTH: 413 396	Validity code		
Towing dir: • Wire out:1	300 m Speed: 3	0 kn*10	
_ , ,			
Sorted: Kg Total catch:	879.09 C	TCH/HOUR: 1	758.18
SPECIES	CATCH/HOUR	% OF TOT. C	SAMP
	weight number		
Trachyrinus scabrus	887,40 103		
Hoplostethus cadenati	193.80 95	4 11.02	
Lophius vomerinus	127.40	6 7.25	501
Nezumia sp.	125.20 53	72 7.12	
Merluccius capensis, female		6.36	497
Helicolenus dactylopterus	105.40 12	5.99	•••
Merluccius paradoxus, female		98 3.87	499
Deepwater fish mixture	53.04	3.02	
Galeus polli		0.93	
Epigonus denticulatus	14.28 5	4 0.81	
Chlorophthalmus punctatus		0.58	
Lophius vaillanti	10.00	4 0.57	502
Aristeus varidens	8.84 10	38 0.50	
Ebinania costaecanarie	7.48	58 0.43	
Shrimps, small, non comm.	7.48 42		
Merluccius capensis, male	6.66	6 0.38	498
Merluccius paradoxus, male	1.02	2 0.06	500
Coelorinchus fasciatus	0.68	58 0.04	
OPHICHTHIDAE		68 0.04	
Notacanthus sexspinis	0.34	58 0.02	

99.89

Total

	PROJECT STATION: 11	
DATE:16/ 2/94	GEAR TYPE: BT No:1 POSITION:Lat S 2038	
	duration Long E 1212	2
TIME :08:58:00 09:28:00		
LOG : 2907.80 2909.20	1.40 Area code : 2	
FDEPTH: 421 404	GearCond.code:	
BDEPTH: 421 404	Validity code:	
Towing dir: 350°	Wire out:1300 m Speed: 28 kn*10	
Sorted: Kg Tot	tal catch: 1306.56 CATCH/HOUR: 2613.12	
SPECIES	CATCH/HOUR % OF TOT. C SAMI	Þ
0. 20. 20.	weight numbers	•
Trachyrinus scabrus	1108.60 11058 42.42	
Shrimps, small, non comm.	402.00 233914 15.38	
Hoplostethus cadenati	356.00 25738 13.62	
Schedophilus huttoni	211.60 92 8.10	
Nezumia sp.	165.60 5980 6.34	
Merluccius capensis, female	133.60 80 5.11 50	3
Helicolenus dactylopterus	74.60 920 2.85	-
Lophius vomerinus	52.60 34 2.01 500	6
Merluccius paradoxus, female	52.10 88 1.99 50	
Merluccius capensis, male	23.30 20 0.89 504	4
Galeus polli	8.28 184 0.32	
Chlorophthalmus punctatus	6.44 184 0.25	
Epigonus denticulatus	6.44 276 0.25	
Notacanthus sexspinis	4,60 644 0.18	
Coelorinchus fasciatus	3.68 92 0.14	
Aristeus varidens	3.68 1104 0.14	
Total	2613.12 99.99	

DATE:16/ 2/94 GEAR TY start stop duration TIME :11:40:00 12:10:00 30 (min LOG :2923.60 2925.20 1.60 FDEPTH: 300 299 BDEPTH: 300 299 Towing dir: 350* Wire out:	Area co GearCon Validio	e code: ode : nd.code: ty code:	2	ON: 114 S 2034 E 1224
Sorted: 157 Kg Total catch:	692.7	l CATC	H/HOUR:	1385.42
SPECIES	CATCH, weight	numbers	S OF TOT.	SAMP
Pterothrissus belloci Austroglossus microlepis	618.20 190.52	5248 572	44.62 13.75	509
	185.24	298	13.75	508
Merluccius capensis, female Dentex macrophthalmus	117.80	440	8.50	
Merluccius capensis, male	73.92	140	5.34	
Lophius vomerinus	64.24	254	4.64	510
Solenocera africana	41.60	8450	3.00	210
Chlorophthalmus atlanticus	32.90	1882	2.37	
Neoharriotta pinnata	23.58	1602	1.70	
Synagrops microlepis	12.40	1038	0.90	
Trachurus capensis	7.56	44	0.55	511
Merluccius capensis, juveniles	4.48	192	0.33	513
Sufflogobius bibarbatus	2.98	1732	0.32	313
Deepwater fish mixture	2.92	1132	0.21	
Galeus polli	1.66	78	0.12	
Trachyrinus scabrus	1.32	16	0.12	
PORTUNIDAE	1.22	78	0.10	
OPHICHTHIDAE	0.96	26	0.07	
GALATHEIDAE	0.88	88	0.06	
Chelidonichthys capensis	0.44	16	0.03	
Total	1384.82		99.96	

	PROJECT STATION: 115
DATE: 16/ 2/94 GEAR TY	YPE: BT No:1 POSITION:Lat S 2031
start stop duration	Long E 1233
TIME :13:41:00 14:04:00 23 (min	n) Purpose code: 3
LOG : 2935.30 2936.60 1.30	Area code : 2
FDEPTH: 280 277	GearCond.code:
BDEPTH: 280 277	Validity code:
Towing dir: 360° Wire out:	: 840 m Speed: 30 kn*10
Sorted: 91 Kg Total catch:	: 178.40 CATCH/HOUR: 465.39
SPECIES	CATCH/HOUR % OF TOT. C SAMP
	weight numbers
Sufflogobius bibarbatus	252.52 84172 54.26
Merluccius capensis, male	252.52 84172 54.26 144.26 613 31.00 515
	252.52 84172 54.26

465.38

PROJECT STATION: 116		PROJECT STATION: 122
DATE:16/ 2/94 GEAR TYPE: BT No:1 POSITION:Lat S 2025 start stop duration TIME :17:44:00 18:03:00 19 (min) Purpose code: 3	DATE:17/ 2/94 GEAR TYPE: start stop duration TIME :15:10:00 15:40:00 30 (min)	Long E 1208 Purpose code: 2
LOG :2962.00 2963.00 1.00 Area code : 2 FDEPTH: 126 126 GearCond.code: BDEPTH: 126 126 Validity code:	FDEPTH: 287 288 BDEPTH: 287 288	Area code : 3 GearCond.code: Validity code:
Towing dir: 260° Wire out: 400 m Speed: 32 kn*10 Sorted: 28 Kg Total catch: 28.48 CATCH/HOUR: 89.94	Towing dir: 340° Wire out: 87 Sorted: 74 Kg Total catch:	0 m Speed: 36 kn*10 230.06 CATCH/HOUR: 460.12
SPECIES CATCH/HOUR % OF TOT. C SAMP	SPECIES	CATCH/HOUR % OF TOT. C SAMP
Weight numbers Merluccius capensis, female 66.79 638 74.26 517 Merluccius capensis, male 22.42 183 24.93 518	Pterothrissus belloci Dentex macrophthalmus	right numbers 127.20 1616 49.38 97.60 336 21.21 544
Trachurus capensis. juvenile	Merluccius capensis, female Merluccius capensis, male Sufflogobius bibarbatus	67.60 178 14.69 542 35.36 128 7.68 541- 24.80 9538 5.39
Total 89.94 100.00	Trachurus capensis CENTROLOPHIDAE Merluccius capensis, juveniles	3.68 16 0.80 545 1.44 32 0.31 1.00 30 0.22 543
	Solenocera africana PORTUNIDAE	0.80 256 0.17 0.64 16 0.14
PROJECT STATION: 117 DATE:16/ 2/94 GEAR TYPE: BT No:1 POSITION:Lat S 2036	Total	99.99
start stop duration Long E 1259 TIME :19:32:00 20:03:00 31 (min) Purpose code: 3 LOG :2973.70 2975.40 1.70 Area code : 2		
FDEPTH: 109 112 GearCond.code: BDEPTH: 109 112 Validity code: Towing dir: 240° Wire out: 333 m Speed: 32 kn*10		
Sorted: 3 Kg Total catch: 3.26 CATCH/HOUR: 6.31	DATE: 17/ 2/94 GEAR TYPE:	PROJECT STATION: 123 BT No:1 POSITION:Lat S 2005
SPECIES CATCH/HOUR % OF TOT. C SAMP weight numbers	start stop duration	Long E 1201 Purpose code: 3 Area code : 2
Trachurus capensis, juvenile 2.69 114 42.63 523 Merluccius capensis, male 1.94 19 30.74 522	FDEPTH: 333 334 BDEPTH: 333 334	GearCond.code: Validity code:
Merluccius capensis, female 0.91 10 14.42 521 Sufflogobius bibarbatus 0.77 108 12.20	Towing dir: 340° Wire out: 99 Sorted: 217 Kg Total catch:	00 m Speed: 32 kn*10 508.75 CATCH/HOUR: 1017.50
Total 6.31 99.99	SPECIES	CATCH/HOUR % OF TOT. C SAMP
PROJECT STATION: 118	Chlorophthalmus punctatus	eight numbers 235.50 7676 23.14 225.00 6152 22.11
DATE:17/ 2/94 GEAR TYPE: BT No:1 POSITION:Lat S 1950 start stop duration Long E 1238 TIME :07:18:00 07:48:00 30 (min) Purpose code: 3	Lophius vomerinus	198.68 328 19.53 548 115.30 122 11.33 546 64.50 1170 6.34
LOG :3032.80 3034.40 1.60 Area code : 3 FDEPTH: 113 118 GearCond.code:	Coelorinchus fasciatus Merluccius capensis, male	37.20 1620 3.66 36.20 58 3.56 547
BDEPTH: 113 118 Validity code: Towing dir: 240° Wire out: 350 m Speed: 32 kn*10	Dentex macrophthalmus Shrimps, small, non comm. Synagrops microlepis	24.00 2250 2.36 11.10 750 1.09
Sorted: 7 Kg Total catch: 6.75 CATCH/HOUR: 13.50	Pterothrissus belloci Guentherus altivela Todarodes sagittatus	8.40 30 0.83 6.90 60 0.68 6.30 30 0.62
SPECIES CATCH/HOUR % OF TOT. C SAMP weight numbers Merluccius capensis, female 5.64 46 41.78 524	PORTUNIDAE Austroglossus microlepis Trachurus capensis	6.00 120 -0-59 4.28 6 0.42 551 3.62 10 0.36 549
Merluccius capensis, male 3.28 44 24.30 525 Sufflogobius bibarbatus 2.36 16 17.48 Trachurus capensis, juvenile 0.96 96 7.11 526	Raja straeleni Total	2.12 2 0.21 017.50 100.01
Etrumeus whiteheadi 0.94 26 6.96 529 Sardinopo ocellata 0.22 2 1.63 528 Merluccius capensis, juveniles 0.10 4 0.74 527		
Total 13.50 100.00		
PROJECT STATION: 119		PROJECT STATION: 124
DATE:17/ 2/94 GEAR TYPE: BT No:1 POSITION:Lat S 1956 start stop duration Long E 1232 TIME :08:55:00 09:10:00 15 (min) Purpose code: 3	DATE:17/ 2/94 GEAR TYPE start stop duration TIME :19:25:00 19:55:00 30 (min)	
LOG :3039.80 3040.70 0.90 Area code : 3 FDEPTH: 132 131 GearCond.code:	LOG :3101.70 3103.00 1.40 FDEPTH: 449 433 BDEPTH: 449 433	Area code : 2 GearCond.code: Validity code:
Towing dir: 350° Wire out: 400 m Speed: 31 kn*10	Towing dir: 350° Wire out:140	00 m Speed: 30 kn*10
Sorted: 10 Kg Total catch: 10.36 CATCH/HOUR: 41.44	Sorted: 343 Kg Total catch:	725.40 CATCH/HOUR: 1450.80
SPECIES CATCH/HOUR % OF TOT. C SAMP weight numbers Trachurus capensis, juvenile 22.80 836 55.02 532	Merluccius paradoxus, female	CATCH/HOUR % OF TOT. C SAMP eight numbers 553.10 1042 38.12 552
Merluccius capensis, female 8.96 68 21.62 530 Galeichthys feliceps 3.92 8 9.46 Merluccius capensis, male 3.76 40 9.07 531	Helicolenus dactylopterus Deepwater fish mixture	411.00 3236 28.33 120.00 1110 8.27 93.00 6.41
Schedophilus huttoni 1.88 4 4.54 Sufflogobius bibarbatus 0.12 8 0.29	Todarodes sagittatus Lophius vomerinus Raja straeleni	48.30 90 3.33 41.80 24 2.88 554 35.40 30 2.44
Total 41.44 100.00	Nezumia sp. Galeus polli Lophius vaillanti	35.40 1380 2.44 29.70 330 2.05 18.20 4 1.25 555
PROJECT STATION: 120	Aristeus varidens Merluccius paradoxus, male Epigonus denticulatus	16.50 1500 1.14 12.00 26 0.83 553
DATE:17/ Z/94 EAR TYPE: BT No:1 POSITION:Lat S 1955 start stop duration Long E 1221 TIME :10:47:00 11:17:00 30 (min) Purpose code: 3	Chlorophthalmus punctatus Geryon maritae	11.10 210 0.77 10.20 360 0.70 7.90 16 0.54
LOG :3051.30 3052.80 1.50 Area code : 3 FDEPTH: 192 192 GearCond.code: BDEPTH: 192 192 Validity code:	Ebinania costaecanarie Total	7,20 210 0,50 450.80 100.00
Towing dir: 340° Wire out: 600 m Speed: 32 kn*10 Sorted: 10 Kg Total catch: 10.17 CATCH/HOUR: 20.34		
SPECIES CATCH/HOUR % OF TOT. C SAMP		
weight numbers Merluccius capensis, female 11.82 88 58.11 533		PROJECT STATION: 125
Merluccius capensis, juveniles 1.30 42 6.39 535 Chatrabus melanurus 0.98 2 4.82	start stop duration	: BT No:1 POSITION:Lat S 2008 Long E 1149
Sufflogobius bibarbatus 0.32 98 1.57 Total 20.34 100.00	TIME :22:15:00 22:45:00 30 (min) LOG :3114.40 3115.80 1.40 FDEPTH: 583 563	Area code : 2 GearCond.code:
	BDEPTH: 583 563 Towing dir: 350° Wire out:18	
PROJECT STATION: 121 DATE:17/ 2/94 GEAR TYPE: BT No:1 POSITION:Lat S 1959 start stop duration Long E 1214	Sorted: 228 Kg Total catch:	950.31 CATCH/HOUR: 1900.62
TIME :12:52:00 13:22:00 30 (min) Purpose code: 3 LOG :3063.00 3064.50 1.50 Area code : 2		CATCH/HOUR % OF TOT. C SAMP eight numbers 582.40 2426 30.64
FDEPTH: 242 227 GearCond.code: BDEPTH: 242 227 Validity code: Towing dir: 340° Wire out: 720 m Speed: 31 kn•10	Hoplostethus cadenati Merluccius paradoxus, female	579.60 28836 30.50 394.10 364 20.74 556
Sorted: 31 Kg Total catch: 31 69 CATCH/HOUR: 63.38	Lamprogrammus exutus Deepwater fish mixture	206.08 8378 10.84 44.24 896 2.33 20.16 1.06
SPECIES CATCH/HOUR % OF TOT. C SAMP weight numbers	APOGONIDAE Galeus polli OPHICHTHIDAE	16.80 56 0.88 16.24 168 0.85 14.00 336 0.74
Merluccius capensis, female 26.10 130 41.18 537 Merluccius capensis, male 26.10 196 41.18 536 Trachurus capensis 5.78 88 9.12 539	Helicolenus dactylopterus Lophius vomerinus Selachophidium guentheri	14.00 112 0.74 10.20 4 0.54 557 1.68 56 0.09
Dentex macrophthalmus 2.96 14 4.67 540 Merluccius capensis, juveniles 2.44 76 3.85 538	Notacanthus sexspinis	1.12 56 0.06 900.62 100.01
Total 63.38 100.00		

100.00

63.38

Total

start stop duration TIME :03:36:00 04:06:00 30 (f 1.0G :3155.60 3157.20 1.60 (FDEPTH: 600 539 (FDEPTH: 600 589 (FDEPTH: 600 5		PROJECT STATION: 130 DATE:18/ 2/94
Sorted: 280 Kg Total cate	ch: 1137.60 CATCH/HOUR: 2275.20	Sorted: 57 Kg Total catch: 90.81 CATCH/HOUR: 181.62
SPECIES	CATCH/HOUR % OF TOT. C SAMP	SPECIES CATCH/HOUR % OF TOT. C SAMP
Hoplostethus melanopus Merluccius paradoxus, female Trachyrinus scabrus Nezumia sp. Todarodes sagittatus OPHICHTHIDAE Centrophorus granulosus Helicolenus dactylopterus Deania profundorum Lamprogrammus exutus Lophius vaiilanti Galeus polli Raja confundens Selachophidium guentheri Merluccius polli, female Ebinania costaecanarie Epigonus denticulatus Yarella blackfordi Notacanthus sexspinis Total	weight numbers 1072.60 37822 47.14 448.80 434 19.73 559 437.00 1612 19.21 128.34 7440 5.64 44.64 186 1.96 22.70 2 1.30 22.32 124 0.98 19.20 6 0.84 186 0.71 130.70 2 0.47 560 8.06 62 0.35 6.20 62 0.27 5.58 124 0.25 2.56 2 0.11 558 1.86 62 0.25 2.56 2 0.11 1.86 62 0.28 1.86 62 0.08 1.86 62 0.	Merluccius capensis, female 42.20 76 23.24 574 Helicolenus dactylopterus 31.74 2080 17.48 Chlorophthalmus atlanticus 19.10 808 10.52 Lophius vomerinus 18.60 18 10.24 576 Synagrops microlepis 17.90 3660 9.86 Todarodes sagittatus 13.84 34 7.62 Dentex macrophthalmus 10.34 34 5.69 577 Merluccius capensis, male 7.40 28 4.7 575 Deepwater fish mixture 6.30 3.47 Ptercthrissus belloci 5.04 20 3.33 Coelcrinchus fasciatus 3.30 124 1.82 Hyperoglyphe moselli 1.32 2 0.73 Galeus polli 1.00 24 0.55 PORTUNIDAE 1 0.0 14 0.55 GALATHEIDAE 0.64 64 0.35 S H R I M P S 0.50 160 0.28 Solenocera africana 0.26 70 0.14 OPHICHTHIDAE 0.14 0.08 Total 181.62 100.02
	PROJECT STATION: 127	. PROJECT STATION: 131
start stop duratio TIME :07:29:00 07:59:00 30 (LOG :3167.70 3169.10 1.40 FDEPTH: 545 550 BDEPTH: 545 550	min) Purpose code: 3 Area code: 3 GearCond.code: Validity code: ut:1650 m Speed: 32 kn*10	DATE: 18/ 2/94 CEAR TYPE: BT No:1 POSITION: Lat S 1952 start stop duration TIME :16:04:00 16:22:00 18 (min.) Purpose code: 3 LCG :3216.80 3217.70 0.90 Area code : 2 FDEPTH: 283 283 GearCond.code: 9 BDEPTH: 283 283 Validity code: 9 Towing dir: 350' Wire out: 870 m Speed: 32 km:10 Sorted: Kg Total catch: CATCH/HOUR:
		SPECIES CATCH/HOUR 1 OF TOT, C SAMP
SPECIES Trachyrinus scabrus Hoplostethus cadenati Merluccius paradoxus, female Deania profundorum Nezumia sp. Raja confundens Neoharriotta pinnata	CATCH/HOUR No F TOT. C SAMP weight numbers 4550 2468 37.02 2520 11074 20.59 230.20 232 18.87 561 95.76 42 7.85 69.72 5230 5.72 27.72 84 2.27 17.64 42 1.45	SPECIES CATCH/HOUR 1 OF TOT. C SAMP Weight numbers Total
Shrimps, small, non comm. Helicolenus dactylopterus Caleus polli APOCONIDAE OPHICHTHIDAE Photichthys argenteus Lophius vomerinus Merluccius paradoxus, male Selachophidium guentheri Ebinania costaecanarie	17.64 982 1.45 16.80 84 1.38 14.28 126 1.17 7.14 42 0.59 6.72 168 0.55 3.78 336 0.31 3.70 2 0.30 563 3.40 4 0.28 562 2.52 42 0.21	DATE:19/2/94 GEAR TYPE: BT No:1 PROJECT STATION: 132 start stop duration TIME: (07:18:00 07:48:03 30 (min) Purpose code: 3 tod :3275.70 3277.50 1.80 Area code: 3 FDEPTH: 135 135 GearCond.code: BDEPTH: 135 135 Validity code: Towing dir: 340° Wire out: 410 m Speed: 33 kn*10
Total	1219.72 100.01	Sorted: 89 Kg Total catch: 89.28 CATCH/HOUR: 178.56
start stop duratic TIME :09:36:00 10:06:00 30 (LOG :3180.80 3182.30 1:50 FDEPTH: 391 397 BDEPTH: 391 397	min) Purpose code: 3 Area code: 3 GearCond.code: Validity code: ut:1200 m Speed: 26 kn*13	CATCH/HOUR A OF TOT. C SAMP
SPECIES	.cii: 1300.30 CA1CH/HOOK: 2013.00	
SPECIES.	•	
Merluccius capensis, female Deepwater fish mixture Merluccius capensis, male Merluccius paradoxus, female Lophius vomerinus Helicolenus dactylopterus Todarodes sagittatus Nezumia sp. Lophius vaillanti Merluccius paradoxus, male Galeus polli RAJIDAE Coelorinchus fasciatus	CATCH/HOUR % OF TOT. C SAMP weight numbers 1172.00 1168 44.84 564 851.20 12.57 334.96 372 12.82 565 65.20 126 2.53 566 63.50 34 2.43 569 58.24 768 2.23 18.24 96 0.70 111.20 416 0.43 9.90 4 0.38 568 6.60 14 0.25 567 5.44 54 0.21 4.48 64 0.17 3.52 96 0.13	DATE:19/ 2/94 GEAR TYPE: BT No:1 PROJECT STATION: 133 DATE:19/ 2/94 GEAR TYPE: BT No:1 POSITION:Lat S 1857 start stop duration Long E 1154 10G :3285.50 3289.20 1.70 Area code : 3 FDEPTH: 231 229 GearCond.code: BDEPTH: 231 229 Validity code: Towing dir: 340° Wire out: 700 m Speed: 31 kn=10 Sorted: 49 kg Total catch: 171.96 CATCH/HOUR: 343.92 SPECIES CATCH/HOUR 1 OF TOT. C SAMP weight numbers
Deepwater fish mixture Merluccius capensis, male Merluccius paradoxus, female Lophius vomerinus Helicolenus dactylopterus Todarodes sagittatus Nezumia sp. Lophius vaillanti Merluccius paradoxus, male Galeus polli RAJIDAE	CATCH/HOUR Numbers 1172.00 1168 44.84 564 851.20 12.57 32.57 334.96 372 12.82 565 63.50 34 2.43 569 58.24 768 2.23 18.24 96 11.20 416 0.43 9.90 4 0.38 568 6.60 14 0.25 567 5.44 64 64 0.21 4.48 64 0.21 4.48 64 0.21 4.48 64 0.21 4.48 64 0.21 4.48 64 0.21 4.48 64 0.21 6.25 567 5.44 64 64 0.21 6.25 567 5.44 64 64 0.21 6.25 567 5.44 64 0.29 0.96 32 0.04 2.24 64 0.09 0.96 32 0.04 2.24 64 0.09 0.96 32 0.04 2.26 13.80 100.02	DATE:19/ 2/94
Deepwater fish mixture Merluccius capensis, male Merluccius paradoxus, female Lophius vomerinus Helicolenus dactylopterus Todarodes sagittatus Nezumia sp. Lophius vaillanti Merluccius paradoxus, male Galeus polli RAJIDAE Coelorinchus fasciatus Epigonus denticulatus S H H I M P S Ebinania costaecanarie Selachophidium guentheri Total DATE:18/ 2/94	CATCH/HOUR Neight numbers 1172.00 1168 44.84 564 851.20 12.57 334.96 372 12.82 565 66.20 126 2.53 566 63.50 34 2.43 569 58.24 768 2.23 18.24 96 0.70 111.20 416 0.43 9.90 4 0.38 568 6.60 14 0.25 567 5.44 54 0.21 4.48 64 0.17 3.52 96 0.13 2.88 128 0.11 2.24 1344 0.09 2.24 64 0.09 0.96 32 0.04 2613.80 PROJECT STATION: 129 6.70 12.24 1344 0.09 0.96 32 0.04 2613.80 PROJECT STATION: 129 0.96 0.96 32 0.04 2613.80 PROJECT STATION: 129 0.96 0.96 32 0.04 2613.80 PROJECT STATION: 129 0.96 0.96 0.96 32 0.04 2613.80 PROJECT STATION: 129 0.96 0.96 0.96 0.96 0.96 0.96 0.96 0.9	DATE: 19/ 2/94
Deepwater fish mixture Merluccius capensis, male Merluccius paradoxus, female Lophius vomerinus Helicolenus dactylopterus Todarodes sagittatus Nezumia sp. Lophius vaillanti Merluccius paradoxus, male Galeus polil RAJIDAE Coelorinchus fasciatus Epigonus denticulatus S H R I M P S Ebinania costaecanarie selachophidium guentheri Total DATE:18/ 2/94	CATCH/HOUR Neight numbers 1172.00 1168 44.84 564 851.20 1168 32.57 334.96 372 12.82 565 65.20 126 2.53 566 63.50 34 2.43 569 58.24 768 2.23 18.24 96 0.70 111.20 416 0.43 9.90 4 0.38 568 6.60 14 0.25 567 5.44 54 0.21 4.48 54 0.17 3.52 96 0.13 2.88 128 0.11 2.24 1344 0.09 2.24 64 0.09 2.24 64 0.09 2.24 64 0.09 2.24 64 0.09 2.24 64 0.09 2.24 64 0.09 2.25 657 65 0.00 13 0.00 100 0.0	DATE:19/ 2/94
Deepwater fish mixture Merluccius capensis, male Merluccius capensis, male Merluccius paradoxus, female Lophius vomerinus Helicolenus dactylopterus Todarodes sagittatus Nezumia sp. Lophius vaillanti Merluccius paradoxus, male Galeus polli RAJIDAE Coelorinchus fasciatus Epigonus denticulatus S H R I M P S Ebinania costaecanarie Selachophidium guentheri Total DATE:18/ 2/94 CEAN start stop duratic TIME :11:52:00 12:22:00 36 (LOG :3194.00 3195.10 1.30 FDEPTH: J46 343 BDEPTH: J46 343 Towing dir: 'Wire of	CATCH/HOUR Neight numbers 1172.00 1168 44.84 564 851.20 12.57 334.96 372 12.82 565 66.20 126 2.53 566 63.50 34 2.43 569 58.24 768 2.23 18.24 96 0.70 111.20 416 0.43 9.90 4 0.38 568 6.60 14 0.25 567 5.44 54 0.21 4.48 64 0.17 3.52 96 0.13 2.88 128 0.11 2.24 1344 0.09 2.24 64 0.09 0.96 32 0.04 2613.80 PROJECT STATION: 129 6.70 12.24 1344 0.09 0.96 32 0.04 2613.80 PROJECT STATION: 129 0.96 0.96 32 0.04 2613.80 PROJECT STATION: 129 0.96 0.96 32 0.04 2613.80 PROJECT STATION: 129 0.96 0.96 0.96 32 0.04 2613.80 PROJECT STATION: 129 0.96 0.96 0.96 0.96 0.96 0.96 0.96 0.9	DATE:19/ 2/94

start stop duration TIME :13:49:00 14:19:00 30 (mi) LOG :3313.50 3315.10 1.60 FDEPTH: 273 270 BDEPTH: 273 270	PE: BT No:1 POSITIO n) Purpose code: 3 Area code: 3 GearCond.code: Validity code: 1900 m Speed: 38 kn*	Long E 1137	start stop durati TIME :04:10:00 04:40:00 30 10G :3384.40 3386.10 1.70 FDEPTH: 550 552 BDEPTH: 550 552	<pre>(min) Purpose code: 3 Area code: 3 GearCond.code: Validity code: out:1650 m Speed: 33 kn*10</pre>
Merluccius capensis, female Helicolenus dactylopterus Merluccius capensis, male Chlorophthalmus atlanticus Trachurus capensis GALATHEIDAE Pterothrissus belloci Austroglossus microlepis Synagrops microlepis S H R I M P S Lophius vomerinus Solenocera africana PORTUNIDAE Coelorinchus fasciatus OFHICHRHIDAE Merluccius capensis, juveniles Trachurus capensis, juvenile	CATCH/HOUR weight numbers 222 41.40 1300 22.00 76 10.68 676 9.04 76 3.36 295 2.48 32 1.78 14 1.68 240 1.52 520 1.38 10 0.92 256 0.44 24 0.36 12 0.08 8 0.04 24	F TOT. C SAMP 41.71 595 24.81 13.18 596 6.40 5.42 597 2.01 1.49 1.07 601 1.01 0.91 0.83 600 0.55 0.26 0.22 0.07 0.05 599 0.02 598	Trachyrinus scabrus Nezumia sp. Lophius vomerinus Galeus polli Lophius vaillanti Merluccius capensis, female OCTOFODIDAE Dicrolene intronugra Merluccius paradoxus, female Ebinania costaecanarie Raja doutrei Geryon maritae Chlorophthalmus atlanticus Raja confundens Hoplostethus melanopus Merluccius capensis, male Neoharriotta pinnata Malacocephalus laevis Helicolenus dactylopterus Todarodes sagittatus Merluccius polli, female Coelorinchus fasciatus OPHICHTHIDAE	CATCH/HOUR Numbers 1006.40 6296 43.47 297.84 6872 12.86 177.30 72 7.66 620 1605.58 1960 6.94 128.20 46 5.54 621 98.70 68 4.26 619 75.48 1036 3.29 75.48 1036 3.29 75.48 1036 3.29 2.20 142 3.12 617 33.30 332 1.44 32.92 36 1.42 25.52 110 1.10 21.82 702 0.94 21.08 110 0.91 18.12 1220 10.70 618 18.12 1220 1.70 18.12 12.20 110 0.53 9.98 36 0.43 9.66 36 0.43 9.66 36 0.42 3.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1
DATE:19/ 2/94 start stop duration TIME :15:49:00 16:19:00 30 (m: LOG :3323.10 3324.70 1:60 FDEPTH: 297 295 BDEPTH: 297 295 Towing dir: 340° Wire out Sorted: 50 Kg Total catcl SPECIES Dentex macrophthalmus Pterothrissus belloci Helicolenus dactylopterus Herluccius capensis, female Herluccius capensis, male PORTUNIDAE Austroglossus microlepis Lophius vomerinus Total	TYPE: BT No:1 POSITION In) Purpose code: 3 Area code: 3 GearCond.code: Validity code: 11000 m Speed: 33 km The Speed: 37 Km The Speed:	Long E 1132	start stop durat TIME :07:35:00 08:05:00 30 LOG :3393.40 3395.20 1.80 FDEPTH: 460 473 BDEPTH: 460 473	PROJECT STATION: 140 AR TYPE: BT No:1 POSITION:Lat \$ 1837 ion
start stop duration TIME :17:55:00 18:25:00 30 (m LOG :3332.30 3334.40 1.60 FDEPTH: 427 434 BDEPTH: 427 434 Towing dir: 360° Wire ou Sorted: 109 Kg Total catc	TYPE: BT No:1 POSITJ in) Purpose code: 3 Area code : 2 GearCond.code: Validity code: t:1300 m Speed: 31 kn h: 292.62 CATCH/	HOUR: 585.24	Merluccius capensis, male Todarodes sagittatus Lophius vaillanti C R A B S Selachophidium guentheri Merluccius paradoxus, female OPHIDIIDAE Coelorinchus coelorinch, polli Austroglossus microlepis Merluccius paradoxus, male Total	42.10 46 1.49 623 36.90 82 1.30 29.30 16 1.03 627 4.92 82 0.17 4.92 82 0.17 4.64 6 0.16 624 2.46 82 0.09 2.46 82 0.09 2.10 2 0.07 628 1.18 2 0.04 625
Helicolenus dactylopterus Merluccius capensis, female Nezumia sp. Galeus polit Centrolophus niger Coelorinchus fasciatus Merluccius paradoxus, female Lophius vomerinus Trachyrinus scabrus Merluccius capensis, male Hoplostethus cadenati Laemonema laureysi Ebinania costaccanarie Coelorinchus coelorinch. polit Epigonus denticulatus Lophius vaillanti Selachophidium guentheri Shrimps, small, non comm. Total	weight numbers 141.60 118.80 118 42 111.40 4534 50.80 560 16 24.48 609 20.44 46 15.10 10 12.96 224 9.34 18 6.56 928 4.96 48 4.80 80 4.16 3.04 144 2.92 2.72 64 332	24.20 20.30 607 19.55 8.68 7.79 4.18 3.49 609 2.56 610 2.21 1.60 608 1.12 0.85 0.82 0.71 0.52 0.50 0.44	start stop durat TIME :09:30:00 10:00:00 30 LOG :3401.80 3403.50 1.70 FDEPTH: 294 300 BDEPTH: 294 300	(min) Purpose code: 3 Area code: 3 GearCond.code: Validity code: e out: 900 m Speed: 34 kn*10
DATE:19/ 2/94 GEAR start stop duration TIME: 20:24:00 20:55:00 31 (1 LOG :3342-50 3344.00 1.50 FDEPTH: 584 6.4 BDEPTH: 584 6.4 Towing dir: 330* Wire on Sorted: 264 kg Total cate **Trachyrinus scabrus Merluccius paradoxus, female Deania profundorum Nezumia sp. Hoplostethus cadenat! Todarodes sagittatus Lophius vomerinus Lophius vaillanti RAJIDAE Notacanthus aexspinis Galeus polli Selachophidiun guenther: Trachypterus jacksonensis Merluccius paradoxus, male Total	TYPE: BT No:1 POSIT 1 ain) Purpose code: 3 Area code: 3 GearCond.code: Validity code: Validity code: 27 kt:1900 m Speed: 27 kt. ch: 813.84 CATCH		start stop dura TIME: 11:10:00 11:40:00 30 1CG: 3408.80 3410.60 1.8 FDEPTH: 230 229 BDEPTH: 230 229 Towing dir: Wire	(min) Purpose code: 3

start step duration TIME :12:59:00 13:29:00 30 (min LOG :3417.40 3418.90 1.50 FDEPTH: 183 178 BDEPTH: 183 178	PE: BT No:1 POSITIO	Long E		start stop durati TIME :01:07:00 01:37:00 30 LOG :3480.00 3481.40 1.40 FDEPTH: 511 511 BDEPTH: 511 511	R TYPE: BT No:1 on (min) Purpose co Area code GearCond.c Validity out:1600 m Speed	ode: 3 : 3 :ode:	
Sorted: 121 Kg Total catch:	2325.95 CATCH/H	OUR: 465	1.90	Sorted: 230 Kg Total ca	itch: 1447.31	CATCH/HOUR: 2	894.62
SPECIES	CATCH/HOUR 10	F TOT. C	SAMP	SPECIES	CATCH/HOU	JR % OF TOT. C	SAMP
Trachurus capensis Dentex macrophthalmus Merluccius capensis, female Chelidonichthys capensis Merluccius capensis, male Pterothrissus belloci Anthias anthias Total	weight numbers 2346.55 73926 1688.22 9836 354.20 1616 160.54 308 86.60 692 15.40 154 0.38 2	50.44 36.29 7.61 3.45 1.86 0.33 0.01	641 638 639 640	Trachyrinus scabrus Nezumia sp. Lophius vomerinus Merluccius paradoxus, female Helicolenus dactylopterus Epigonus denticulatus Lophius vaillanti Merluccius polli, female Todarodes sagittatus Deania profundorum Geryon maritae PORTUNIOAE	weight nur 1753.18	mbers 9946 60.57 17486 17.43 32 3.97 132 3.46 186 2.62 186 2.35 12 2.03 54 1.80 124 1.42 8 1.36 124 1.20 248 0.49	670 667 671 666
start stop duration TIME :14:42:00 15:12:00 30 (min LOG :3425.20 3426.60 1.40 FDEPTH: 153 143 BDEPTH: 153 143 Towing dir: 360 Wire out:	PE: BT No:1 POSITIO Purpose code: 3 Area code : 3 GearCond.code: Validity code: 480 m Speed: 29 kn*		1827 1142	Guentherus altivela Chlorophthalmus atlanticus Hoplostethus melanopus Dicrolene intronigra Merluccius capensis, female Merluccius paradoxus, male Total	12.76 9.34 6.84 5.60 2.20 0.90	4 0.44 248 0.32 372 0.24 62 0.19 2 0.08 2 0.03	669
Sorted: 126 Kg Total catch:	2724.85 CATCH/F	10UR: 544	9.70			PROJECT STAT	
SPECIES Trachurus capensis Dentex macrophthalmus Merluccius capensis, female Austroglossus microlepis Chelidonichthys capensis Mustelus palumbes Merluccius capensis, male	CATCH/HOUR Numbers 2741.20 87914 2534.80 25430 55.90 386 52.88 214 29.24 86 25.36 42 10.32 128	50.30 46.51 1.03 0.97 0.54 0.47	SAMP 643 642 644 646	start stop durati TIME:07:16:00 07:46:00 30 LOG:3491.50 3493.20 1.70 FDEPTH: 268 262 BDEPTH: 268-282	(min) Purpose of Area code GearCond. Validity out: 750 m Speet	ode: 3 : 3 code: code:	S 1748 E 1123
Total	5449.70	100.01	043	SPECIES	CATCH/HO	UR 1 OF TOT.	C SAMP
DATE: 20/ 2/94 GEAR T' start stop duration TIME : 17:33:00 18:03:00 30 (mix LOG : 13444.00 3445.80 1.40 FDEPTH: 240 236 BDEPTH: 240 238	PROJI (PE: BT No:1 POSITIO 1) Purpose code: 3 Area code: 2 GearCond.code: Validity code:	ECT STATION DN:Lat S Long E	1813	Merluccius capensis, female Merluccius capensis, male Helicolenus dactylopterus Chlorophthalmus punctatus Dentex macrophthalmus Deania calcea Trachurus capensis Pterothrissus belloci Synagrops microlepis Zeus capensis Todarodes sagittatus		mbers 446 40.37 254 20.71 972 14.46 1150 11.10 2 2.37 20 11.40 0.98 260 0.78 2 0.71	672 673 676 675
Towing dir: 360° Wire out:			8.80	Selachophidium guentheri Parapenaeus longirostris	0.96 0.74	34 0.27 186 0.21	
Sorted: 126 Kg Total catch	: 1889.40 CAICA/	HOUR: 337	0.00	Merluccius polli, juveniles Trigla lyra	0.56 0.36	14 0.16 32 0.10	674
SPECIES	CATCH/HOUR 1 (OF TOT. C	SAMP	APOGONIDAE Octopus sp.	0.20 0.18	6 0.06 6 0.05	
Trachurus capensis Dentex macrophthalmus	2191.80 26868 580.80 2728	64.87 17.19	650 651	Coelorinchus fasciatus Solenocera africana	0.16 0.10	2 0.04 22 0.03	
Synagrops microlepis Merluccius capensis, female	301.98 45040 140.40 458	8.94 4.16	647	Total	357.70	99.83	
Pterothrissus belloci Mexluccius capensis, male	81.80 1212 48.40 236	2.42 1.43	648				
Squalus megalops Callorhinchus capensis	32.32 102 1.02 2 0.28 6	0.96 0.03 0.01	649	DATE: 21/ 2/94 GE	AR TYPE: BT No:1	PROJECT STAT	
Merluccius capensis, juveniles - Total -	3378.8C	100.01	47	start stop durat TIME :09:33:00 09:43:00 10 LOG :3501.50 3502.20 0.70 FDEPTH: 204 211	ion (min) Purpose o Area code GearCond.	Long ode: 3 : 3 code:	E 1128
DAME: 20 / 2 /04 CEAR T	PROJ YPE: BT No:1 POSITI	ECT STATION	4: 146 1809	BDEPTH: 204 211 Towing dir: 202 Wire	Validity out:6503 m Spee		
DATE:20/ 2/94 GEAR T start stop duration TIME :19:21:00 19:36:00 15 (mi LOG :3451.90 3452.80 0.90 FDEPTH: 361 370 BDEPTH: 361 370		Long E	1128	Sorted: 106 Kg Total co	CATCH/HC	CATCH/HOUR: UR % OF TOT.	634.62 C SAMP
	:1200 m Speed: 36 km			Trachurus capensis Dentex macrophthalmus	397.80 60.00	3558 62.68 330 9.45	680
Sorted: Kg Total catch	: 1746.59 CATCH/	HOUR: 69	36.36	Synagrops microlepis Merluccius capensis, female	52.44 47.10	5244 8.26 276 7.42	677
SPECIES		OF TOT. C	SAMP	Merluccius capensis, male Helicolenus dactylopterus Pterothrissus belloci	25.20 19.98 12.90	126 3.97 480 3.15 138 2.03	
Helicolenus dactylopterus Merluccius capensis, female	weight numbers 2787.80 46736 2284.40 2652	39.90 32.70	654	Chlorophthalmus punctatus Callorhinchus capensis	9.06 6.36	258 1.43 6 1.00	
Chlorophthalmus punctatus Merluccius capensis, female	452.80 15464 385.80 424	6.48 5.52	652	Squalus megalops Merluccius polli, juveniles	2.76 0.60	12 0.43 18 0.09	679
Pterothrissus belloci Merluccius capensis, male	364.80 1696 364.80 424	5.22 5.22	655	Octopus sp. Sepia australis	0.24 0.18	24 0.04 6 0.03	
Raja leopardus Merluccius capensis, male Coelorinchus coelorinch, polli	150.40 108 76.00 100 50.00 2436	2.15 1.09 0.72	653	Total	634.62	99.98	i
Galeus polli Lophius vomerinus	46.64 424 18.40 24	0.67	657				
Lophius vaillanti Austroglossus microlepis	2.32 4 2.20 48	0.03	656 658	CATE: 21/ 2/94 GE	AR TYPE: BT No:1	PROJECT STAT POSITION: Lat	
Total	6986.36	99.99		start stop durat TIME :12:14:00 12:44:00 30 LOG :3521.10 3522.90 1.80 FDEPTH: 377 380 BDEPTH: 377 380	(min) Purpose o	code: 3 code:	E 1121
DATE: 20/ 2/94 GEAR T		ECT STATION ON: Lat S	1807	Towing dir: 340° Wire	out:1300 m Spee	d: 40 kn*10	
start stop duration TIME :21:11:00 21:41:00 30 (mi	n) Purpose code: 3	Long E	1124	Sorted: 128 Kg Total c	eatch: 576.94	CATCH/HOUR:	1153.88
LOG :3459.80 3461.50 1.70 FDEPTH: 551 563	Area code : 3 GearCond.code:			SPECIES	CATCH/HC		C SAMP
BDEPTH: 551 563 Towing dir: • Wire out	Validity code: :1700 m Speed: 31 km	*10		Helicolenus dactylopterus Squalus megalops	weight no 482.40 131.94	umbers 2922 41.81 522 11.43	
Sorted: Kg Total catch	: 1441.97 CATCH/	HOUR: 28	83.94	Squarus megarops Dicrolene intronigra Coelorinchus fasciatus	77.94 69.12	900 6.75 2032 5.99	•
SPECIES		OF TOT. C	SAMP	Merluccius capensis, female Galeus polli	68.40 66.24	86 5.93 648 5.74	682
Trachyrinus scabrus	weight numbers 1830.90 13698	63.49		Hoplostethus mediterraneus Schedophilus huttoni	66.06 36.90	6496 5.73 54 3.20	1
Nezumia sp. Merluccius paradoxus, female	591.60 17648 96.30 118	20.51 3.34	660 665	Lophius vaillanti Merluccius capensis. male Epigonus denticulatus	33.20 20.82 20.52	14 2.88 28 1.80 1350 1.78	683
Lophius vomerinus Hoplostethus cadenati Helicolenus dactylopterus	71.92 16 68.34 3876 59.16 306	2.49 2.37 2.05	665	Epigonus denticulatus Merluccius polli, female Chlorophthalmus atlanticus	18.18 17.28	24 1.58 414 1.50	684
Merluccius capensis, female Galeus polli	45.30 48 44.88 510	1.57	662	Guentherus altivela Synagrops microlepis	9.18 7.74	18 0.80 630 0.67	
Merluccius polli, female Geryon maritae	24.60 30 21.42 102	0.85 0.74	659	Zenopsis conchifer Lophius vomerinus	7.02 5.10	18 0.61 6 0.44	685
Lophius vaillanti Chlorophthalmus punctatus	17.66 4 6.12 204	0.61	664	Trachyrinus scabrus Malacocephalus laevis	4.68 3.96	18 0.41 36 0.34	l
Merluccius capensis, male Epigonus denticulatus	2.92 4 2.04 192 9.90 2	0.10 0.07 0.03	653 661	Raja confund e ns Nezumia sp. PORTUNIDAE	3.78 2.16 1.26	18 0.33 108 0.19 36 0.11)
Merluccius paradoxus, male Total	2884.06	99.99	001	Total	1153.88	100.02	

99.99

Total

1153.88

100.C2

DATE: 21/ 2/94 GEAR TYPE: BT No:1 PROJECT STATION: 152

start stop duration Long E 1126

TIME : 14: 52:00 30 (min) Purpose code: 3
LOG : 3531.90 3533.20 1.30 Area code : 3
FDEPTH: 216 218 GearCond.code:
BDEPTH: 216 218 Validity code:
Towing dir: 360° Wire out: 660 m Speed: 32 kn*10

Sorted: 159 Kg Total catch: 5680.66 CATCH/HOUR: 11351.32

SPECIES	CATCH	HOUR	S OF TOT. C	SAMP
	weight	numbers		
Trachurus capensis	4033.48	30802	35.50	690
Synagrops microlepis	3748.68	814930	33.00	
Merluccius capensis, female	2121.76	7688	18.68	689
Merluccius capensis, male	758.28	3274	6.67	688
Dentex macrophthalmus	213.60	1138	1.88	687
Chelidonichthys capensis	138.12	498	1.22	
Squalus megalops	128.86	568	1.13	
Raja miraletus	72.62	142	0.64	
Helicolenus dactylopterus	69.76	1636	0.61	
Pterothrissus belloci	41.28	356	0.36	
PORTUNIDAE	20.64	1708	0.18	
Chlorophthalmus atlanticus	14.24	712	0.13	
Total	11361.32		100.00	

Annex IV Instruments and fishing gear used

Acoustic instruments

The SIMRAD EK500/38 Khz scientific sounder was used during the survey for estimation of fish density. The EK500 has a built- in digital echo integrator, but the Bergen Echo Integrator system (BEI) was used throughout the survey. The details of the instrument settings are as follows:

Tranceiver settings:

Bandwith Wide (3.8 Khz)
Pulse length Medium (1 ms)
Max Power 2 000 Watt
Sv Transducer gain 27.8 dB
Ts Transducer gain 28.1 dB

Printer settings:

Range 0 - 100 or 0 - 250 m

TVG 20 log R
TS Colour min - 50 dB
Sv Colour min - 64 dB

An ES38B with a 6.8° -3dB beamwith transducer was used for integration.

A calibration experiment using a standard copper sphere, performed in Baia dos Tigres 23/2 1994 gave the following results: Sv Transducer gain 27.8 dB, Ts Transducer gain 28.1 dB.

Glossary:

Sv Transducer gain: Peak transducer gain assumed during computation of volume backscattering strength.

Ts Transducer gain: Peak transducer gain assumed during computation of target strength.

Ts Colour min: Lower limit of colour scale relative to target strength.

Sv Colour min: Lower limit of colour scale relative to Volume back scattering.

Hydrography

Conductivity, temperature, density and oxygen were sampled regularly at CTD stations with a Seabird CTD-sonde. The salinity was calculated by a computer.

Fishing gear

Two different sized pelagic trawls and one bottom trawl were used during the survey. The following drawings show the size of these trawls.

F/F Dr. Fridtjof Nansen

OVER/UNDER/SIDER

OVER/UNDER
OVERDEL

50 STK 11" PLASTKULER
UNDERDEL
14 M/M VIRE OMSP. MED
14 M/M BLYTAU
+ KJETTING.

MASKER	TRAA	D LENGDI	E MASKER	14 M/M BLYTAU + KJETTING.
M/M	NR.	I MTR.	I EVING	TOTAL VEKT UNDER 400 KG. SIDER.
				1/2 HOGG 5,00 MTR STRF. 6,00 MTR ARM 6,00 MTR TAMP 2,60 MTR TOT. 36,00 MTR 22 M/M Ø COMB. TAU 1/2 HOGG 4,00 MTR STRF. 6,00 MTR ARM 22,40 MTR TAMP 2,60 MTR TOT. 35,00 MTR 28 M/M Ø FL. DANLINE
3200.0	240	22.4	4	2H1-2 3H1-1 6 25 25 29 29 29 45 67 88 9 MSK.
3200.0	240	32.0 4	9.5L -	4E 1/2 (%) (%) (%) (%) (%) (%) (%) (%) (%) (%)
1620.0	160	13.0 4	7	.5L 4E 1/4
400.0	48	14.0 4		34.5L 1-2 1-2 1-2 1-2 1-2 1-2 1-2
200.0		10.00 4		156 300 6E 1/2
100.0	24	20.0 4		199.5L \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\
38.0	12	11.4 4		298.5L 2-2 TYPE: FLYTETRAL 152 MSK X 3200 M/H TILSYMARER: 6080 X 80 MTR.OMKR: 486,4 DATO 10/8 93 TEGHNR: 333NY KONSTR: TH SKALA: 0 215 2-2 LEGILLE FRIENDS 10/8 MS 10/8
38.0	18	3.76 4		98.5L 150

