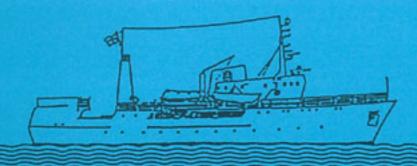
CRUISE REPORTS "DR. FRIDTJOF NANSEN"



## SURVEYS OF THE FISH RESOURCES OF NAMIBIA

Preliminary Report Cruise No 2/92

Part I Surveys of the hake stocks 20 October - 1 December 1992

The DR. FRIDTJOF NANSEN RESEARCH PROGRAMME is sponsored 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 conducted and planned under agreements between UNDP, Namibian authorities and the Institute of Marine Research, Bergen, Norway. Its execution is the responsibility of the Institute of Marine Research in cooperation with the Ministry of Fisheries & Marine Resources of Namibia.

The programme has comprised the following previous surveys:

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
- " 1/91 25 January to 23 March 1991
- " 2/91 23 October to 22 November 1991
- " 1/92 23 April to 21 June 1992

Reports were submitted after the completion of each survey. This cruise report describes the work and some of the findings of Survey 2 1992.

## PART I

# SURVEYS OF THE HAKE STOCKS

20 October - 1 December 1992



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#### 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 R/V "DR. FRIDTJOF NANSEN". The Ministry of Fisheries and Marine Resources, Windhoek has since agreed with NORAD on an extension of this programme.

The purpose of the programme was defined as follows:

The main objectives are descriptions of the distribution, composition and abundance of the most important resources of fish. The small pelagic fish (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 occupation of hydrographic stations along fixed tracks.

Possible taxonomic problems will be studied by sampling and examination by experts in cooperation with FAO's Fisheries Department.

### 1.2 SPECIFIC OBJECTIVES OF SURVEY 2/92, PART I

During the first part, 20 October to 22 November, the main objective is investigations of hakes and associated species and covering the whole shelf. The acoustic system will be used to observe off-shore horse mackerel and mid-water occurrence of the hakes. The survey design for the swept area trawl programme will be based on a distribution of hauls intended to cover the depth ranges of the two hake species. Biomass estimates of Cape hake will be based on post-stratification by density areas. Observations of surface temperatures will be made on a continuous basis for a study of comparison with satellite images. During the period 23-30 November daily samples of phytoplankton will be taken from the surface waters at selected sites to ground-truth a study on plankton distribution using satellite images, a pilot study in cooperation with the Natural Resources Institute in UK and the Weather Bureau of Namibia.

#### 1.3 PARTICIPATION

The scientific staff from Namibia were:

Helen Boyer (29 Oct - 7 Nov), Filamon Dausab (20 Oct - 7 Nov), Victor Hashoonga, Willem Nauiseb (20 Oct - 14 Nov), Bennie Ushona, Rudolf Cloete (8 Nov - 1 Dec), Richardt Charuchab (22 Nov - 1 Dec), Wolf Serrer (22 Nov - 1 Dec), Nick Poole (22 Nov - 1 Dec).

From Natural Resources Institute, England:

Richard Brown (22 Nov - 1 Dec).

The scientific staff from the Institute of Marine Research were:

Tore Strømme (from 7 Nov), Oddgeir Alvheim, Knut Korsbrekke (until 14 Nov), Valentine Anthonypillai (from 15 Nov), Martin Dahl and Tore Mørk.

#### 1.4 NARRATIVE

Figures 1a-c show the course tracks with the positions of the fishing and hydrographic stations. After departure from Walvis Bay on 20 October, work started near Orange River on 22 October following largely the course tracks and station grids used in the previous surveys. The hydrographic section off Panther Head was worked on 24 October. A short call was made at Lüderitz on 29 October to pick up one scientist. Coverage of the shelf up to St. Francis Bay, including the hydrographic profile off Hottentot Point, was completed by 30 October with a total of 64 successful swept area hauls. Weather conditions in this southern area were not favourable, but workable.

The profile off Conception Bay was worked on 2 November and the swept area trawling programme continued northwards with lines of stations about every 20 nm, taking care to locate both the inner and the outer limits of the distribution of the hakes. During previous surveys, aggregations of jellyfish in the shallow waters south of Walvis Bay constituted frequently a problem when trawling. The problem was not serious during the last survey.

A call on Walvis Bay was made on 7-8 November for change of scientific crew. A hydrographic profile was worked off Cape Cross on 9 November. Weather and sea conditions improved in the central area, and did not limit the work.

When working on a bottom trawl sampling profile off Ambrose Bay, one of the ships auxiliary engines broke down and it was necessary to return to Walvis Bay on 14 November for repair. A full engine overhaul with shipment of new parts was necessary and the vessel could not depart Walvis Bay before 22 November. To be able to complete the hake survey it was decided to reduce Fridtjof Nansen's participation in the following pilchard survey. The first week of the pilchard survey, which was a joint survey with R/V Benguela south of Walvis Bay, was therefore done without R/V "Dr. Fridtjof Nansen".

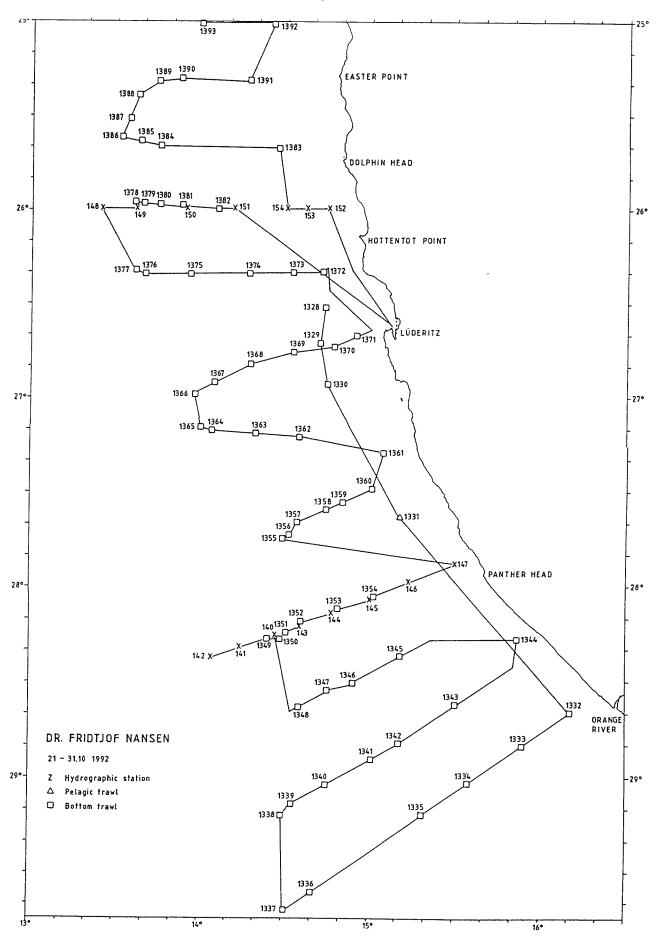


Figure 1a. Southern Region, Orange River to St. Francis Bay. Course tracks, fishing stations and hydrographic profiles.

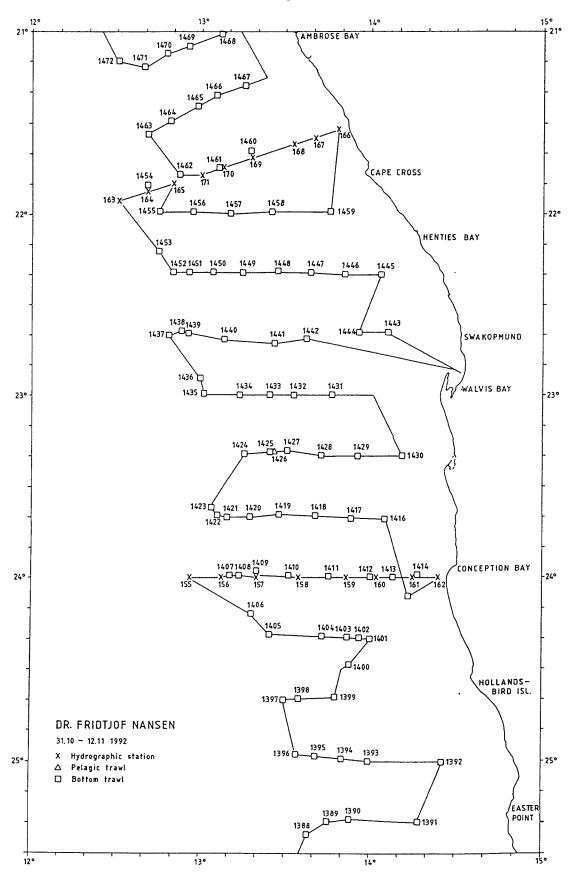


Figure 1b. Central Region, St. Francis Bay to Ambrose Bay. Course tracks, fishing stations and hydrographic profiles.

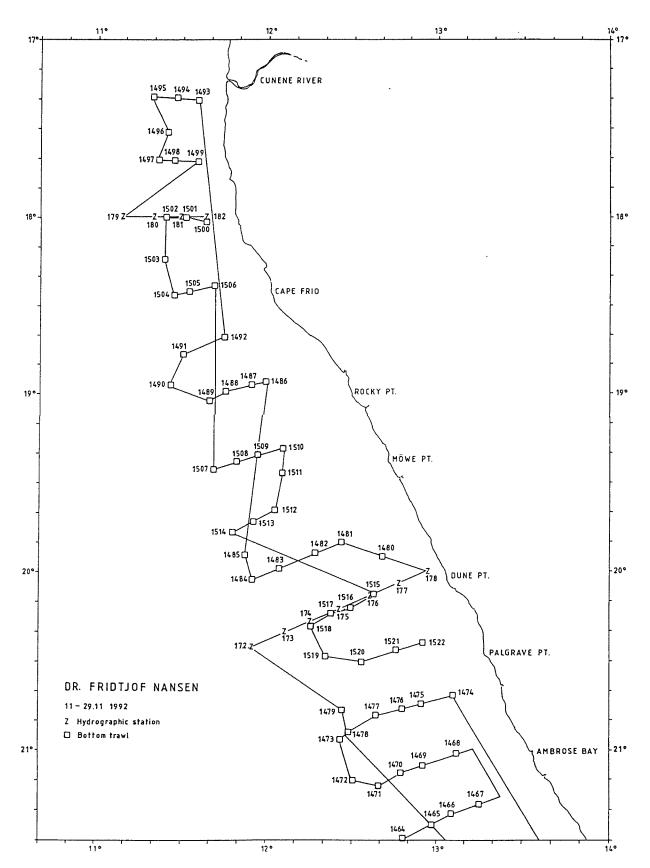


Figure 1c. Northern Region, Ambrose Bay to Cunene River. Course tracks, fishing stations and hydrographic profiles.

The work on the hake was retained off Ambrose Bay on the 23 November. In order to optimize daytime trawling and nighttime steaming, the survey net was modified leaving gaps during the northward coverage, to be completed when returning southwards. The vessel reached Walvis Bay on 30 November. The hydrographic profile off Dune Point was completed during the night of 24 November. The turning point off Cunene river was reached on 26 November. The standard hydrographic section at 18°S was completed during the night of 27 November. The weather conditions during the northern coverage were favourable.

#### 2 HYDROGRAPHY

Figures 2a-c show the sea temperature at 4 m of depth as observed with the ships thermograph and Figures 3a-c show the distribution of temperature and salinity in the five hydrographic transects worked.

The chart of surface temperature distribution and the profiles show evidence of intensive upwelling all along the coast up to Cape Frio. Conditions are similar to those found November 1991 and in May 1992. The intensity of the upwelling is near correlated to the force of the southerly winds.

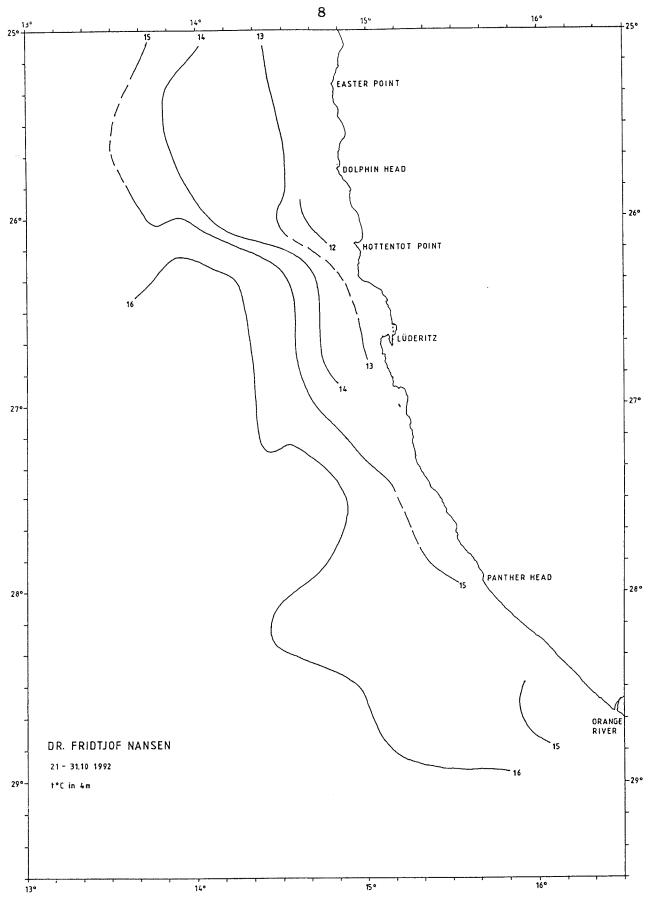


Figure 2a. Southern region. Distribution of sea temperature at 4 m of depth based on observations of the ships thermograph.

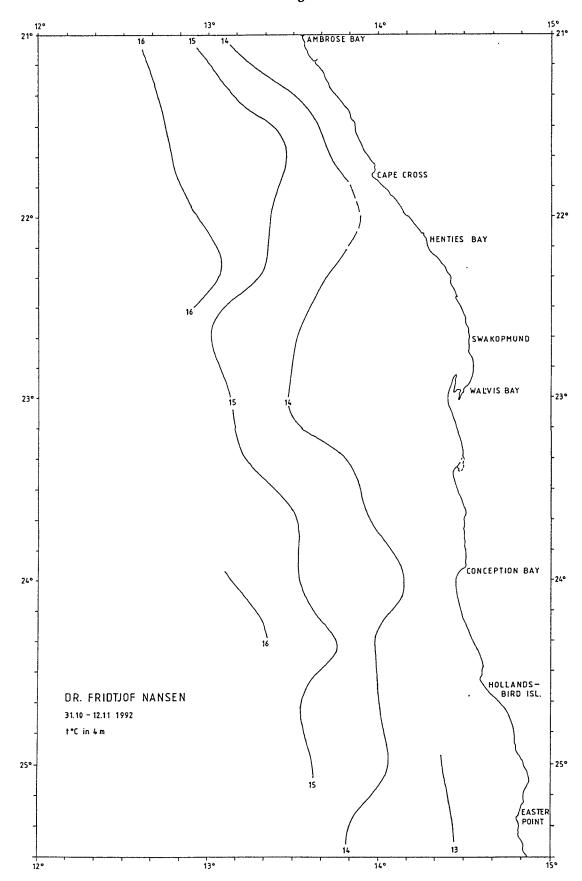


Figure 2b. Central region. Distribution of sea temperature at 4 m of depth based on observations of the ships thermograph.

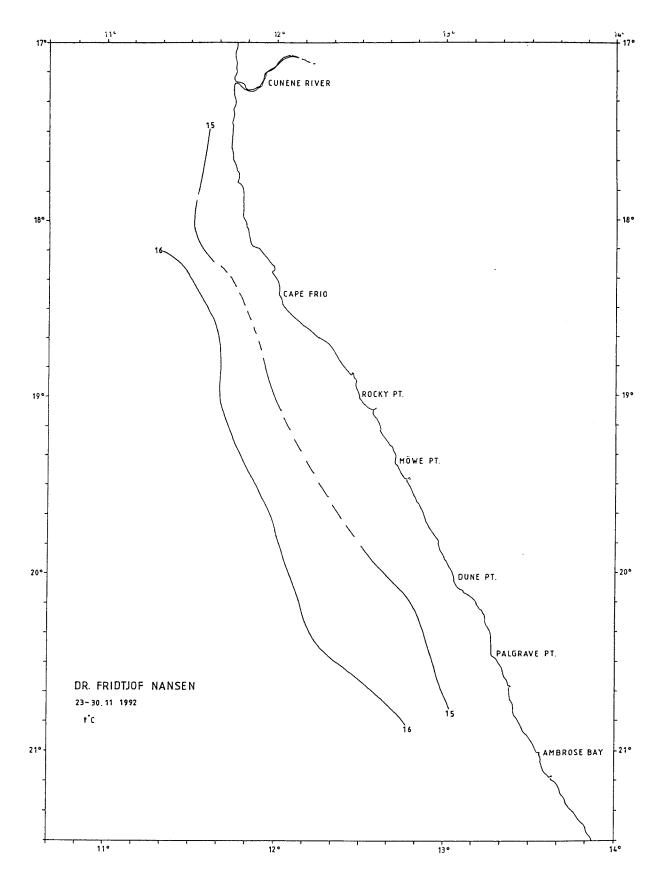


Figure 2c. Northern region. Distribution of sea temperature at 4 m of depth based on observations of the ships thermograph.

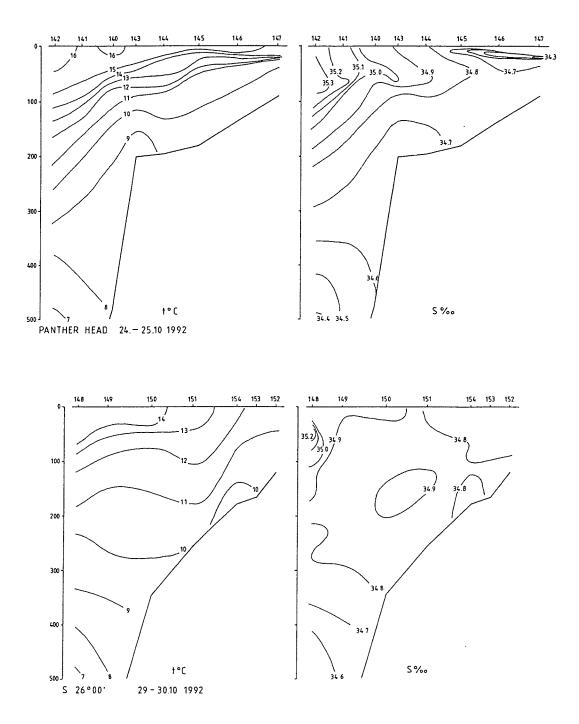


Figure 3a. Southern Region. Temperature and salinity in the standard profiles worked.

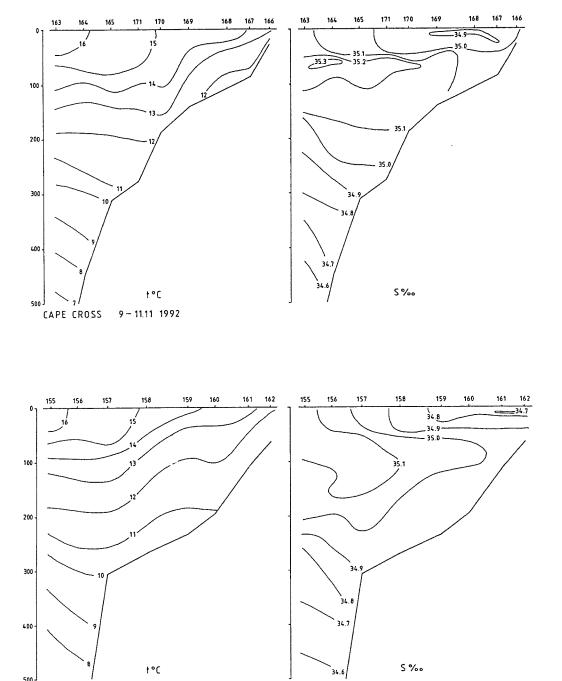
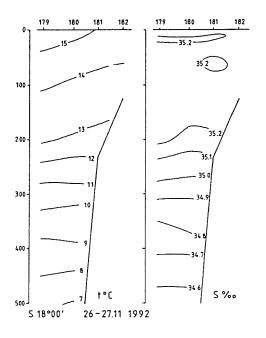


Figure 3b. Central Region. Temperature and salinity in the standard profiles worked.

CONCEPTION BAY 2.11 1992



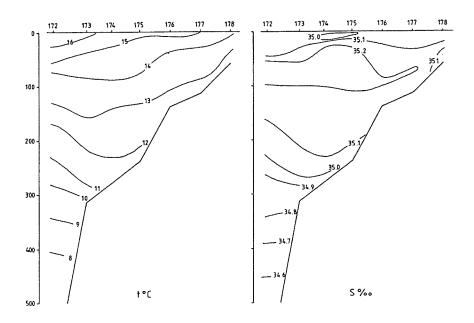


Figure 3c. Northern Region. Temperature and salinity in the standard profiles worked.

#### CHAPTER 3 RESULTS OF THE TRAWL SURVEY

#### 3.1 DISCUSSION OF METHODS

A description of the fishing gear and the acoustic instruments and their state is shown in Annex III.

In the trawl survey programme all catches were sampled for composition in weight and numbers by species. The bottom trawl has a headline of 31 m (float line), footrope 47 m, estimated headline height 5 m and distance between wings during towing about 18 m. Observations on the geometry of this type of trawl were made during Survey 2/90 and are described in the corresponding report. For conversion of catch rates to fish densities the area between the wings is assumed to be the effective fishing area i.e. q is equal to 1.

The problem of mid-water occurrence of hake and the effect on the swept area assessments were discussed in previous reports. Fish occurring above the headline of the trawl, more than 5 m from the bottom, must be assumed to cause an underestimate. The extent of this behaviour have varied between the surveys. Mid-water occurrence during the night has previously been observed but with varying frequency, and therefore fishing has been restricted to day-time as much as possible. Mid-water day-time occurrence has previously been found as a problem for the assessment, mostly in the northern region. A correction for the bias in the swept area estimates has since January 1991 been applied, using the acoustic estimates of fish found more than 5 m from the bottom. In this procedure a target strength used for cod was applied:  $TS = 20 \log 1 - 68$ .

Table 1 shows the observations and measurements of density of fish in mid-water during trawling in this survey. The extent of mid-water occurrence during daytime is seen to be low in all three regions, and the average acoustic correction is about 9%, 5% and 10% in the southern, central and northern regions respectively.

#### 3.2 SOUTHERN REGION, ORANGE RIVER TO ST. FRANCIS BAY

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

The catch compositions are shown in Table 2 which lists the catch rates standardized to kg/hour by main groups for the shelf and the slope separately. The mean catch rate for hake on the shelf is on the same level as during the previous survey in May 1992. The hake mean catch rate on the slope hauls has a high statistical variance in both surveys and part of this

difference can be associated low statistical precision. Kingklip catch rates are higher than in November 1991, but below the promising rates of May 1992. Monk rates are back to the level of November 1991, after a sudden increase in May 1991. It should be noted that both kingklip and monk show a patchy distribution, giving very high variance in the regional mean catch rates.

Table 1. Hakes. Frequency of observations of hake in mid-water during trawling. No of trawl stations with swept area densities and no. of stations with observations of hake above 5 m from bottom with acoustic density estimate. Density tonnes/nm².								
ORANGE RIVER - ST. FRANCIS BAY	DAY	NIGHT						
Trawl No. stations Mean density	49 18.0	15 13.2						
Acoustic obs. No. stations Mean density Average acou. corr.	11 6.8 9%	4 3.1 6%						
ST. FRANCIS BAY - AMBROSE BAY	DAY	NIGHT						
Trawl No. stations Mean density	64 35.0	13 12.7						
Acoustic obs. No. stations Mean density Average acou. corr.	23 5.0 5%	6 7.8 28%						
AMBROSE BAY - CUNENE RIVER	DAY	NIGHT						
No. stations Mean density	50 23.5	0						
Acoustic obs. No. stations Mean density Average acou. corr.	21 5.8 10%	0						

The depth distribution of the two hake species, expressed by catch rates converted to densities, are shown in Table 3. The mean density of cape hake on the shelf (100-250m) is about the same as in May, while at the slope the density is reduced. Contrary to findings of previous surveys the mean density is about the same in the 100-250m and in the 250-350m depth zones, but this is associated with different cohorts in the two habitats with younger fish on the shelf. The deep water hake has it highest density in the 350-450m bottom depth zone as previous, but the density is reduced compared to May 1992.

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

SHELF 50-259 m

ST.NO.	DEP.	Hakes	Monk	Kingklip	Soles etc.	Squid	Other
1328	165	382.4					110.6
1329	205	423.3					9.3
1330	210	168.4		6.0		3.2	27.4
1332	98	84.0	1.0	70.0	33.0	4.9	515.8
1333	151	64.2	1.9			16.3	66.9
1334 1335	175	256.9	0.7	1.0	0.9	31.6	70.4
	176	162.4	<i>c</i> -	67.7	6.5	0.5	77.0
1340 1341	212 173	121.1	6.5	0.0	0.5	0.9	87.9
1342	159	133.7	15.2	0.3	1.4	27.0	55.9
1343	176	159.4 112.0	3.5	1 4	4.0	24.0	75.2
1344	89	144.8	0.9	1.4	1.6	1.0	19.3
1345	171	297.1	3 4	150.0	0.5	1.0	54.8
1346	177	180.2	1.4		1.5	11.2	136.7
1347	193	458.9	6.2		2.8	26.9	66.4
1348	168	49.3				16.7	256.7
1352	211	231.2				0.7	- 105.0
1353	193	379.0				15.2	83.4
1354	176	339.3				7.3	324.8
1360	200	419.9				7.3 7.3	22.5 633.6
1361	148	322.6				3.2	104.5
1370	175	648.0				3.2	112.8
1371	127	485.5		13.9			10.9
1372	170	547.2		13.5		2.2	121.8
1383	159	1461.5				۷. د	46.8
1390	242	1414.8					162.0
1391	165	568.6					112.6
1392	119	352.9					721.6
1393	175	1789.8					101.4
MEAN		419.3	1.3	10.7	1.8	6.9	148.1

SLOPE 260-650 m

ST.NO.	DEP.	Hakes	Monk	Kingklip	Soles etc.	Squid	Other
1336	383	226.0	1.9	7.0		7.4	29.7
1337	544	28.6				2.5	45.6
1338	412	236.7	9.9	7.5	0.4	8.7	12.8
1339	292	1053.4		7.6		2.6	1086.4
1349	584	473.9		3.9		12.2	113.6
1350	435	1321.1		71.8		25.5	78.8
1351	325	902.4		77.8		12.5	32.0
1355	601	349.6				4.9	202.6
1356	491	529.6				15.0	112.3
1357	395	728.7		14.3		31.3	131.7
1358	330	692.8				17.2	126.4
1359	298	75.0		8.9			764.4
1362	316	581.1	2.5	15.0			36.8
1363	385	1157.0					166.8
1364	496	294.0				6.3	69.4
1365	599	130.2				28.6	238.9
1366	445	431.0		2.0		4.3	72.7
1367	397	979.2	36.0	6.4		14.0	98.3
1368	351	887.7				17.1	115.6
1369	280	268.4		133.8		4.3	26.3
1373	264	371.3	13.1		1.0	3.3	66.4
1374	307	765.6	12.2	1.7		0.4	89.1
1375	372	1231.9				20.9	136.9
1376	437	685.0				17.7	134.4
1377	560	785.4	21.2			22.1	665.2
1378	599	1539.6				303.0	776.7
1379	501	406.6	42.4			26.0	228.7
1380	401	509.2				5.9	128.6
1381	349	321.8	7.2	1.7		4.4	106.1
1382	277						
1384	341	605.8	3.0	20.4		1.6	101.2
1385	435	809.0	6.5			20.1	106.8
1386	643	63.5				81.3	255.2
1387	542	164.8				107.9	344.5
1388	450	487.8				14.0	253.3
1389	307	1264.8				, , , , ,	79.4
MEAN		593.3	4.3	10.6	0.1	23.4	195.4

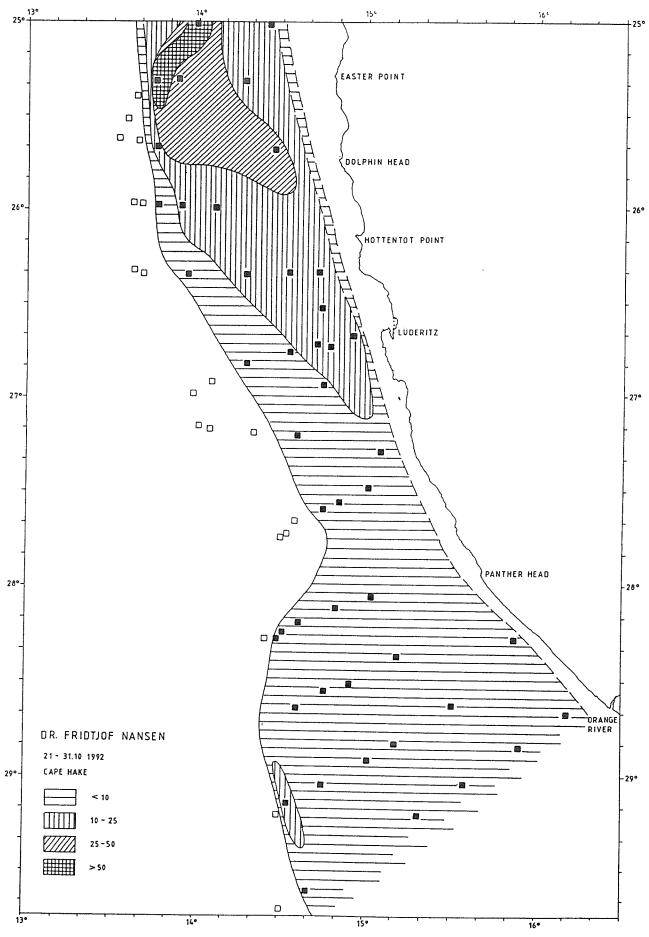


Figure 4. Southern Region. Distribution of Cape hake.

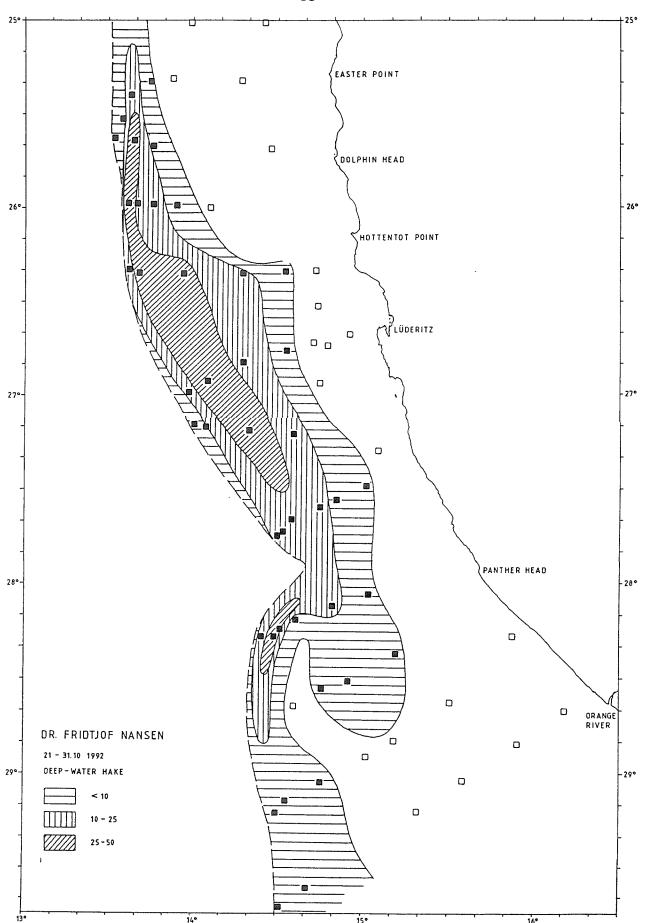


Figure 5. Southern region. Distribution of deep water hake.

Table 3. Depth distribution of the two hake species, Orange River to St. Francis Bay. Mean densities tonnes/nm² and mean catch rates kg/hour.									
	100-250 m	250-350 m	350-450 m	450-550 m	550-650 m				
Cape hake Density Catch rate	11.6 350	12.2 370	1.1 30	0.2					
Deep w. hake Density Catch rate	1.7 50	7.9 240	23.8 710	10.1 300	18.2 550				
No. of hauls	29	11	12	6	6				

The distribution of the two hake species based on plots of densities by fishing stations is shown in Figure 4 and 5. The densities include the acoustic estimates of fish present above the 5 m bottom channel during trawling as discussed above. The Cape hake was only found in low densities south of Lüderitz, a picture consistent with the findings of the three previous surveys. In 1990 however, aggregations of cape hake was found also in the south during two surveys. The distribution of deep water hake follows the same pattern as found during the two previous surveys, with an aggregation between 26° and 28°S.

Biomass estimates based on a post-stratification of the estimated densities, as shown in the figures of fish distribution, give  $160\ 000$  tonnes for the Cape hake and  $125\ 000$  tonnes for the deep water hake, Table 4. This is a reduction of  $40\ 000$  and  $20\ 000$  tonnes for the respective two species compared to the previous survey in May. The 95% confidence limit gives a range of  $\pm 14\%$  on the Cape hake estimate.

Table 4.		Francis Bay. Estimates surveys, 1 000 tonnes.
	Cape hake	Deep water hake
1/90	130	22
3/90	130	25
1/91	113	31
2/91	80	82
1/92	200	145
2/92	160	125

The size compositions of the Cape hake are shown in Annex I. On the shelf (50-260m) the dominating cohort has a modal size of 21 cm, while at the slope bigger fish is dominating. Figure 6 show the cumulative relative size distribution in number and biomass of the cape hake. The figure shows that on the shelf 92% in numbers and 70% of the biomass is below 30 cm length, while at the slope the corresponding figures are 30% and 5% in numbers and biomass respectively. For the whole bottom depth zone 50-650m the "fishable" biomass beyond 35 cm length is 9% in numbers and 47% in weight. This corresponds to about 100 million fish and 75 000 tonnes, estimated.

In lack of length-at-age data a first attempt has been made to split the young fish into age cohorts by optimizing normal distributions on the empirical length distributions. A close fit to the lower part of the distribution was found with two cohorts with mean length on 22.5 and 27.6 cm respectively. The result from the analysis and the derived estimates on abundance are shown in Table 5.

Table 5.	Southern Region, Orange River to St. Francis Bay. Cape hake. Estimated age-cohorts from optimized normal distributions.						
Mean length	Sigma	Fraction of young fish	Fraction of all fish	Biomass million N			
22.5 27.6	2.5 2.8	0.71 0.29	0.62 0.25	680 275			

The size composition of the deep water hake, see Annex I, shows a dominance of fish with the 30 cm modal length, probably the 1989 year-class, but bigger fish are also well represented. The cumulative size distributions, Figure 7, show that about 66% of the biomass or roughly estimated 80 000 tonnes is of more than 35cm length. This corresponds to 27% of the number of fish.

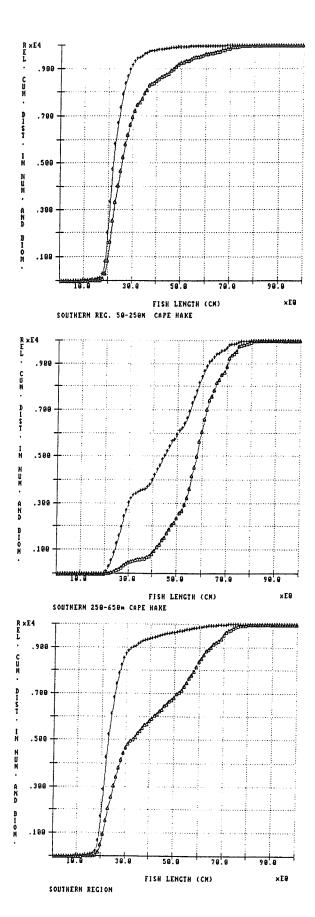
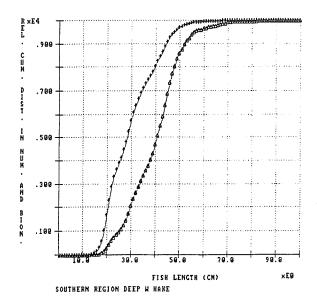


Figure 6. Southern Region. Cumulative relative size distribution of Cape hake at the shelf (50-250m), at the slope (250-650m), and combined. Legend: + + +: Numbers  $\triangle \triangle \triangle$ : Biomass



Southern Region. Cumulative relative size distribution of deep water hake at the slope (250-650m). Legend: + + +: Numbers  $\triangle$   $\triangle$   $\triangle$  Biomass Figure 7.

## 3.3 CENTRAL REGION, ST. FRANCIS BAY TO AMBROSE BAY

The catch compositions for the shelf and the slope are shown in Table 6 by main groups. For the hakes the mean catch rate on the shelf is about 60% higher than in the two previous surveys, while on the slope the rates are about as during the two previous surveys. The catch rates for horse mackerel have increased to four times the level of November 1981 and twice the level of May 1992, and have reached the same level as during the February survey 1991. The catchrates of monk and squid was low and in line with the findings from the previous surveys.

The depth distribution of the two hake species is shown in Table 7. In the shallow range, 100-250 m the catch rates and the derived density estimates have increased about 50% since the last survey. This is due to heavy immigration of young fish around 23cm modal length settling into the demersal community. In the deeper depth ranges the densities are very consistent with the findings of the two previous surveys.

Table 6. Central Region. Catch rates by main groups in bottom trawl hauls standardized to kg/hour for the shelf and slope.

SH	F۱	F	50-	2	59	m

ST.NO.	DEP.	Hakes	Monk	Kingklip	Horse mck.	Squid	Other
1394	217	405.6			8.8	4.0	34.6
1401	198	440.0					11.3
1402	228	183.4	4.1			8.8	226.1
1411	240	545.0	4.0		27.4	2.3	105.4
1412	202	843.3			17.4		6.2
1413	143	2823.5					
1414	103	236.8					63.2
1415	120	2727.3					
1416	153	3000.0					
1417	173	3665.8			682.0		3.9
1418 1419	200	1260.0	3.6		532.9	0.5	114.5
1419	243	1497.6	85.9		3679.2	13.9	191.5
1427	214 155	1191.5 1748.0			970.5	1.3	249.4
1429	152	4628.6			540.0		85.0
1430	116	4020.0			55.8		1000 0
1431	140	4842.0			160.0		1200.0
1432	183	1544.4	1.8		169.2 336.6		156.6
1441	257	466.4	4.0		69.2	F 1	45.6
1442	133	2917.2	4.0		4474.8	5.4	122.0
1443	108	0.2			44/4.0		44.2 100.0
1444	121	4102.0				14.0	35.1
1445	88	,,,,,,,				14.0	4.1
1446	114	30.0					300.0
1447	125	3132.0			113.7	8.1	169.9
1448	163	3376.8	2.7		,,,,,,	0.1	59.4
1449	228	476.6	2.9		422.6	11.5	75.4
1450	254	1024.8	1.7		1801.8	7.8	179.6
1457	244	3404.7	1.5		443.2		19.3
1458	154	1266.2			120.0	0.5	107.8
1459	98	7.6					264.0
1460	143	1880.5					8.1
1461	213	900.2	5.8		58.0	0.8	253.2
1465	250	720.3	4.2		70.0	0.6	219.8
1466	151	2185.1			672.0	2.2	65.0
1467	122	1231.6			5.7		4.9
1468	118	2226.0	0.3		11.1		60.3
1469	247	632.6	5.5		205.1		217.7
MEAN		1620.1	3.4		407.6	2.2	126.4

Table 6 (continued) SLOPE 260-600 m

ST.NO.	DEP.	Hakes	Monk	Kingklip	Horse mck.	Squid	Other
1395	360	256.0	12.7	1.4	14.1	8.7	51.7
1396	548	172.0				13.9	491.1
1397	500	197.1				21.0	240.2
1398	400	586.3	8.9			5.9	96.1
1399	296	1065.9	14.0			6.1	101.5
1400	260	681.5				10.6	125.6
1403	273	224.6	6.3		0.5	1.3	152.1
1404	301	300.8	17.2			4.8	125.2
1405	359	512.2				9.8	71.8
1406	460	171.0	2.7			4.7	68.7
1407	551	134.3	4.9			19.3	187.8
1408	399	315.4	2.9			28.6	175.5
1409	304	433.1			22.1	2.8	172.2
1410	269	1831.7	5.7		415.6		179.4
1420	300	475.7			28.9	9.4	156.5
1421	377	167.5			21.1	21.0	175.3
1422	474	169.4	2.7		0.9	71.4	182.7
1423	580	24.8				21.2	192.2
1424	358	668.6				55.9	80.9
1425	285	143.4	3.1		148.1	5.5	207.1
1433	310	235.0	10.7		13.0	-	50.4
1434	348	296.8			2.7	7.4	79.3
1435	446	475.5	32.7			17.9	218.3
1436	399	288.5				17.5	155.3
1437	543	48.1				13.8	38.2
1438	376	265.7	1.3		0.3	8.4	68.3
1439	331	516.7		4.6		2.8	62.0
1440	306	569.8			35.3		86.1
1451	301	895.5	0.4		207.2	- ^	79.8
1452 1453	377 476	349.8 180.4	0.4			7.9	250.0
1453	437					6.3	297.1
1455	353	191.8 1173.9	3.7			9.0	150.3
1455	305	480.6	3.7		111 6	0.5	157.8
1462	303	573.8			111.6	9.8	157.4
1463	370	373.8 394.6		2.4	88.3	10 7	101.7
1463	309	394.6 518.3	1.0	2.4	0.3	13.7	197.7
1470	318	1779.4	1.9		9.3	20.6	148.4
1470	360	437.0	1.6			20.6	201.9
1472	460	209.5	1.0			2.0 7.3	105.6
							85.9
MEAN		460.3	3.3	0.2	28.0	11.7	148.1

Table 7. Depth distribution of the two hake species, St. Francis Bay Ambrose Bay. Mean densities tonnes/nm² and mean catch rates. Kg/hour.									
	100-250 m	250-350 m	350-450 m	450-550 m	550-600 m				
Cape hake Density Catch rate	53.6 1610	20.1 600	10.5 320	0.8 25	0.1				
Deep w. hake Density Catch rate		0.3 10	3.1 95	4.5 130	2.7 80				
No. of hauls	33	20	14	7	2				

Figure 8 and 9 show the distribution of the two hake species over the central area. The high density belt of Cape hake inshore from off Conception Bay to off Cape Cross is remarkably similar to the distribution pattern in November 1991, and represents mainly a new recruit class with a modal length of 22 cm, assumed to be the 1991 year-class. Similar high density areas of juvenile fish inshore was found in the 1990 and 1991 surveys when the 1989 and

1990 year-classes were recruited to the stock. In deeper waters spots of high densities of large size fish were located. The length frequency distributions (Annex I) show that the dominating part of the population on the shelf is between 20 and 30 cm. The relative slack upper tail of the distribution probably indicates two cohorts in the size assembly: the above mentioned 1990 year-class and at the upper tail, the shelf-remnants of the previous year-class.

In Figure 10 and 11 the relative size distribution by number and biomass are shown as cumulative distributions for the two hake species. The relative part of the adult stock that is fish of 35 cm and larger, is 5% by numbers and 33% by weight of the population in the central region. The corresponding figures for the deep-water hake are 65% by numbers and 85% by weight.

In a cohort analysis on the length frequency distributions two normal distributions with means 22.5 and 27.6 cm gave the closest fit as in the southern region. The result from the analysis is shown in Table 8.

Table 8. Central Region, St. Francis Bay to Ambrose Bay. Cape hake. Estimated age-cohorts from optimized normal distributions.								
Mean length	Sigma	Fraction of young fish	Fraction of all fish	Biomass million N				
22.5 27.6	2.04 3.01	0.7 0.2	0.72 0.18	3 500 880				

Table 9 shows the regional biomass estimates by surveys. The 540 000 tonnes on the Cape hake from the last survey represents a doubling of the estimated biomass from May 1992 and is also about 80% higher than the previous year, in November 1991. The recruits below 35 cm makes up 370 000 tonnes while in November 1991 this group represented 160 000 tonnes. The "fishable" biomass is estimated to 170 000 tonnes while in November 1991 it was 140 000 tonnes. The main increase is therefore due to very strong recruitment from the 1991 year-class, partially mixed with the shelf remaining part of the 1990 year-class. The 95% confidence limit on the Cape hake estimate is  $\pm 9\%$ .

Table 7.	St. Francis Bay to Ambrose Bay. Estimates of total biomass by surveys, 1 000 tonnes.					
	Cape hake	Deep water hake				
1/90 3/90 1/91 2/91 1/92 2/92	180 219 150 302 261 542	4 6 6 13 15				

For the deep water hake the estimate is 15 000 tonnes, a figure very consistent with the results from the two previous surveys.

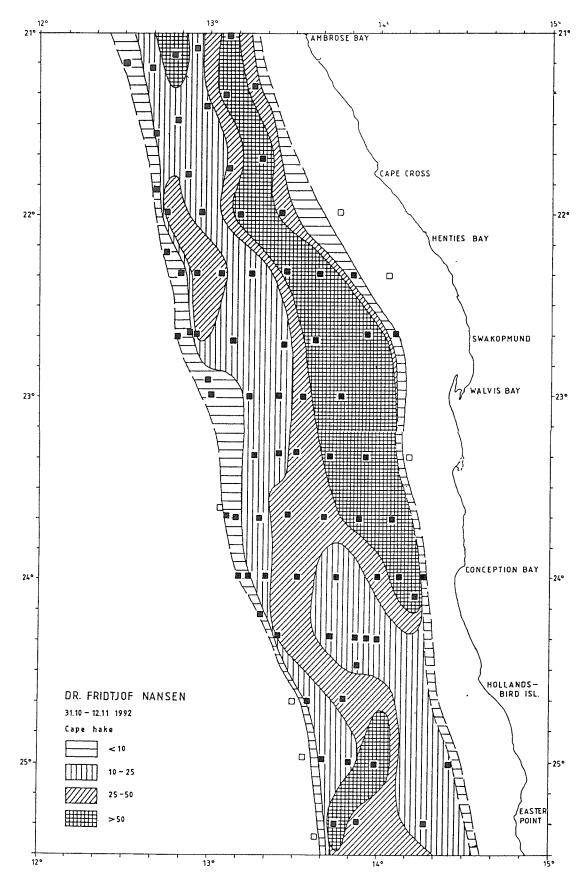


Figure 8. Central Region. Distribution of Cape hake.

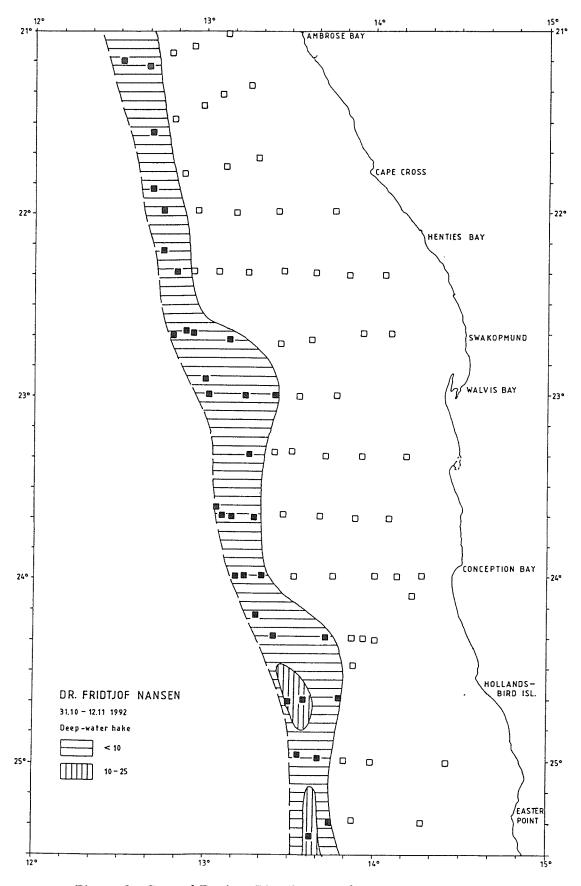
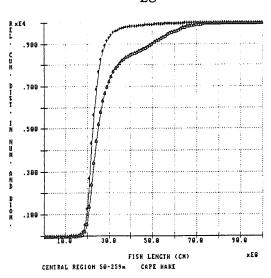
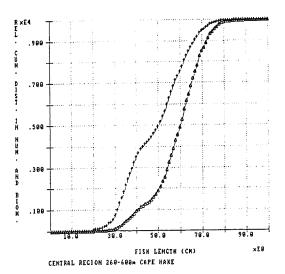
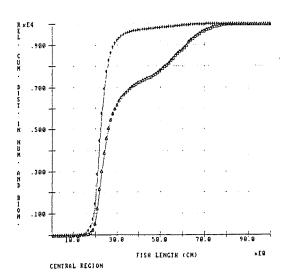
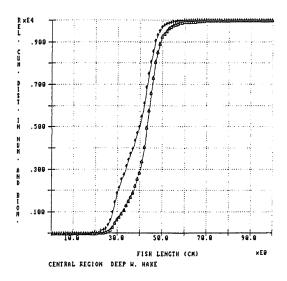


Figure 9. Central Region. Distribution of deep water hake.









Central Region. Cumulative relative size distribution of deep water hake at the slope (250-650m). Legend: + + : Numbers  $\triangle$   $\triangle$   $\triangle$ : Biomass Figure 11.

## 3.4 NORTHERN REGION, AMBROSE BAY TO CUNENE RIVER

Table 10 shows the catch rates by main groups for the shelf and the slope separately. The mean rates for the hakes have increased on the shelf and is slightly reduced on the slope since the previous survey in May 1992. The mean rate on large-eye dentex has declined since the last survey, but are considerable higher than in November 1991. The mean by-catch of horse mackerel was about 700 kg/hour and follows an increasing trend since the sudden decline in November 1991.

Table 11 shows the depth distribution of the hakes. The Cape hake is found in highest densities on the shelf due to dominance of strong year-classes of young fish. In the 250-350 depth range the mean rates have declined slightly since the previous survey, from 780 to 560 kg/hour.

Table 11 Depth distribution of the hake species, Ambrose Bay to Cunene River. Mean densities tonnes/nm² and mean catch rates. Kg/hour.							
	100-250 m	250-350 m	350-450 m				
Cape hake Density Catch rate	29.6 890	18.6 560	17.6 530				
Deep w. hake Density Catch rate		0.1 1.8	2.9 85	•			
Benguela hake Density Catch rate	0.3 8						
No. of hauls	23	16	10				

Figure 12 shows the distribution of Cape hake in the region, calculated from the catch rates and with adjustments for fish in mid-water.

The size compositions are shown in Annex I. The size of the Cape hake has been consistently highest in the northern region in all surveys. Figure 13 show the relative cumulative size distribution of the Cape hake on the shelf and the slope. The young fish below 35 cm length makes up 75% of the number and 37% of the biomass of fish on the shelf, while at the slope the respective figures are 6% and 2%. For the northern region in total the young fish constitutes 73% in number and 25% by weight of the biomass.

The modal analysis gave close fit to 4 normal distributions, with means on 17.5, 23.5, 27.0 and 33.5 cm, Table 12.

Table 10. Northern Region. Catch by main groups in bottom trawl hauls standardized to kg/hour for the shelf and slope.

SHELF 50-259 m

ST.NO.	DEP.	Hakes	Monk	Dentex	Horse mck.	Squid	Other
1474	112	522.6			125.4		3.5
1475	163	2005.9		8.2	267.8	1.3	8.6
1476	254	588.0	1.6		60.0	7.4	323.5
1480	115	962.3			449.8	7.0	19.0
1481	148	78.7		734.1	817.0	0.8	42.8
1482	215	151.9			106.2	0.1	93.2
1486	177	256.0		292.0	43.0		169.2
1487	235	590.3	0.7	289.8	6.1	0.7	200.9
1491	255	670.2			11.4	11.4	686.0
1492	223	328.1		337.0	364.0		175.8
1493	117	231.2			210.4	8.1	268.9
1494	183	898.0		97.6	1934.0	3.0	537.8
1496	247	3962.4		186.7	9.1		79.4
1498	193	1736.4		76.2	165.6		861.3
1499	127	464.6		1195.4	1771.6		546.1
1500	122	218.1		181.2	57.1	0.4	90.6
1501	220	405.3		58.2	23.2		66.0
1505	232	2143.0		176.0	91.2	0.8	677.3
1506	141	2825.2		729.3	1821.6	0.7	154.4
1510	232	420.8		23.8	1320.0	2.6	4.0
1511	253	36.0		0.9	51.0		11.6
1515	134	365.0	9.1	48.8	117.6	0.6	95.3
1516	207	129.0			6537.7		
1517	248	138.6		29.7	62.4		20.0
1521	148	301.5	0.8	9.0	8.1	1.2	11.8
1522	115	1794.0			1704.0	4.8	45.0
MEAN		854.7	0.5	172.1	697.5	2.0	199.7

SLOPE 260-700 m

ST.NO.	DEP.	Hakes	Monk	Dentex	Horse mck.	Squid	Other
1473	447	271.8				1.70	258.6
1477	326	651.1	18.0		4.1	3.36	48.4
1478	379	405.6				5.36	117.1
1479	334	504.4	2.9		16.8	4.26	132.1
1483	300	1097.1	5.0		74.7	20.00	279.4
1484	371	178.4	1.0			4.30	137.8
1485	366	249.0				6.08	96.0
1488	295	910.0	3.3	273.4	20.3	5.34	131.7
1489	277	886.3	1.4	17.1	88.2	3.74	267.3
1490	403	893.9				13.20	345.3
1495	360	369.4		7.2		13.40	165.1
1497	404	1740.4	17.2			5.60	333.8
1502	407	1703.4	1.3			7.96	384.6
1503	602	31.0				1.76	300.9
1504	363	477.2				20.60	222.6
1507	335	1110.6	6.3			6.81	181.5
1508	313	303.2		9.9	3.1	5.46	117.2
1509	283	81.0	2.1	21.6	31.7		208.3
1512	295	369.3	2.2	10.6	30.0	1.28	69.6
1513	334	794.4	2.8			4.32	219.1
1514	375	288.9				5.19	156.9
1518	283	165.0	0.3	2.9	117.9		44.4
1519	294	1427.4	2.6		67.5	2.98	92.3
1520	265	257.6		3.6	132.0		139.5
MEAN		631.9	2.8	14.4	24.4	5.95	185.4

Table 12. Northern Region, Ambrose Bay to Cunene River.
Cape hake. Estimated age-cohorts from optimized normal distributions.

Mean length	Sigma	Fraction of young fish	Fraction of all fish	Biomass million N
17.5 23.5 27.0 33.5	1.5 1.8 2.5 3.5	0.15 0.7 0.15	0.09 0.41 0.09	65 310 65

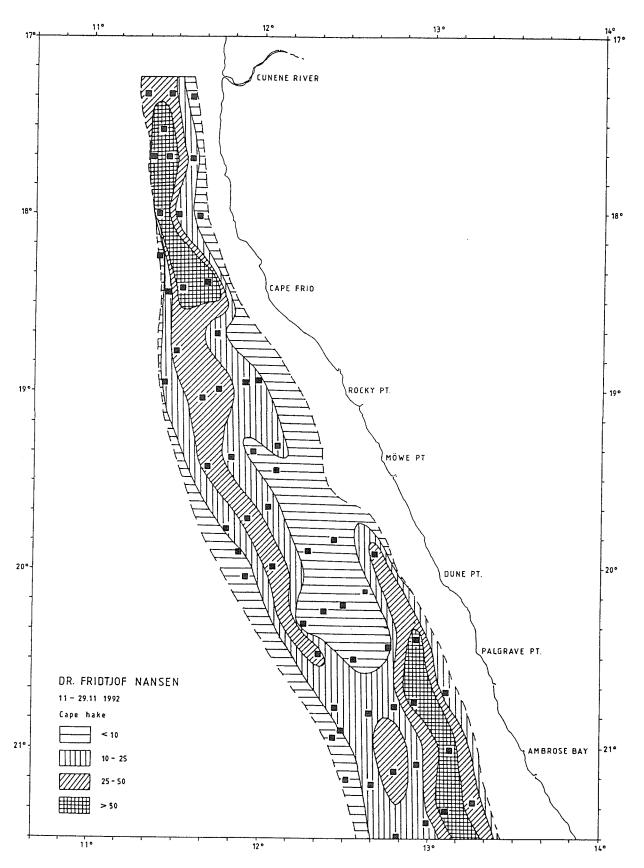
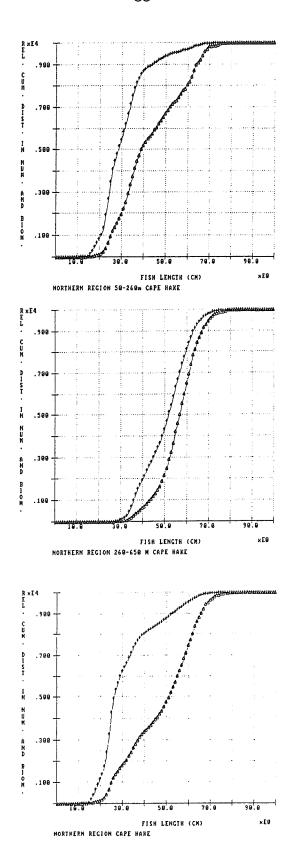


Figure 12. Northern Region. Distribution of Cape hake.



The total biomass of Cape hake in this region is 190 000 tonnes, of which 143 000 tonnes are of fishable size (36 cm and larger). This is identical to the estimated fishable biomass from the previous survey in May. The time series of the estimates, Table 13, shows a not significant increase in the biomass of Cape hake in the northern region. The confidence limits of the estimate is  $\pm 13\%$ .

Table 13	Ambrose Bay to Cunene River. Estimates of total biomass by surveys, 1 000 tonnes.							
	Cape hake	Deep water hake						
1/90	180							
3/90	105+midw.							
1/91	200							
2/91	140	2						
1/92	185	4						
2/92	190	8						

### 4 CONSIDERATIONS OF THE SURVEY RESULTS

The present survey is the 6th in a series started in early 1990 and in each of which the distribution of the hake stocks over the whole Namibian shelf has been covered. Table 14 shows the effort spent in these hake investigations.

Table 14. Effort in Namibian hake surveys 1990-1992. Number of swept area fishing stations, number of samples (mostly by sex) and number of length measurements in thousands.								
Survey			Orange R St. Francis	St. Francis- Ambrose Bay	Ambrose- Cunene	Total		
1/1990 25.1-10.3	No.	stations samples measured	37	73 73 10.7	37 25 2.6	169 114 18.6		
3/1990 11.9-6.10	No.	stations samples measured	68	51 106 10.3	34 77 5.6	129 251 25.2		
1/1991 25.1-28.2	No.	stations samples measured	104	77 170 13.3	56 114 6.9	174 388 27.0		
2/1991 23.10-21.11	No.	stations samples measured	52 110 7.1	69 132 14.3	49 110 9.6	170 352 21.0		
1/1992 23.4-21.5	No.	stations samples measured	57 136 9.0	60 141 11.2	47 102 8.2	164 379 28.4		
2/1992 21.10-29.11	No.	stations samples measured	64 188 13.9	78 194 13.3	50 155 9.1	192 537 36.3		

A summary of the estimates of the mean density of the hakes by depth strata is shown in Table 15. The mean density of the deep-water hake has declined only slightly from its sudden rise registered during the previous survey. This difference is probably within the precision range of the estimates. The Cape hake shows increase in the shelf waters down to 250m, especially in the central area. The increase is mainly from a new cohort, the 1991 year-class, settling on the bottom. In the deeper waters there is a decline in the densities in the south and in the north, while in the central region there is an increase. The differences can be explained mainly by migration between the regions, as on average for the whole slope the density level is practically the same as during the previous survey in May.

Table 15. Depth distribution of the hake species. Mean densities in tonnes/nm².								
	100-250 m	250-350 m	350-450 m	450-550 m	550-650 m			
SOUTHERN REGION								
Cape hake								
1/90 3/90	21.9 11.5	4.4 6.1	0.1					
1/91	11.3	8.8	0.9					
2/91	6.3	12.5	0.7	0.7				
1/92 2/92	12.6 11.6	28.4 12.2	4.6	0.0				
2/92 Deep water hak		12.6	1.1	0.2				
1/90		1.4	5.0	1.2				
3/90 1/91	0.1	6.3 4.4	1.2	0.4				
2/91	0.3	4.4 8.9	6.0 14.9	1.1 4.9				
1/92		8.9	34.8	4.0	•			
2/92	1.7	7.9	23.8	10.1	18.2			
CENTRAL REGION								
Cape hake								
1/90	27.1	7.4	0.4					
3/90 1/91	38.6 14.5	8.3 9.1	2.5 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	0.1			
Deep water hak 1/90	e		1.6	1.4				
3/90	0.2	0.4	0.9	0.9				
1/91	0.2	0.1	0.8					
2/91 1/92		0.3 1.3	5.3 6.8	5.6 1.6				
2/92		0.3	3.1	4.5	2.7			
NORTHERN REGION								
Cape hake								
1/90	41.3	20.9	1.0					
3/90	25.9	15.1						
1/91 2/91	15.0 13.6	27.0	11.5	4.2				
1/92	25.4	23.5 26.1	24.3 15.5	4.3				
2/92	29.6	18.6	17.6					

Table 16 shows the biomass estimates for the two stocks by regions and the corresponding data for the five previous surveys. For the Cape hake there is a remarkable increase of 200 000 tonnes in the biomass due to entrance of the new cohort into the demersal community. This cohort is especially abundant on the shelf between 100 and 250 m in the central region. Beyond 250m the larger fish dominates. The total fishable biomass, defined as fish beyond 35 cm length, is 490 000 tonnes, an insignificant decline from the 500 000 tonnes estimated in May. The effect of the fishing thus seems to have been compensated by growth in the remaining population and through migration by new recruits from the shelf into the fishing zone.

Table 16. Summary of estimates of biomass of the two hake species by surveys and areas. Tonnes.									
TOTAL BIOMASS									
	Feb-Mar 1990	Sep-Oct 1990	Jan-Feb 1991	0ct-Nov 1991	Apr-May 1992	0ct-Nov 1992			
SOUTHERN REGION Cape hake Deep w. hake	130 000 22 000	130 000 25 000	126 000 31 000	80 000 83 000	200 000 145 000	160 000 125 000			
CENTRAL REGION Cape hake Deep w. hake	180 000 4 000	219 000 6 000	150 000 6 000	302 000 13 000	261 000 15 000	542 000 15 000			
NORTHERN REGION Cape hake Deep w. hake	180 000	105 000*	200 000	140 000 2 000	185 000 4 000	190 000 8 000			
TOTAL	516 000		513 000	620 000	810 000 1	040 000			
TOTAL FISHABLE	220 000		300 000	370 000	503 000	490 000			

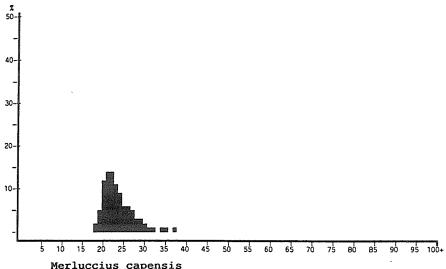
<sup>\* +</sup> hake in mid-water.

Attempt has been made in the report to estimate the strength of the new year-class, the 1991 year-class, which now has settled into the demersal community. The estimates on recruits based on the current survey data are shown in Table 17 together with previous observations. The recent estimate is 2.4 times higher than the successful recruitment of 1990, and represent a new maximum in the time-series. The new recruitment is considered very favourable for the fisheries in the years to come. However, the very high densities of young fish at the shelf can be the subject of density dependent growth and mortality, as for example reduced growth and increased predator pressure due to increased food competition in the fish community. Cannibalism from the older hake could also increase. To follow the "health" condition of the recruits it is advisable to monitor them by monthly samples from the high density areas and by this acquire information on the individual growth and changes in community structure.

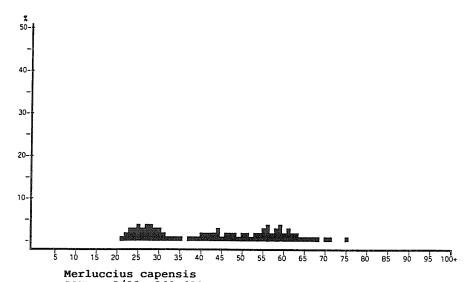
Table 17 Estimates of strength of recent year-classes of Cape hake. Cohort population numbers at about two years of age for the groups assumed to have been spawned in 1988, 1989, 1990 and 1991.  Millions of fish.									
Year		1988	1989	1990	1991				
Region	south	980	100	160	680				
*1	centre	1 320	170	1 710	3 500				
"	north	10	10	20	310				
Total		2 310	280	1 890	4 490				
Survey/	/ear	3/90	2/91	2/91	2/92				

During the survey about 3 000 otoliths were collected from the whole size range of the two hake species. In order to be able to decompose the size distributions into age cohorts, the reading of these otoliths should have high priority. The established survey methods are well suited to assess the strength of the two-year and three-year classes about two and one year before they enter the fishery, and with an age/size key for the population available, better predictions on expected future yields from these recruits can be made.

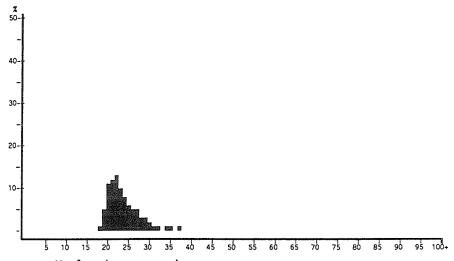
## Annex I Size composition of main stocks



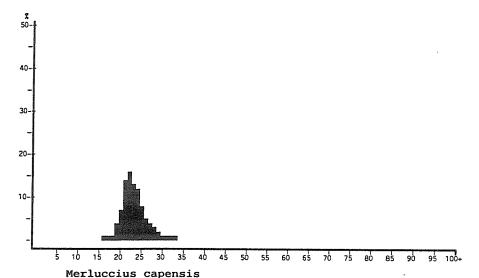
Merluccius capensis SOUTH 2/92 50-259m Pooled sample (weighted by catch). MEAN LENGTH = 24.09cm N= 5448 NUMBER OF SUBSAMPLES: 65



SOUTH 2/92 260-650m
Pooled sample ( weighted by catch).
MEAN LENGTH = 44.48cm N= 1101
NUMBER OF SUBSAMPLES: 30

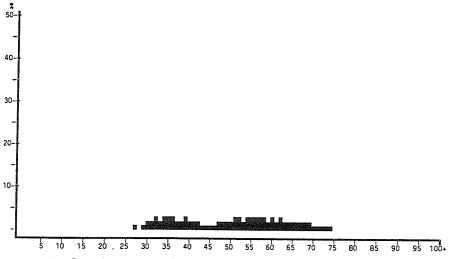


Merluccius capensis SOUTH 2/92 TOTAL Pooled sample ( weighted by catch). MEAN LENGTH = 25.91cm N= 6549 NUMBER OF SUBSAMPLES: 95

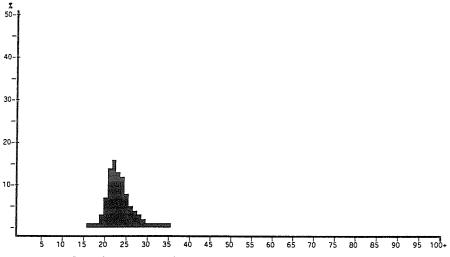


Merluccius capensis
CENTRAL 2/92 50-259m
Pooled sample ( weighted by catch).

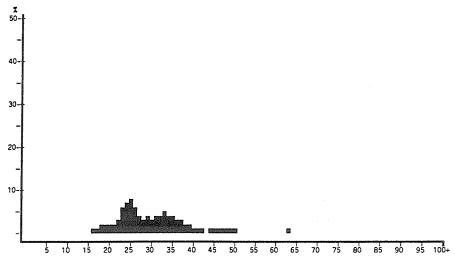
MEAN LENGTH = 23.95cm N= 8678
NUMBER OF SUBSAMPLES: 70



Merluccius capensis CENTRAL 2/92 260-600m Pooled sample ( weighted by catch). MEAN LENGTH = 49.65cm N= 3059 NUMBER OF SUBSAMPLES: 67

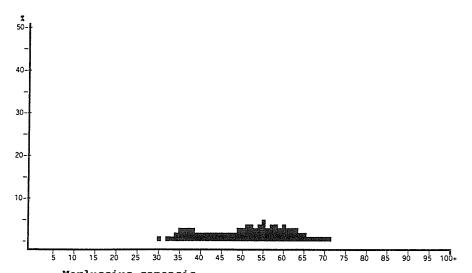


Merluccius capensis CENTRAL 2/92 TOTAL Pooled sample ( weighted by catch). MEAN LENGTH = 24.82cm N=11737 NUMBER OF SUBSAMPLES :137

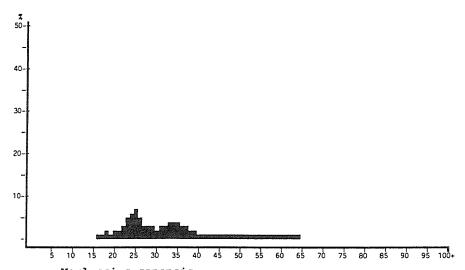


Merluccius capensis
NORTH 2/92 50-259m
Pooled sample ( weighted by catch).

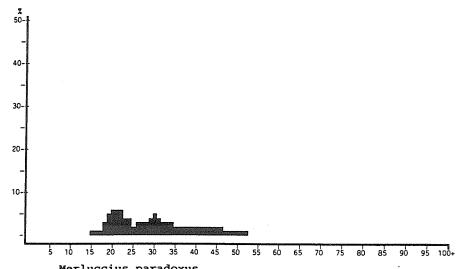
MEAN LENGTH = 31.21cm N= 4458
NUMBER OF SUBSAMPLES: 68



Merluccius capensis NORTH 2/92 260-650m Pooled sample ( weighted by catch). MEAN LENGTH = 51.19cm N= 2578 NUMBER OF SUBSAMPLES: 49



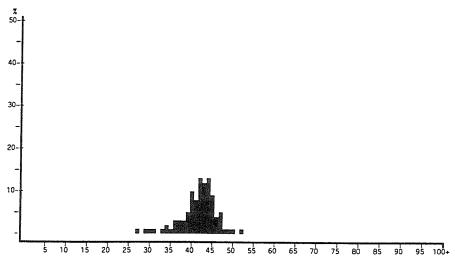
Merluccius capensis NORTH 2/92 TOTAL Pooled sample (weighted by catch). MEAN LENGTH = 34.87cm N= 7036 NUMBER OF SUBSAMPLES :117



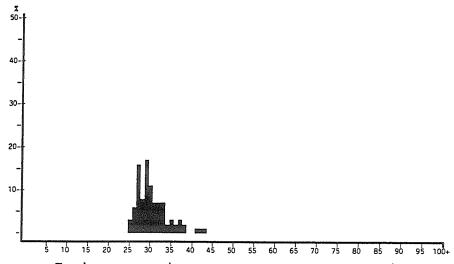
Merluccius paradoxus SOUTH 2/92 TOTAL Pooled sample ( weighted by catch). MEAN LENGTH = 30.52cm N= 6440 NUMBER OF SUBSAMPLES: 85

20---10--5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100+

Merluccius paradoxus CENTRAL 2/92 TOTAL Pooled sample ( weighted by catch). MEAN LENGTH = 38.90cm N= 1582 NUMBER OF SUBSAMPLES: 52

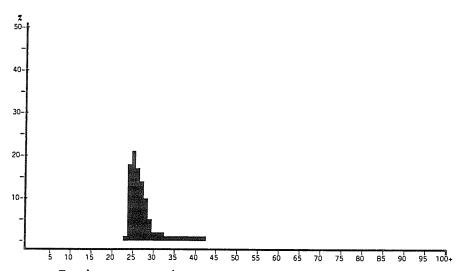


Merluccius paradoxus NORTH 2/92 TOTAL Pooled sample (weighted by catch). MEAN LENGTH = 41.96cm N= 458 NUMBER OF SUBSAMPLES: 16



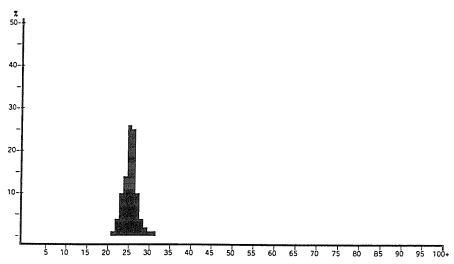
Trachurus capensis
SOUTH 2/92 TOTAL
Pooled sample ( weighted by catch).

MEAN LENGTH = 30.33cm N= 317
NUMBER OF SUBSAMPLES: 11

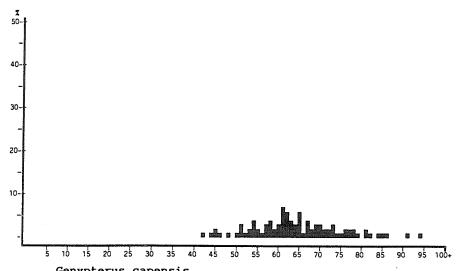


Trachurus capensis
CENTRAL 2/92 TOTAL
Pooled sample (weighted by catch).

MEAN LENGTH = 27.18cm N= 2179
NUMBER OF SUBSAMPLES: 30



Trachurus capensis
NORTH 2/92 TOTAL
Pooled sample (weighted by catch).
MEAN LENGTH = 25.37cm N= 2363
NUMBER OF SUBSAMPLES: 31



Genypterus capensis
SOUTH 2/92 TOTAL
Pooled sample (weighted by catch).

MEAN LENGTH = 63.92cm N= 218
NUMBER OF SUBSAMPLES: 13

# Annex II Records of fishing stations

start stop duration TIME :11:31:00 12:01:00 30 (min LOG :1224.60 1226.20 1.70 FDEPTH: 165 165 BDEPTH: 165 165 Towing dir: 335 Wire out:	Area code GearCond.co Validity co 700 m Speed:	de: 3 : 1 ode: ode:		start stop durati TIME :13:15:00 13:45:00 30 LOG :1439.90 1441.20 1.43 FDEPTH: 153 148 BDEPTH: 153 148		POSITION:I ode: 3 : 1 code: code:	STATION:1333 Lat S 2851 Long E 1554
Sorted: 84 Kg Total catch:	246.52	CATCH/HOUR:	493.04	Sorted: 38 Kg Total ca	tch: 74.69	CATCH/HOUR:	149.38
SPECIES	CATCH/HOUR weight numb		SAMP.NO.	SPECIES	CATCH/HOU		T. C SAMP.NO.
Merluccius capensis, female Merluccius capensis Merluccius capensis, male Raja straeleni MYCTOPHIDAE Chelidonichthys capensis Lepidopus caudatus Trachurus capensis	155.20 1 115.20 1	1872 31.48 1520 23.37 1160 22.72 2 12.17 8.11 32 1.69 24 0.24 8 0.23	3 1 2	Galeorhinus galeus Merluccius capensis, juveniles Merluccius capensis, female Etrumeus whiteheadi Sepia australis Todaropsis eblanae Paracallionymus costatus Merluccius capensis, male Lophius upsicephalus MYCTOPHIDAE	40.00 36.60 24.60 19.92 11.58 4.74 3.12 3.00 1.92	972 24 198 16 216 13 618 96 282 2 30 6	5.78 1.50 16 5.47 18 6.34 15 1.75 1.17 1.09 1.01 17
	133.01	100.01		Chelidonichthys capensis	1.80	6 0	.20
2277 21 (12 (22		PROJECT ST		Maurolicus muelleri Sufflogobius bibarbatus	0.60 0.24		).40 ).16
start stop duration TIME :14:18:00 14:48:00 30 (min LOG :1245.20 1246.80 1.57 FDEPTH: 205 204 BDEPTH: 205 204	PE: BT No:1  ) Purpose code Area code GearCond.co Validity co 750 m Speed:	de: 3 : 1 ode: ode:	S 2644 E 1442	start stop duration		POSITION: I	STATION:1334 at S 2903 ong E 1535
Sorted: 51 Kg Total catch:	216.29	CATCH/HOUR:	432.58	TIME :16:38:00 16:55:00 17 LOG :1467.30 1468.10 0.90	(min) Purpose co Area code	ode: 3 : 1	
SPECIES	CATCH/HOUR		SAMP.NO.	FDEPTH: 174 176 BDEPTH: 174 176	GearCond.e Validity	code:	
Merluccius capensis		3026 51.09	6		out: 700 m Speed	d: 28 kn*10	
Merluccius capensis, female Merluccius capensis, male		596 28.30 570 18.47	5 4	Sorted: 102 Kg Total car	tch: 102.44	CATCH/HOUR:	361.55
Chelidonichthys capensis MYCTOPHIDAE	4.34 4.26	8 1.00 0.98		SPECIES	CATCH/HOU weight nur	R % OF TO:	r. c samp.no.
Zeus capensis	0.68	8 0.16		Merluccius capensis Merluccius capensis, female	162.35 78.00	2682 44	.90 19
Total	432.58	100.00		Sepia australis Etrumeus whiteheadi	29.82 25.84	1754 8	.57 21 .25
		PROJECT STA		Merluccius capensis, male Callorhinchus capensis	16.59 15.53	28 4	.15 22 .59 20
start stop duration	PE: BT No:1	POSITION: Lat Long	S 2657 E 1445	Maurolicus muelleri Raja straeleni	13.06 10.59		.61
TIME :16:56:00 17:26:00 30 (min LOG :1264.80 1266.40 1.50	Purpose cod Area code	de: 3 :1		Paracallionymus costatus Todaropsis eblanae	2.93 1.80	339 0	.81
FDEPTH: 212 208 BDEPTH: 212 208	GearCond.co Validity co	ode:		Trachurus capensis	1.13	7 0	.31
	800 m Speed:	30 kn*10		Genypterus capensis Austrogiossus microlepis	0.99 0.88	18 0	.27
Sorted: 103 Kg Total catch:	102.50	CATCH/HOUR:	205.00	Helicolenus dactylopterus Lophius upsicephalus	0.88 0.74	4 0	.24
SPECIES	CATCH/HOUR		SAMP.NO.	Holohalaelurus regani Lepidopus caudatus	0.32 0.11		.09
Merluccius capensis, female	weight numb	734 45.95	8	Total	361.56	99	.99
Merluccius capensis, male MYCTOPHIDAE	23.80	712 36.20 11.61	7				
Genypterus capensis Todarodes sagittatus	6.00 3.10	6 2.93 14 1.51	9	DATE: 22/10/92 GEAR	R TYPE: BT No:1	PROJECT POSITION: L	STATION:1335 at S 2911
Callorhinchus capensis Sufflogobius bibarbatus	1.50	2 0.73		start stop duration		I.	ong E 1519
		0.59		TIME :20:40:00 21:08:00 28	(min) Purnose oc	ode: 3	
Lepidopus caudatus Zeus capensis	0.50	0.59 10 0.24 2 0.10		TIME :20:40:00 21:08:00 28 LOG :1494.30 1495.40 1.60	(min) Purpose co Area code	ode: 3 : 1	,
Zeus capensis Maurolicus muelleri	0.50 0.20 0.20	10 0.24 2 0.10 0.10		TIME :20:40:00 21:08:00 28 LOG :1494.30 1495.40 1.60 FDEPTH: 177 174 BDEPTH: 177 174	(min) Purpose co Area code GearCond.c Validity o	ode: 3 : 1 code: code:	,
Zeus capensis Maurolicus muelleri Todaropsis eblanae	0.50 0.20 0.20 0.10	10 0.24 2 0.10 0.10 2 0.05		TIME :20:40:00 21:08:00 28 LOG :1494.30 1495.40 1.60 FDEPTH: 177 174 BDEPTH: 177 174 Towing dir: 40 Wire of	(min) Purpose co Area code GearCond.c Validity c out: 700 m Speed	code: 3 : 1 code: code: d: 34 kn*10	
Zeus capensis Maurolicus muelleri	0.50 0.20 0.20	10 0.24 2 0.10 0.10		TIME :20:40:00 21:08:00 28 LOG :1494.30 1495.40 1.60 FDEPTH: 177 174 BDEPTH: 177 174 Towing dir: 40 Wire of Sorted: 56 Kg Total cat	(min) Purpose co Area code GearCond.c Validity c out: 700 m Speed	ode: 3 : 1 code: code:	314.14
Zeus capensis Maurolicus muelleri Todaropsis eblanae	0.50 0.20 0.20 0.10	10 0.24 2 0.10 0.10 2 0.05		TIME :20:40:00 21:08:00 28 LOG :1494.30 1495.40 1.60 FDEPTH: 177 174 BDEPTH: 177 174 Towing dir: 40 Wire of	(min) Purpose of Area code GearCond.c Validity of out: 700 m Speed tch: 146.60	code: 3 : 1 code: code: d: 34 kn*10 CATCH/HOUR:	
Zeus capensis Maurolicus muelleri Todaropsis eblanae Total  DATE:22/10/92  GEAR TY	0.50 0.20 0.20 0.10	10 0.24 2 0.10 0.10 2 0.05 100.01	NTION:1331 S 2739	TIME :20:40:00 21:08:00 28 LOG :1494.30 1495.40 1.60 FDEPTH: 177 174 BDEPTH: 177 174 Towing dir: 40 Wire of Sorted: 56 Kg Total cat SPECIES  Merluccius capensis	(min) Purpose or Area code GearCond. Validity o Dut: 700 m Speed tch: 146.60 CATCH/HOU Weight num 120.43	ode: 3 code: 1 code: code: di: 34 kn*10 CATCH/HOUR: RR % OF TOT mbers 1704 38	314.14 T. C SAMP.NO. .34 24
Zeus capensis Maurolicus muelleri Todaropsis eblanae  Total  DATE:22/10/92 GEAR TY: start stop duration TIME :00:26:00 00:56:00 30 (min	0.50 0.20 0.20 0.10 205.00	10 0.24 2 0.10 0.10 2 0.05 100.01  PROJECT STA POSITION: Lat Long		TIME :20:40:00 21:08:00 28 LOG :1494.30 1495.40 1.60 FDEPTH: 177 174 Towing dir: 40 Wire of Sorted: 56 Kg Total cat SPECIES  Merluccius capensis Genypterus capensis, female	(min) Purpose or Area code GearCond.c Validity o out: 700 m Speec tch: 146.60 CATCH/HOU weight num 120.43 67.71 32.57	ode: 3 : 1 code: code: di: 34 kn*10 CATCH/HOUR: R	314.14 F. C SAMP.NO. .34 24 .55 23 .37 26
Zeus capensis Maurolicus muelleri Todaropsis eblanae  Total  DATE:22/10/92 GEAR TY:	0.50 0.20 0.20 0.10 205.00 PE: PT No:1 Purpose cod Area code	10 0.24 2 0.10 2 0.10 2 0.05 100.01  PROJECT STP POSITION: Lat Long ie: 1 : 1	S 2739	TIME :20:40:00 21:08:00 28 LOG :1494.30 1495.40 1.60 FDEPTH: 177 174 BDEPTH: 177 174 Towing dir: 40 Wire of the control of the	(min) Purpose or Area code GearCond.c Validity of Cout: 700 m Speectch: 146.60  CATCH/HOU Weight num 120.43 67.71 32.57 31.07 24.73	ode: 3 : 1 code: code: code: di: 34 kn*10 CATCH/HOUR: R	314.14 C. C SAMP.NO. .34 24 .55 23 .37 26 .89 27 .87
Zeus capensis Maurolicus muelleri Todaropsis eblanae  Total  DATE:22/10/92 GEAR TYI Start stop duration TIME :00:25:00 00:56:00 30 (min) LOG :1324.60 1326.20 1.60 FDEPTH: 17 17 BDEPTH: 131 135	0.50 0.20 0.20 0.10 205.00 PE: PT No:1 Purpose cod Area code GearCond. ov	10 0.24 2 0.10 2 0.05	S 2739	TIME :20:40:00 21:08:00 28 LOG :1494.30 1495.40 1.60 FDEPTH: 177 174 BDEPTH: 177 174 Towing dir: 40 Wire of the control of the	(min) Purpose or Area code GearCond.c Validity cout: 700 m Speectch: 146.60  CATCH/HOU Weight num 120.43 67.71 32.57 31.07 24.73 9.43 7.80	ode: 3 : 1 code: code: code: code: doe: 1 34 kn*10  CATCH/HOUR: R	314.14 C. C. SAMP.NO. .34 24 .55 23 .37 26 .89 27 .87 .00 25
Zeus capensis Maurolicus muelleri Todaropsis eblanae  Total  DATE:22/10/92 GEAR TY Start stop duration TIME:00:25:00 00:56:00 30 (min) LOG:1324.60 1326.20 1.60 FDEPTH: 17 17 BDEPTH: 131 135 Towing dir: 330 Wire out:	0.50 0.20 0.20 0.10 205.00 PE: PT No:1 Purpose cod Area code GearCond.co Validity co	10 0.24 2 0.10 2 0.05  100.01  PROJECT STI POSITION: Lat Long de: 1 cd: 1 de: 32 kn*10	S 2739 E 1511	TIME :20:40:00 21:08:00 28 LOG :1494.30 1495.40 1.60 FDEPTH: 177 174 BDEPTH: 177 174 Towing dir: 40 Wire of the control of the	(min) Purpose or Area code GearCond. Validity of Court 700 m Speed tch: 146.60  CATCH/HOU Weight num 120.43 67.71 32.57 31.07 24.73 9.43 7.80 6.86 6.51	ode: 3 : 1 code: code: dode: d	314.14 C. C. SAMP.NO. .34 24 .55 23 .37 26 .89 27 .87 .00 25 .48 .18
Zeus capensis Maurolicus muelleri Todaropsis eblanae  Total  DATE:22/10/92 GEAR TY Start stop duration TIME:00:25:00 00:56:00 30 (min LOG:1324.60 1326.20 1.60 FDEPTH: 17 17 BDEPTH: 17 17 BDEPTH: 131 135 Towing dir: 330 Wire out: Sorted: 40 Kg Total catch:	0.50 0.20 0.20 0.10 205.00 PE: PT No:1 Purpose cod Area code GearCond.co Validity co 100 m Speed: 71.82	10 0.24 2 0.10 2 0.05 100.01 PROJECT ST! POSITION: Lat Long ie: 1 ide: de: 32 kn*10 CATCH/HOUR:	S 2739 E 1511	TIME :20:40:00 21:08:00 28 LOG :1494.30 1495.40 1.60 FDEPTH: 177 174 BDEPTH: 177 177 Towing dir: 40 Wire of the control of the	(min) Purpose or Area code GearCond. Carcinol Speed tch: 146.60  CATCH/HOU Weight nun 120.43 67.71 32.57 31.07 24.73 9.43 7.80 6.86 6.51 1.71 1.50	ode: 3 : 1 code: code: code: code: 1 dr. 34 kn*10  CATCH/HOUR: R	314.14  F. C SAMP.NO.  .34 24 .55 23 .37 26 .89 27 .87 25 .48 .18 .07 .54 .48
Zeus capensis Maurolicus muelleri Todaropsis eblanae  Total  DATE:22/10/92 GEAR TY Start stop duration TIME :00:25:00 00:56:00 30 (min LOG :1324.60 1326.20 1.60 FDDPTH: 17 17 BDEPTH: 131 135 Towing dir: 330 Wire out: Sorted: 40 Kg Total catch: SPECIES	0.50 0.20 0.20 0.10 205.00 PE: PT No:1 Purpose cod Area code GearCond.co Validity co 100 m Speed: 71.82 CATCH/HOUR weight numb	10 0.24 2 0.10 2 0.05	S 2739 E 1511	TIME :20:40:00 21:08:00 28 LOG :1494.30 1495.40 1.60 FDEPTH: 177 174 BDEPTH: 177 174 Towing dir: 40 Wire of the control of the	(min) Purpose or Area code GearCond.: Validity of Vali	ode: 3 : 1 code: code: 3 de: 34 kn*10  CATCH/HOUR: R	314.14 F. C. SAMP.NO. .34 24 .55 23 .37 26 .89 27 .87 .00 25 .48 .07 .54
Zeus capensis Maurolicus muelleri Todaropsis eblanae  Total  DATE:22/10/92 GEAR TY	0.50 0.20 0.20 0.10  205.00  PE: PT No:1  Purpose cod Area code GearCond.co Validity co 100 m Speed: 71.82  CATCH/HOUR Weight numb 124.00 16.40	10 0.24 2 0.10 2 0.05	S 2739 E 1511	TIME :20:40:00 21:08:00 28 LOG :1494.30 1495.40 1.60 FDEPTH: 177 174 BDEPTH: 177 174 Towing dir: 40 Wire of the control of the	(min) Purpose or Area code GearCond.c Validity of Vali	ode: 3 : 1 code: code: 3 de: 34 kn*10  CATCH/HOUR: R	314.14 F. C SAMP.NO. .34 24 .55 23 .37 26 .89 27 .87 .00 25 .48 .18 .07 .54 .48
Zeus capensis Maurolicus muelleri Todaropsis eblanae  Total  DATE:22/10/92	0.50 0.20 0.20 0.10 205.00 PE: PT No:1 Purpose cod Area code GearCond.co Validity co 100 m Speed: 71.82 CATCH/HOUR weight numb 124.00 16.40 2.44 0.48	10 0.24 2 0.10 2 0.05	S 2739 E 1511	TIME :20:40:00 21:08:00 28 LOG :1494.30 1495.40 1.60 FDEPTH: 177 174 BDEPTH: 177 174 Towing dir: 40 Wire of the control of the	(min) Purpose or Area code GearCond.c Validity of Vali	ode: 3 : 1 code: 2 code: 3 34 kn*10  CATCH/HOUR: R	314.14 C. C. SAMP.NO. .34 24 .55 23 .37 26 .89 27 .87 .00 25 .48 .18 .07 .54 .48 .34 .29 .23 .16 .11
Zeus capensis Maurolicus muelleri Todaropsis eblanae  Total  DATE:22/10/92 GEAR TY Start stop duration TIME:00:26:00 00:56:00 30 (min) LOG:1324.60 1326.20 1.60 FDEPTH: 17 17 BDEPTH: 131 135 Towing dir: 330 Wire out:  Sorted: 40 Kg Total catch:  SPECIES  MYCTOPHIDAE Thyrsites atun OMMASTREPHIDAE	0.50 0.20 0.20 0.10  205.00  Purpose cod Area code GearCond.co 100 m Speed: 71.82 CATCH/HOUR Numb 124.00 16.40 2.444	10 0.24 2 0.10 2 0.05 100.01 2 PROJECT STI POSITION: Lat Long ie: 1 : 1 : 1 : 232 kn*10  CATCH/HOUR:  * OF TOT. C  Deers  86.33 4 11.42 1.70	S 2739 E 1511	TIME :20:40:00 21:08:00 28 LOG :1494.30 1495.40 1.60 FDEPTH: 177 174 BDEPTH: 177 174 Towing dir: 40 Wire of the control of the	(min) Purpose or Area code GearCond. c Validity of Val	ode: 3 : 1 code: code: d: 34 kn*10  CATCH/HOUR:  R	314.14  F. C SAMP.NO.  .34
Zeus capensis Maurolicus muelleri Todaropsis eblanae  Total  DATE:22/10/92 GEAR TY:	0.50 0.20 0.20 0.10 205.00 Purpose cod Area code GearCond.co Validity co 100 m Speed: 71.82 CATCH/HOUR weight numb 124.00 16.40 0.48 0.24 0.08	10 0.24 2 0.10 2 0.05	S 2739 E 1511	TIME :20:40:00 21:08:00 28 LOG :1494.30 1495.40 1.60 FDEPTH: 177 174 BDEPTH: 177 174 Towing dir: 40 Wire of the control of the	(min) Purpose or Area code GearCond. c Validity c validity c cout: 700 m Speec tch: 146.60  CATCH/HOU weight nun 120.43 167.71 32.57 31.07 24.73 9.43 7.80 6.86 6.51 1.71 1.50 1.07 0.90 0.73 0.51 0.34 0.21	ode: 3 : 1 code: code: d: 34 kn*10  CATCH/HOUR: R	314.14  F. C SAMP.NO.  .34 24 .55 23 .37 26 .89 27 .87 .80 .80 25 .48 .07 .54 .48 .29 .23 .16 .11 .07
Zeus capensis Maurolicus muelleri Todaropsis eblanae  Total  DATE:22/10/92 GEAR TYI Start stop duration TIME:00:26:00 00:56:00 30 (min) LOG:1324.60 1326.20 1.60 FDEPTH: 17 17 BDEPTH: 131 135 Towing dir: 330 Wire out: Sorted: 40 Kg Total catch: SPECIES  MYCTOPHIDAE Thyrsites atun OMMASTREPHIDAE Lepidopus caudatus Merluccius capensis Sepia australis	0.50 0.20 0.20 0.10  205.00  Purpose cod Area code Gearcond. cod Validity co 100 m Speed: 71.82 CATCH/HOUR weight numb 124.00 16.40 2.44 0.48 0.24	10 0.24 2 0.10 2 0.05	S 2739 E 1511	TIME :20:40:00 21:08:00 28 LOG :1494.30 1495.40 1.60 FDEPTH: 177 174 BDEPTH: 177 174 Towing dir: 40 Wire of the control of the	(min) Purpose of Area code GearCond.c Validity of Vali	ode: 3 : 1 code: code: d: 34 kn*10  CATCH/HOUR: R	314.14  F. C SAMP.NO.  .34 24 .55 23 .37 26 .89 27 .87 .00 25 .48 .07 .54 .48 .34 .29 .21 .16 .11 .07
Zeus capensis Maurolicus muelleri Todaropsis eblanae  Total  DATE:22/10/92 GEAR TYI Start stop duration TIME :00:25:00 00:56:00 30 (min) LOG :1324.60 1326.20 1.60 FDEPTH: 17 17 BDEPTH: 131 135 Towing dir: 330 Wire out:  Sorted: 40 Kg Total catch:  SPECIES  MYCTOPHIDAE Thyrsites atun OMMASTREPHIDAE Lepidopus caudatus Merluccius capensis Sepia australis  Total	0.50 0.20 0.20 0.10 205.00 PE: PT No:1 Purpose cod Area code GearCond.co Validity co 100 m Speed: 71.82 CATCH/HOUR weight numb 124.00 16.40 2.44 0.24 0.08	10 0.24 2 0.10 2 0.05	S 2739 E 1511 143.64 SAMP.NO.	TIME :20:40:00 21:08:00 28 LOG :1494.30 1495.40 1.60 FDEPTH: 177 174 BDEPTH: 177 174 Towing dir: 40 Wire of the control of the	(min) Purpose or Area code GearCond. ( Validity cout: 700 m Speectch: 146.60  CATCH/HOU Weight num 120.43 67.71 32.57 31.07 24.73 9.43 7.80 6.86 6.51 1.71 1.50 1.07 0.90 0.73 0.51 0.34 0.21 0.04	ode: 3 : 1 code: 5 code: 1 : 34 kn*10  CATCH/HOUR: R R OF TOT nbers 79 21 30 10 180 9 499 7 13 3 44 2 137 2 34 0 17 0 2 0 17 10 17 0 2 0 17 10 18 0 9 9 99  PROJECT	314.14  C. C. SAMP.NO.  .34 24 .55 23 .37 26 .89 27 .87 .00 25 .48 .18 .07 .54 .48 .34 .29 .23 .16 .10 .75 .75 .75 .75 .75 .75 .75 .75 .75 .75
Zeus capensis Maurolicus muelleri Todaropsis eblanae  Total  DATE:22/10/92 GEAR TY Start stop duration TIME:00:25:00 00:56:00 30 (min) LOG:1324.60 1326.20 1.60 FDEPTH: 17 17 BDEPTH: 131 135 Towing dir: 330 Wire out: Sorted: 40 Kg Total catch: SPECIES MYCTOPHIDAE Thyrsites atun CMMASTREPHIDAE Lepidopus caudatus Merluccius capensis Sepia australis  Total  DATE:22/10/92 GEAR TY	0.50 0.20 0.20 0.10 205.00 PE: PT No:1 Purpose cod Area code GearCond.co Validity co 100 m Speed: 71.82 CATCH/HOUR weight numb 124.00 16.40 2.44 0.24 0.08 143.64	10 0.24 2 0.10 2 0.05	S 2739 E 1511 143.64 SAMP.NO.	TIME :20:40:00 21:08:00 28 LOG :1494.30 1495.40 1.60 FDEPTH: 177 174 BDEPTH: 177 174 Towing dir: 40 Wire of the control of the	(min) Purpose or Area code GearCond. (	ode: 3 : 1 code: 5 code: 1 1: 20de: 5 code: 1 2: 34 kn*10  CATCH/HOUR: R R	314.14  C. C. SAMP.NO.  .34
Zeus capensis Maurolicus muelleri Todaropsis eblanae  Total  DATE:22/10/92 GEAR TY Start stop duration TIME:00:25:00 00:56:00 30 (min) LOG:1324.60 1326.20 1.60 FDEPTH: 17 17 BDEPTH: 131 135 Towing dir: 330 Wire out: Sorted: 40 Kg Total catch: SPECIES  MYCTOPHIDAE Thyrsites atun CMMASTREPHIDAE Lepidopus caudatus Merluccius capensis Sepia australis  Total  DATE:22/10/92 GEAR TY Start stop duration TIME:10:17:00 10:47:00 30 (min) LOG:1417.20 1418.60 1.466	0.50 0.20 0.20 0.20 0.10  205.00  PE: PT No:1  Purpose cod Area code GearCond.co Validity co 100 m Speed: 71.82  CATCH/HOUR Weight numb 124.00 16.40 2.44 0.24 0.08  143.64  PE: BT No:1  Purpose cod Area code	10 0.24 2 0.10 2 0.10 2 0.05	S 2739 E 1511 143.64 SAMP.NO.	TIME :20:40:00 21:08:00 28 LOG :1494.30 1495.40 1.60 FDEPTH: 177 174 BDEPTH: 177 174 Towing dir: 40 Wire of the control of the	(min) Purpose or Area code GearCond.c Validity of Vali	ode: 3 : 1 code: 5 code: 1 : 34 kn*10  CATCH/HOUR:  R	314.14  T. C SAMP.NO.  .34
Zeus capensis Maurolicus muelleri Todaropsis eblanae  Total  DATE:22/10/92	0.50 0.20 0.20 0.20 0.10  205.00  PE: PT No:1  Purpose cod Area code GearCond.co Validity co 100 m Speed: 71.82  CATCH/HOUR Weight numb 124.00 16.40 2.44 0.08  143.64  PE: BT No:1  Purpose cod Area code GearCond.co Validity co	10 0.24 2 0.10 2 0.10 2 0.05	S 2739 E 1511 143.64 SAMP.NO.	TIME : 20:40:00 21:08:00 28 LOG : 1494.30 1495.40 1.60 FDEPTH: 177 174 BDEPTH: 177 174 Towing dir: 40 Wire of the control of t	(min) Purpose or Area code GearCond.c Validity of Vali	ode: 3 : 1 code: 2 code: 3 : 1 code: 3 : 1 code: 3 : 34 kn*10  CATCH/HOUR:  R	314.14  T. C SAMP.NO.  .34
Zeus capensis Maurolicus muelleri Todaropsis eblanae  Total  DATE:22/10/92	0.50 0.20 0.20 0.20 0.10  205.00  PE: PT No:1  Purpose cod Area code GearCond.co Validity co Validity	10 0.24 2 0.10 2 0.05	S 2739 E 1511 143.64 SAMP.NO.	TIME :20:40:00 21:08:00 28 LOG :1494.30 1495.40 1.60 FDEPTH: 177 174 BDEPTH: 177 174 Towing dir: 40 Wire of the control of the	(min) Purpose or Area code GearCond.c Validity of Vali	ode: 3 : 1 code: : 1 code: : 34 kn*10  CATCH/HOUR:  R	314.14  T. C SAMP.NO.  .34
Zeus capensis Maurolicus muelleri Todaropsis eblanae  Total  DATE:22/10/92	0.50 0.20 0.20 0.20 0.10  205.00  PE: PT No:1  Purpose cod Area code GearCond.co Validity co Validity	10 0.24 2 0.10 2 0.05	S 2739 E 1511 143.64 SAMP.NO.	TIME : 20:40:00 21:08:00 28 LOG : 1494.30 1495.40 1.60 FDEPTH: 177 174 BDEPTH: 177 174 Towing dir: 40 Wire of the control of t	(min) Purpose of Area code GearCond.c Validity of Carca Code GearCond.c Validity of Carca Code Cout:1200 m Speed Speeds Validity of Validity of Carca Code Carca Code Cout:1200 m Speeds Carca Code Carca Code Cout:1200 m Speeds Carca Code Carca	ode: 3 : 1 code: code: 3 : 1 code: 3 de: 34 kn*10  CATCH/HOUR:  R	314.14  F. C SAMP.NO.  .34
Zeus capensis Maurolicus muelleri Todaropsis eblanae  Total  DATE:22/10/92 GEAR TY:	0.50 0.20 0.20 0.20 0.10  205.00  PE: PT No:1  Purpose cod Area code GearCond.co Validity co Validity	10 0.24 2 0.10 2 0.05	S 2739 E 1511 143.64 SAMP.NO.	TIME : 20:40:00 21:08:00 28 LOG : 1494.30 1495.40 1.60 FDEPTH: 177 174 BDEPTH: 177 174 Towing dir: 40 Wire of Sorted: 56 Kg Total cate of Species  Merluccius capensis Genypterus capensis Genypterus capensis Helicolenus dactylopterus Merluccius capensis, female Trachurus capensis, male Holohalaelurus regani Squalus megalops Cynoglossus capensis Coelorinchus fasciatus Emmelichthys nitidus Solenocera africana Congiopodus spinifer Todaropsis eblanae Paracallionymus costatus Physiculus capensis Notopogon macrosolen  Total  DATE: 23/10/92 GEAR Start stop duratic TIME : 02:44:00 03:14:00 30 LOG : 1544.80 1546.10 1.47 FDEPTH: 387 378 BDEPTH: 387 378 Towing dir: 10 Wire of Species	(min) Purpose of Area code GearCond.c Validity of Cartch/bou weight num	ode: 3 : 1 code: code: 3 : 1 code: 3 de: 34 kn*10  CATCH/HOUR:  R	314.14  F. C. SAMP.NO.  .34
Zeus capensis Maurolicus muelleri Todaropsis eblanae  Total  DATE:22/10/92 GEAR TY:	0.50 0.20 0.20 0.20 0.10  205.00  PE: PT No:1  Purpose cod Area code GearCond.co Validity co Cartello	10 0.24 2 0.10 2 0.05	S 2739 E 1511 143.64 SAMP.NO.	TIME : 20:40:00 21:08:00 28 LOG : 14943.0 1495.40 1.60 FDEPTH: 177 174 BDEPTH: 177 174 Towing dir: 40 Wire of the control of t	(min) Purpose of Area code GearCond.c Validity of Vali	ode: 3 : 1 code: 5 code: 1 : 34 kn*10  CATCH/HOUR: R R OF TO: 1 1704 38 79 21 30 10 180 9 4493 7 13 3 44 2 137 2 34 0 17 0 17 0 17 0 17 0 17 0 17 0 17 0 17	314.14  F. C SAMP.NO.  .34
Zeus capensis Maurolicus muelleri Todaropsis eblanae  Total  DATE:22/10/92 GEAR TYI start stop duration TIME:00:26:00 00:56:00 30 (min) LOG:1324.60 01:56:00 30 (min) LOG:1324.60 1326.20 1.60 FDEPTH: 17 17 BDEPTH: 131 135 Towing dir: 330 Wire out: Sorted: 40 Kg Total catch:  SPECIES  MYCTOPHIDAE Thyrsites atun OMMASTREPHIDAE Lepidopus caudatus Merluccius capensis Sepia australis  Total  DATE:22/10/92 GEAR TYI Start stop duration TIME:10:17:00 10:47:00 30 (min) LOG:1417.20 1418.60 1.46 FDEPTH: 97 99 BDEPTH: 97 99 Towing dir: 280 Wire out: Sorted: 59 Kg Total catch:  SPECIES	0.50 0.20 0.20 0.20 0.20 0.20 0.20 0.20	10 0.24 2 0.10 2 0.10 2 0.05	S 2739 E 1511 143.64 SAMP.NO.	TIME :20:40:00 21:08:00 28 LOG :1494.30 1495.40 1.60 FDEPTH: 177 174 BDEPTH: 177 174 Towing dir: 40 Wire of the control of the	(min) Purpose or Area code GearCond. ( Validity of Val	ode: 3 : 1 code: 5 code: 1 : 34 kn*10  CATCH/HOUR: R R OF TOTA TOTA TOTA TOTA TOTA TOTA TOTA TOTA	314.14  C. C. SAMP.NO.  .34
Zeus capensis Maurolicus muelleri Todaropsis eblanae  Total  DATE:22/10/92 GEAR TY Start stop duration TIME:00:25:00 00:56:00 30 (min) LOG:1324.60 1326.20 1.60 FDEPTH: 17 17 BDEPTH: 131 135 Towing dir: 330 Wire out: Sorted: 40 Kg Total catch:  SPECIES  MYCTOPHIDAE Thyrsites atun CMMASTREPHIDAE Lepidopus caudatus Merluccius capensis Sepia australis  Total  DATE:22/10/92 GEAR TY Start stop duration TIME:00:17:00 10:47:00 30 (min) LOG:1417.20 1418.60 1.46 FDEPTH: 97 99 BDEPTH: 97 99 Towing dir: 280 Wire out:  Sorted: 59 Kg Total catch:  SPECIES  Callorhinchus capensis Krill Genypterus capensis)	0.50 0.20 0.20 0.20 0.10  205.00  PE: PT No:1  Purpose cod Area code GearCond.co Validity co 16.40 2.44 0.24 0.08  143.64  Purpose cod Area code GearCond.co Validity co 16.40 0.24 0.24 0.24 0.25 0.24 0.25 0.26 0.27 0.27 0.28 0.28 0.29 0.29 0.29 0.29 0.20 0.20 0.20 0.20	10 0.24 2 0.10 2 0.10 2 0.05	S 2739 E 1511  143.64  SAMP.NO.  ATION:1332 S 2840 E 1612  707.70  SAMP.NO.	TIME :20:40:00 21:08:00 28 LOG :1494.30 1495.40 1.60 FDEPTH: 177 174 BDEPTH: 177 174 Towing dir: 40 Wire of Sorted: 56 Kg Total cate SPECIES  Merluccius capensis Genypterus capensis Genypterus capensis Merluccius capensis, female Trachurus capensis, male Holohalaelurus regani Squalus megalops Cynoglossus capensis Zeus capensis Coelorinchus fasciatus Emmelichthys nitidus Solenocera africana Congiopodus spinifer Todaropsis eblanae Paracallionymus costatus Physiculus capensis Notopogon macrosolen  Total  DATE:23/10/92 GEAR	(min) Purpose or Area code GearCond. (	ode: 3 : 1 code: 5 code: 5 code: 1 1: 34 kn*10  CATCH/HOUR: R	314.14  C. C. SAMP.NO.  .34
Zeus capensis Maurolicus muelleri Todaropsis eblanae  Total  DATE:22/10/92 GEAR TY Start stop duration TIME:00:25:00 00:56:00 30 (min) LOG:1324.60 1326.20 1.60 FDEPTH: 17 17 BDEPTH: 131 135 Towing dir: 330 Wire out: Sorted: 40 Kg Total catch: SPECIES  MYCTOPHIDAE Thyrsites atun OMMASTREPHIDAE Lepidopus caudatus Merluccius capensis Sepia australis  Total  DATE:22/10/92 GEAR TY Start stop duration TIME:10:17:00 10:47:00 30 (min) LOG:1417.20 1418.60 1.46 FDEPTH: 97 99 BDEPTH: 97 99 Towing dir: 280 Wire out: Sorted: 59 Kg Total catch: SPECIES  Callorhinchus capensis Krill Genypterus capensis, female Austroglossus microlepis Merluccius capensis, male Rajs straeleni Merluccius capensis, male Rajs straeleni	0.50 0.20 0.20 0.20 0.20 0.10  205.00  PE: PT No:1  Purpose cod Area code GearCond.co Validity co Vali	10 0.24 2 0.10 2 0.10 2 0.05	S 2739 E 1511  143.64  SAMP.NO.  TION:1332 S 2840 E 1612  707.70  SAMP.NO.	TIME :20:40:00 21:08:00 28 LOG :1494.30 1495.40 1.60 FDEPTH: 177 174 BDEPTH: 177 174 Towing dir: 40 Wire of Sorted: 56 Kg Total cate SPECIES  Merluccius capensis Genypterus capensis Genypterus capensis Merluccius capensis, female Trachurus capensis, male Holohalaelurus regani Squalus megalops Cynoglossus capensis Zeus capensis Coelorinchus fasciatus Emmelichthys nitidus Solenocera africana Congiopodus spinifer Todaropsis eblanae Paracallionymus costatus Physiculus capensis Notopogon macrosolen  Total  DATE:23/10/92 GEAR Start stop duratic TIME :02:44:00 03:14:00 30 c LOG :1544:00 03:14:00 30 c Solenocera africans Coelorinchus capensis Notopogon macrosolen  Total  DATE:23/10/92 GEAR Start stop duratic TIME :02:44:00 03:14:00 30 c Solenocera africans Coelorinchus capensis Notopogon macrosolen  Total  DATE:23/10/92 GEAR Start stop duratic TIME :02:44:00 03:14:00 30 c Solenocera africans Coelorinchus capensis Rotopogon macrosolen  Total  DATE:23/10/92 GEAR Start stop duratic TIME :02:44:00 03:14:00 30 c Solenocera africans Coelorinchus capensis Reluccius capensis, female Merluccius capensis, male Genypterus capensis Helicolenus dactylopterus Malacocephalus laevis	(min) Purpose or Area code GearCond.c Validity cout: 700 m Speec tch: 146.60  CATCH/HOU Weight num 120.43 67.71 32.57 31.07 24.73 9.43 7.80 6.86 6.51 1.71 1.50 1.07 0.90 0.73 0.51 0.04  314.12  RATYPE: BT No:1 continue Purpose or Area code GearCond.c Validity cout:1200 m Speec cout	ode: 3 : 1 code: 5 code: 1 : 34 kn*10  CATCH/HOUR: R R OF TOT TOT TOT TOT TOT TOT TOT TOT TOT	314.14  C. C. SAMP.NO.  .34
Zeus capensis Maurolicus muelleri Todaropsis eblanae  Total  DATE:22/10/92 GEAR TY Start stop duration TIME:00:25:00 00:56:00 30 (min) LOG:1324.60 1326.20 1.60 FDEPTH: 17 17 BDEPTH: 131 135 Towing dir: 330 Wire out: Sorted: 40 Kg Total catch: SPECIES  MYCTOPHIDAE Thyrsites atun OMMASTREPHIDAE Lepidopus caudatus Merluccius capensis Sepia australis  Total  DATE:22/10/92 GEAR TY Start stop duration TIME:10:17:00 10:47:00 30 (min) LOG:1417.20 1418.60 1.46 FDEPTH: 97 99 BDEPTH: 97 99 Towing dir: 280 Wire out: Sorted: 59 Kg Total catch: SPECIES  Callorhinchus capensis Krill Genypterus capensis, female Austroglossus microlepis Merluccius capensis, female Austroglossus microlepis Merluccius capensis, male Raja straeleni Chelidonichthys capensis Jasus lalandii	0.50 0.20 0.20 0.20 0.20 0.10  205.00  Purpose cod Area code GearCond.co Validity co Catalon Speed:  71.82  CATCH/HOUR Weight numb 124.00 16.40 2.44 0.08  143.64  Purpose cod Area code GearCond.co Validity co Validity co Catalon Speed:  353.85  CATCH/HOUR Weight numb 274.00 174.00 174.00 174.00 174.00 174.00 174.00 174.00 174.00 33.00 33.00 33.00 31.00 26.50 21.50 11.50	10 0.24 2 0.10 2 0.10 2 0.05	S 2739 E 1511  143.64  SAMP.NO.  ATION:1332 S 2840 E 1612  707.70  SAMP.NO.	TIME :20:40:00 21:08:00 28 LOG :1494.30 1495.40 1.60 FDEPTH: 177 174 BDEPTH: 177 174 Towing dir: 40 Wire of Sorted: 56 Kg Total cat SPECIES  Merluccius capensis Genypterus capensis Helicolenus dactylopterus Merluccius capensis, male Holohalaelurus regani Squalus megalops Cynoglossus capensis Zeus capensis Zeus capensis Coelorinchus fasciatus Emmelichthys nitidus Solenocera africana Congiopodus spinifer Todaropsis eblane Paracallionymus costatus Physiculus capensis Notopogon macrosolen  Total  DATE:23/10/92 GEAR Start stop duratic TIME:02:44:00 03:14:00 30 CAPENSIS Notopogon macrosolen  Total  DATE:23/10/92 GEAR Start stop duratic TIME:02:44:00 03:14:00 30 CAPENSIS Notopogon macrosolen  Total  DATE:23/10/92 GEAR START	(min) Purpose or Area code GearCond. (	ode: 3 : 1 code: 5 code: 1 : 34 kn*10  CATCH/HOUR:  R	314.14  C. C. SAMP.NO.  .34
Zeus capensis Maurolicus muelleri Todaropsis eblanae  Total  DATE:22/10/92	0.50 0.20 0.20 0.20 0.20 0.20 0.10  205.00  Purpose cod Area code GearCond.co Validity co	10 0.24 2 0.10 2 0.05	S 2739 E 1511  143.64  SAMP.NO.  TION:1332 S 2840 E 1612  707.70  SAMP.NO.	TIME :20:40:00 21:08:00 28 LOG :1494.30 1495.40 1.60 FDEPTH: 177 174 BDEPTH: 177 174 Towing dir: 40 Wire of Sorted: 56 Kg Total cat SPECIES  Merluccius capensis Genypterus capensis Helicolenus dactylopterus Merluccius capensis, male Holohalaelurus regani Squalus megalops Cynoglossus capensis Zeus capensis Zeus capensis Coelorinchus fasciatus Emmelichthys nitidus Solenocera africana Congiopodus spinifer Todaropsis eblane Paracallionymus costatus Physiculus capensis Notopogon macrosolen  Total  DATE:23/10/92 GEAR Start stop duratic TIME:02:44:00 03:14:00 30 LOG :1544:00 03:14:00 30 LOG :1544:00 1546:10 1.47 FDEPTH: 387 378 BDEPTH: 387 378 Towing dir: 10 Wire costatus Physiculus paradoxus, male Merluccius capensis, female Merluccius capensis, female Merluccius capensis, male Genypterus capensis Helicolenus dactylopterus Malacocephalus laevis Octopus vulgaris Trachurus capensis Coelorinchus fasciatus Deepwater fish mixture	(min) Purpose or Area code GearCond. ( Validity c out: 700 m Speec tch: 146.60  CATCH/HOU Weight num 120.43 67.71 32.57 31.07 24.73 9.43 7.80 6.86 6.51 1.71 1.50 1.07 0.90 0.73 0.51 0.34 0.21 0.04  314.12  R TYPE: BT No:1 on (min) Purpose or Area code GearCond. c Validity c out:1200 m Speec ch: 136.00  CATCH/HOU Weight num 95.00 47.20 46.60 37.20 7.02 6.90 6.84 6.40 5.76 4.30 3.68	ode: 3 : 1 code: 5 code: 1 : 34 kn*10  CATCH/HOUR: R	314.14  F. C. SAMP.NO.  .34
Zeus capensis Maurolicus muelleri Todaropsis eblanae  Total  DATE:22/10/92	0.50 0.20 0.20 0.20 0.20 0.10  205.00  Purpose cod Area code GearCond.co Validity co Catalant Numb 124.00 16.40 2.44 0.08  143.64  Purpose cod Area code GearCond.co Validity co Catalant Catala	10 0.24 2 0.10 2 0.10 2 0.05	S 2739 E 1511  143.64  SAMP.NO.  TION:1332 S 2840 E 1612  707.70  SAMP.NO.	TIME : 20:40:00 21:08:00 28 LOG : 1494.30 1495.40 1.60 FDEPTH: 177 174 BDEPTH: 177 174 Towing dir: 40 Wire of Sorted: 56 Kg Total cat SPECIES  Merluccius capensis Genypterus capensis Herluccius capensis, female Trachurus capensis, female Trachurus capensis, male Holohalaelurus regani Squalus megalops Cynoglossus capensis Coelorinchus fasciatus Emmelichthys nitidus Solenocera africana Congiopodus spinifer Todaropsis eblanae Paracallionymus costatus Physiculus capensis Notopogon macrosolen  Total  DATE: 23/10/92 GEAR Start stop duratic TIME : 02:44:00 03:14:00 30 LOG : 1544.80 1546.10 1.47 FDEPTH: 387 378 BDEPTH: 387 378 Towing dir: 10 Wire of Sorted: 136 Kg Total cat SPECIES  Merluccius paradoxus, female Merluccius capensis, female Merluccius capensis Helicolenus dactylopterus Malacocephalus laevis Octopus vulgaris Trachurus capensis Neceposalus peepasis Neceposalus regani Lophius upsicephalus	(min) Purpose of Area code GearCond.c Validity of Vali	ode: 3 : 1 code: 5 code: 1 : 34 kn*10  CATCH/HOUR: R R OF TOT beta	314.14  C. C. SAMP.NO.  .34
Zeus capensis Maurolicus muelleri Todaropsis eblanae  Total  DATE:22/10/92	0.50 0.20 0.20 0.20 0.20 0.20 0.20 0.20	10 0.24 2 0.10 2 0.10 2 0.05	S 2739 E 1511  143.64  SAMP.NO.  TION:1332 S 2840 E 1612  707.70  SAMP.NO.	TIME : 20:40:00 21:08:00 28 LOG : 1494.30 1495.40 1.60 FDEPTH: 177 174 BDEPTH: 177 174 Towing dir: 40 Wire of the control of t	(min) Purpose or Area code GearCond. ( Validity of Val	ode: 3 : 1 code: 5 code: 5 code: 1 : 34 kn*10  CATCH/HOUR: R R	314.14 C. C. SAMP.NO34
Zeus capensis Maurolicus muelleri Todaropsis eblanae  Total  DATE:22/10/92 GEAR TY:	0.50 0.20 0.20 0.20 0.20 0.20 0.10  205.00  PE: PT No:1  Purpose cod Area code GearCond.co Validity co 100 m Speed: 71.82  CATCH/HOUR Weight numb 124.00 16.40 2.44 0.24 0.08  143.64  Purpose cod Area code GearCond.co Validity co 450 m Speed: 353.85  CATCH/HOUR Weight numb 274.00 174.00 70.00 53.00 31.00 274.00 174.00 70.00 53.00 31.00 26.50 21.50 19.00 2.70 2.00 0.60 0.20 0.10	10 0.24 2 0.10 2 0.10 2 0.05	S 2739 E 1511  143.64  SAMP.NO.  TION:1332 S 2840 E 1612  707.70  SAMP.NO.	TIME : 20:40:00 21:08:00 28 LOG : 1494.30 1495.40 1.60 FDEPTH: 177 174 BDEPTH: 177 174 Towing dir: 40 Wire of Sorted: 56 Kg Total cat SPECIES  Merluccius capensis Genypterus capensis Merluccius capensis (Female Trachurus capensis Merluccius capensis, male Holohalaelurus regani Squalus megalops Cynoglossus capensis Zeus capensis Coelorinchus fasciatus Emmelichthys nitidus Solenocera africana Congiopodus spinifer Todaropsis eblanae Paracallionymus costatus Physiculus capensis Notopogon macrosolen  Total  DATE: 23/10/92 GEAT Start Stop duratic TIME : 02:44:00 03:14:00 30 CO : 1544.80 1546.10 1.47 FDEPTH: 387 378 BDEPTH: 387 378 BOEPTH: 387 378 BOEPT	(min) Purpose of Area code GearCond. (	ode: 3 : 1 code: 5 code: 5 code: 1 : 34 kn*10  CATCH/HOUR: R R	314.14  C. C. SAMP.NO.  34

			STATIC	N:1337
DATE: 23/10/92	GEAR TYPE:	BT No:1 POSITION:1	at S	2943
start s	stop duration	I	ong E	1431
TIME : 05:21:00 05	5:51:00 30 (min) I	Purpose code: 3		
LOG :1560.90 15		Area code : 1		
FDEPTH: 554	533	GearCond.code:		

FDEPTH: 554 533 GearCond.code: Validity code: Towing dir: 10 Wire out:1500 m Speed: 27 kn\*10

Sorted: 38 Kg Total catch	38.34	CATCH	/HOUR:	76.68
SPECIES	CATCH/	HOUR %	OF TOT. C	SAMP.NO.
	weight	numbers		
Merluccius paradoxus, female	23.20	26	30.26	33
Coelorinchus sp.	17.20	280	22,43	
Plesionika martia	5.58	1024	7.28	
Merluccius paradoxus, male	5.40	10	7.04	32
Helicolenus dactylopterus	4.00	10	5.22	
Photichthys argenteus	3.32	228	4.33	
Shrimps, small, non comm.	2.82		3.68	
Raja confundens	2.80	4	3.65	
Etmopterus lucifer	2.50	114	3.26	
Photonectes braueri	2.32	44	3.03	
Nezumia milleri	1.56	50	2.03	
Selachophidium quentheri	1.56	28	2.03	
OPISTHOTEUTHIDAÉ	1.50	2	1,96	
Todarodes sagittatus	0.96	4	1.25	
Notacanthus sexspinis	0.92	18	1.20	
MYCTOPHIDAE	0.58	34	0.76	
Myxine capensis	0.28	- <u>;</u>	0.37	
Tripterophycis gilchristi	0.10	4	0.13	
CRABS	0.08	2	0.10	
Paracallionymus costatus	0.00	2 2	****	
Total	76.68		100.01	

								P	ROJE	CT STA	TIC	N:1338
DATE:	23/10/92		GE A	R TYPE:	BT	No:3	L E	POSI	TION	:Lat	S	2913
	start	stop o								Long	Ε	1430
	:09:57:00				Purp	oose	code:	: 3		-		
LOG	:1591.80	1593.20	1,50		Area	COC	le	: 1				
FDEPI	H: 421	402			Gear	Conc	l.code	:				
BDEPI	H: 421	402			Vali	dity	code	<b>:</b> :				
	Towing d	ir: 350	Wire	out:115	0 m	Spe	ed: 2	28 k	n*10			

Sorted: 143 Kg Total catch:	142.63	CATCH/	HOUR:	276.06
SPECIES	CATCH/HC	OUR % C	F TOT. C	SAMP.NO.
Merluccius paradoxus, female	138.00	310	49.99	35
Merluccius paradoxus, male	98.71	225	35.76	34
Lophius upsicephalus	9.87	4	3.58	٠.
Genypterus capensis	7.51	8	2.72	36
Todarodes sagittatus	6.97	8	2.52	
Deepwater fish mixture	5.03		1.82	
Raja confundens	2.42	2	0.88	
Helicolenus dactylopterus	1.94	12	0.70	
Lycoteuthis diadema	1.26	50	0.46	
Malacocephalus laevis	1.10	6	0.40	
Holohalaelurus regani	0.75	4	0.27	
MYCTOPHIDAE	0.64	35	0.23	
Rossia sp.	0.50	17	0.18	
Cynoglossus capensis	0.41	6	0.15	
Coelorinchus sp.	0.35	6	0.13	
Photonectes braueri	0.29	6	0.11	
Etmopterus pusillus	0.19	10	0.07	
Photichthys argenteus	0.12	4	0.04	
Total	276.06	-	100.01	

										N:1339
DATE: 2	3/10/92		GEAR	TYPE:	BT No:1	POS	SITION	Lat	S	2909
	star	t stop	duratio	n				Long	E	1433
TIME	:11:36:	00 12:06:0	0 30 (	min)	Purpose o	ode:	3			
LOG	:1597.9	0 1599.50	1.65		Area code	: :	1			
FDEPTH	: 30	0 284			GearCond.	code:				
BDEPTH	: 30	0 284			Validity	code:				
	Towing	dir: 350	Wire o				kn*10			

Sorted: 161 Kg Total catch:	1075.00	) CATCH	/HOUR: 2	150.00
SPECIES	CATCH/	HOUR %	OF TOT. C	SAMP.NO.
	weight	numbers		
Merluccius capensis, female	629.40	1186	29.27	38
Trachurus capensis	426.60	1522	19.84	41
Zeus capensis	346.60	982	16.12	
Lepidopus caudatus	237.40		11.04	
Merluccius capensis, male	200.00	894	9.30	37
Merluccius paradoxus, female	153.40	520	7.13	40
Merluccius paradoxus, male	70.60	334	3.28	39
Thyrsites atun	33.80	14	1.57	
Nezumia milleri	12.80	294	0.60	
Helicolenus dactylopterus	11.60	54	0.54	
Emmelichthys nitidus	8.60	14	0.40	
Genypterus capensis	7.60	14	0.35	
Coelorinchus fasciatus	5.40	66	0.25	
Holohalaelurus regani	3.60	26	0.17	
Todaropsis eblanae	2.60	26	0.12	
Total	2150.00		99.98	

						ROJECT STA		N:1340
DATE: 23/10,	/92	GE.	AR TYPE:	BT No:1	POSI	TION: Lat	S	2903
		op durat.				Long	E	1446
TIME :14:3	14:00 14:	44:00 30	(min)	Purpose code	:: 3			
LOG :161				Area code				
FDEPTH:	217	207		GearCond.cod	le:			
BDEPTH:	217	207		Validity coo	le:			
Tow	ing dir:	40 Wire	out: 80	0 m Speed:	30 k	n*10		

Merluccius capensis, female         weight Numbers           Merluccius capensis, male         84.40         160         38.92           Merluccius capensis, male         34.60         102         15.95           Trachurus capensis         25.60         92         11.80           Brama brama         21.20         10         9.78           Lepidopus caudatus         13.40         6.18         6.18           Lophius upsicephalus         6.50         6         3.00           Zeus capensis         6.38         30         2.94           Helicolenus dactylopterus         5.88         44         2.71           Thyrsites atun         4.00         2         1.84           Congiopodus torvus         3.56         2         1.64           Holohalaelurus regani         3.54         14         1.63           Merluccius paradoxus, female         1.54         6         0.71           Etrumeus whiteheadi         1.48         20         0.68	.NO. 43 42 46
Merluccius capensis, female         weight Numbers           Merluccius capensis, male         84.40         160         38.92           Merluccius capensis, male         34.60         102         15.95           Trachurus capensis         25.60         92         11.80           Brama brama         21.20         10         9.78           Lepidopus caudatus         13.40         6.18         6.18           Lophius upsicephalus         6.50         6         3.00           Zeus capensis         6.38         30         2.94           Helicolenus dactylopterus         5.88         44         2.71           Thyrsites atun         4.00         2         1.84           Congiopodus torvus         3.56         2         1.64           Holohalaelurus regani         3.54         14         1.63           Merluccius paradoxus, female         1.54         6         0.71           Etrumeus whiteheadi         1.48         20         0.68	43 42
Merlucaius capensis, male         34,60         102         15.95           Trachurus capensis         25.60         92         11.80           Brama brama         21,20         10         9.78           Lepidopus caudatus         13.40         6.18           Lophius upsicephalus         6.50         6         3.00           Zeus capensis         6.38         30         2.94           Helicolenus dactylopterus         5.88         44         2.71           Thyrsites atun         4.00         2         1.84           Congiopodus torvus         3.56         2         1.64           Holohalaelurus regani         3.54         14         1.63           Merlucalus paradoxus, female         1.54         6         0.71           Etrumeus whiteheadi         1.48         20         0.68	42
Trachurus capensis   25.60   92   11.80	42
Brama brama   21.20   10   9.78	
Lepidopus caudatus 13.40 6.18 Lophius upsicephalus 6.50 6 3.00 Zeus capensis 6.38 30 2.94 Helicolenus dactylopterus 5.88 44 2.71 Thyrsites atun 4.00 2 1.84 Conglopodus torvus 3.56 2 1.64 Holohalælurus regani 3.54 1 1.63 Merlucolus paradoxus, female 1.54 6 0.71 Etrumeus whiteheadi 1.48 20 0.68	
Lepidopus caudatus	
Lophius upsicephalus     6.50     6     3.00       Zeus capensis     6.38     30     2.94       Helicolenus dactylopterus     5.88     44     2.71       Thyrsites atun     4.00     2     1.84       Conglopodus torvus     3.56     2     1.64       Holohalaelurus regani     3.54     14     1.63       Merluccius paradoxus, female     1.54     6     0.71       Etrumeus whiteheadi     1.48     20     0.68	
Zeus capensis 6.38 30 2.94 Helicolenus dactylopterus 5.88 44 2.71 Thyrsites atun 4.00 2 1.64 Conglopodus torvus 3.56 2 1.64 Holohalaelurus regani 3.54 14 1.63 Merluccius paradoxus, female 1.54 6 0.71 Etrumeus whiteheadi 1.48 20 0.68	
Helicolenus dactylopterus   5.88   44   2.71     Thyrsites atun   4.00   2   1.84     Conglopodus torvus   3.56   2   1.64     Holohalaelurus regani   3.54   14   1.63     Merluccius paradoxus, female   1.54   6   0.71     Etrumeus whiteheadi   1.48   20   0.68	
Thyrsites atun 4.00 2 1.84 Conglopodus torvus 3.56 2 1.64 Holohalaelurus regani 3.54 14 1.63 Merlucius paradoxus, female 1.54 6 0.71 Etrumeus whiteheadi 1.48 20 0.68	
Congiopodus torvus     3.56     2     1.64       Holohalaelurus regani     3.54     14     1.63       Merluccius paradoxus, female     1.54     6     0.71       Etrumeus whiteheadi     1.48     20     0.68	
Holohalaelurus regani 3.54 14 1.63 Merluccius paradoxus, female 1.54 6 0.71 Etrumeus whiteheadi 1.48 20 0.68	
Merluccius paradoxus, female 1.54 6 0.71 Etrumeus whiteheadi 1.48 20 0.68	
Etrumeus whiteheadi 1.48 20 0.68	9.4
Raja straeleni 1.42 2 0.65	
Chelidonichthys capensis 1.14 6 0.53	
Todaropsis eblanae 0.54 6 0.25	
Merluccius paradoxus, juvenile 0.54 54 0.25	15
Austroglossus microlepis 0.50 6 0.23	
Sepia australis 0.36 24 0.17	
Coelorinchus fasciatus 0.20 2 0.09	
Paracallionymus costatus 0.08 10 0.04	
Total 216.86 99.99	

	PROJECT STATION:1341
DATE: 23/10/92 GE	AR TYPE: BT No:1 POSITION:Lat S 2856
start stop durat	
TIME :17:25:00 17:57:00 32	
LOG :1631.20 1632.50 1.60	Area code : 1
FDEPTH: 174 172	GearCond.code:
BDEPTH: 174 172	Validity code:
Towing dir: 20 Wire	out: 700 m Speed: 30 kn*10
Sorted: 125 Kg Total o	atch: 124.52 CATCH/HOUR: 233.48

SPECIES	CATCH	/HOUR %	OF TOT. C	SAMP.NO.
	weight	numbers		
Merluccius capensis, female	78.00	101	33.41	48
Merluccius capensis	36.75	563	15.74	49
Sepia australis	21.56	2676	9.23	
Merluccius capensis, male	15.56	45	6.66	47
Lophius upsicephalus	15.19	11	6.51	
Trachurus capensis	12.38	45	5.30	51
Mustelus mustelus	11.63	15	4.98	
Lepidopus caudatus	9.38	53	4.02	
Thyrsites atun	6.56	2	2.81	
Chelidonichthys capensis	6.24	15	2.67	
Todaropsis eblanae	5.44	79	2.33	
Holohalaelurus regani	3.43	11	1.47	
Merluccius paradoxus, juvenile	3.38	161	1.45	50
Zeus faber	2.23	28	0.96	
Helicolenus dactylopterus	2.01	51	0.86	
Cynoglossus capensis	1.37	15	0.59	
Raja straeleni	1.31	2	0.56	
Maurolicus muelleri	0.56	•	0.24	
Genypterus capensis	0.32	4	0.14	
Paracallionymus costatus	0.19	23	0.08	
CHAMPSODONTIDAE	0.00	2	5.00	
Total	233.49		100.01	

		PROJECT ST	ATION:1342
DATE: 23/10/92 GEAR TY	E: BT No:1 P	OSITION:Lat	S 2850
start stop duration		Long	E 1510
TIME :19:08:00 19:39:00 31 (min)	Purpose code:		
LOG :1640.40 1641.90 1.70 -	Area code	: 1	
FDEPTH: 158 159	GearCond.code		
BDEPTH: 158 159	Validity code	•	
Towing dir: 50 Wire out:	650 m Speed: 3		
-	•		
Sorted: 138 Kg Total catch:	137.53 CA	rch/Hour:	266.19
SPECIES	armay (name		
SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
Merluccius capensis, female	weight number:		
Merluccius capensis, male			53
Galeorhinus galeus	41.42 8		52
Sepia australis		2 10.83	
	23.42 136		
Merluccius capensis	22.06 45		54
Chelidonichthys capensis	17.23		
Trachurus capensis	8.23 43		56
Squalus megalops	8.13 1		
Merluccius paradoxus, juvenile	6.50 70		55
Cynoglossus capensis	4.01 5		
Helicolenus dactylopterus	3.93 34		
Lophius upsicephalus	3.54 10		
Zeus capensis	3.41 83		
Emmelichthys nitidus		0.86	
Paracallionymus costatus	1.41	0.53	
CONGRIDAE	0.97 50		
Todaropsis eblanae	0.60		
Lepidopus caudatus	0.48 1		
Solenocera africana	0.15 2		
Congiopodus spinifer	0.15	0.06	
Total	266.18	100.00	

															TIC	N:134
DATE: 2	3/10	/92				GE	AR TY	?E: B	T No:	:1 1	POS	SITI	ON:	Lat	S	2838
		tart		stop		iurat	ion							Long	E	1530
TIME	:22:	14:0	10 :	22:44	:00	30	(min	Pu	rpose	e code	:	3		•		
LOG	:166	0.40	1 :	1661.	80	1.70		Ar	ea co	ode	:	1				
FDEPTH	:	177	•	1	74			Ge	arCor	nd.code	e:	-				
BDEPTH	:	177		1	74			Va	lidit	ty code	e:					
	Tow	ing	<b>d</b> 1:	r: 5	5	Wire	out:			peed: :		kn*	10			
Sort	ed:	33	Κg		Tot	al c	atch:		68.10	0 C2	ATO	CH/H	IOUR	:	136	. 20

SPECIES	CATCH	/NOUR *	OF TOT. C	SAMP.NO.
DI BOILD	weight	numbers	OF 101. C	SAMP.NO.
Merluccius capensis	112.00	1700	82.23	57
Holohalaelurus regani	6.88	84	5.05	٠,
Paracallionymus costatus	5.28		3.88	
Raja straeleni	3.28	2	2.41	
Helicolenus dactylopterus	3.28	116	2.41	
Cynoglossus capensis	1.60	52	1.17	
Genypterus capensis	1.44	8	1.06	
Sepia australis	0.96	52	0.70	
Lophius upsicephalus	0.88	4	0.65	
Myxine capensis	0.36	4	0.26	
Etrumeus whiteheadi	0.16	4	0.12	
Congiopodus spinifer	0.08	4	0.06	
Total	136.20		100.00	

DATE: 2	24/10/92		GEAR TYP	E: BT No:1	POSITION: Lat	S	2817
	start		duration		Long	E	1552
TIME	:02:23:00	02:53:00	30 (min)	Purpose co	ode: 3		
LOG	:1691.70	1693.10	1.60	Area code			
FDEPT	H: 88	89		GearCond.	ode: 8		
BDEPT	H: 88	89		Validity of	ode:		
	Towing d	lir: 310	Wire out:	450 m Speed	i: 32 kn*10		

SPECIES	CATCH	/HOUR %	OF TOT. C	SAMP.NO.
	weight	numbers		
Genypterus capensis	150.00	104	42.72	58
Merluccius capensis, female	77.60	768	22.10	60
Merluccius capensis, male	67.20	760	19.14	59
Callorhinchus capensis	22.72	40	6.47	
Raja straeleni	21.76	8	6.20	
Chelidonichthys capensis	7.52	56	2.14	
Helicolenus dactylopterus	1.84	8	0.52	
Sepia sp.	1.04	24	0.30	
Holohalaelurus regani	0.56	8	0.16	
Austroglossus microlepis	0.48	16	0.14	
Paracallionymus costatus	0.40	64	0.11	
Total	351.12		100.00	

						PROJEC	T STA	TIO	1:134
DATE: 24/10	/92	G:	EAR TYPE	BT No:	l Po	OSITION:	Lat	S	2822
	tart s						Long	£	1511
TIME :09:	20:00 09	:50:00 30	(min)	Purpose	code:	3			

TIME :09:20:00 09:50:00 30 LOG :1728.20 1730.00 1.50 FDEPTH: 172 169 BDEPTH: 172 169 Towing dir: 50 Wire 1.50 Area code: 3
1.50 Area code: 1
GearCond.code:
Validity code:
Wire out: 700 m Speed: 30 kn\*10

Sorted: 89 Kg Total catch	: 223.99	CATCH/HOUR	: 447.98
SPECIES	CATCH/HOU	R % OF TO	OT. C SAMP.NO.
Merluccius paradoxus MYCTOPHIDAE	233.40 81.60	4040 5	2.10 63 8.22
Merluccius capensis, female Galeorhinus galeus	40.60 32.40		9.06 62 7.23
Merluccius capensis, male Chelidonichthys capensis	22.40 12.70		5.00 61 2.83
Sepia australis Helicolenus dactylopterus	7.28 6.62	438	1.63
Todaropsis eblanae Lophius upsicephalus	3.92 1.40	88	0.88
Zeus faber Cynoglossus capensis	0.98	32	0.22 0.18
Merluccius paradoxus, juvenile Austroglossus microlepis	0.74 0.74	80	0.17 64 0.17
Congiopodus spinifer Paracallionymus costatus	0.72 0.70	4	0.16
Lepidopus caudatus Etrumeus whiteheadi	0.60 0.28	28	0.13
Squilla acuelata calmani	0.10		0.02
Total	447.98	10	0.01

								PI	ROJECT STA	ATIC	N:1346
DATE: 2	4/10/92		GEA	R TYPE	: BT	No:	Į.	POSI'	FION:Lat	s	2831
	start		duration						Long	Ε	1454
TIME	:13:08:00	13:38:00	30	(min)	Pur	oose	code	: 3	-		
		1752.40					ie				
FDEPTH	: 178	176			Gea	rcond	d. cod	e:			
BDEPTH	: 178	176			Val:	ldity	/ cod	e:			
	Towing d	ir: 30	Wire o	out: 7					n*10		

CATCU/HOUR: 282 42

Total catch: 141 21

Sorted: 47 Kg

Sorted, 47 kg Total Catch	1: 141.2	1 CATC	H/HOOK:	282.42
SPECIES	CATCH	HOUR %	OF TOT. C	SAMP.NO.
	weight	numbers		
Merluccius paradoxus, female	133.20	2826	47.16	67
MYCTOPHIDAE	51.00		18.06	
Sepia australis	25.74	1398	9.11	
Merluccius paradoxus, juvenile	18.30	1356	6.48	65
Merluccius paradoxus, male	12.42	252	4.40	66
Merluccius capensis, female	10.26	18	3.63	69
Lophius upsicephalus	6.18	. 18	2.19	
Merluccius capensis, male	6.06	24	2.15	68
Squalus megalops	5.28	12	1.87	
Deepwater fish mixture	3.60		1.27	
Austroglossus microlepis	2.76	66	0.98	
Helicolenus dactylopterus	1.86	174	0.66	
Trachurus capensis	1.44	6	0.51	
Todarodes sagittatus	1.14	12	0.40	
Holohalaelurus regani	1.14	6	0.40	
Paracallionymus costatus	0.84	102	0.30	
Lepidopus caudatus	0.78	36	0.28	
Zeus capensis	0.24	6	0.08	
Congiopodus torvus	0.18	6	0.06	
Total	282.42		99.99	

								PROJE	CT STA	TIC	N:1347
DATE: 2	24/10/92		GEAR	TYPE	: BT	No:1	PO	SITION	:Lat	S	2833
	start								Long	E	1445
TIME	:15:20:00	15:50:00	30	(min)	Purp	ose cod	ie:	3			
LOG	:1764.20	1765.70	1.47			code					
FDEPTH	1: 194	192			Gear	Cond.co	xde:	_			
BOEPTH	i: 194	192				dity co					
	Towing d	ir: 20	Wire o	out: 8				kn*10			

Sorted: 97 Kg Total catch:	366.16	CATCH	/HOUR:	732.32
SPECIES	CATCH/H weight r	OUR %	OF TOT. C	SAMP.NO.
Merluccius paradoxus, male	169.02	2052	23.08	75
Merluccius capensis, female	94.00	98		
Merluccius paradoxus, female			12.84	71
	90.18	1350	12.31	76
Brama brama	74.16	36	10.13	
Lepidopus caudatus	63.36	1314	8.65	
Merluccius capensis, female	54.72	162	7.47	73
MYCTOPHIDAE	50.58		6.91	
Squalus megalops	42.48	54	5.80	
Merluccius capensis, male	23.80	16	3.25	70
Thyrsites atun	18.00	8	2.46	
Merluccius capensis, male	15.12	36	2.06	72
Merluccius paradoxus, juvenile	12.06	900	1.65	74
Sepia australis	10.98	990	1.50	
Todarodes sagittatus	5.76	18	0.79	
Etrumeus whiteheadi	3.78	54	0.52	
Paracallionymus costatus	1.44	162	0.20	
Zeus capensis	1.44	18	0.20	
Congiopodus spinifer	0.90	18	0.12	
Helicolenus dactylopterus				
nelicolenus dactylopterus	0.54	36	0.07	
Total	732.32		100.01	

					PROJECT STA	ATIC	N:1348
DATE: 2	24/10/92		GEAR T	PE: BT No:1	POSITION: Lat	S	2839
	start		duration		Long	E	1437
TIME	:18:38:00	19:06:00	28 (mi	) Purpose co	ode: 3	-	
LOG	:1779.10	1780.50	1.50	Area code			
FDEPTI	1: 169	166		GearCond.c			
BDEPTE	1: 169	166		Validity o	ode:		
	Towing d	ir: 130	Wire out	701 m Speed			

Sorted: 72 Kg Total catch: 72.33 CATCH/HOUR: 154.99

SPECIES	CATCH	/HOUR %	OF TOT. C	SAMP.NO.
	weight	numbers		
Thyrsites atun	57.21	28	36.91	79
Merluccius capensis, female	41.68	17	26.89	78
Zeus capensis	28.29	334	18.25	
Merluccius capensis, male	7.61	4	4.91	77
Mustelus palumbes	5.76	4	3.72	
Emmelichthys nitidus	4.76	238	3.07	
Chelidonichthys capensis	4.03	15	2.60	
Lepidopus caudatus	2.29	15	1.48	
Squalus megalops	1.26	2	0.81	
Sepia australis	0.73	56	0.47	
Arnoglossus capensis	0.47	49	0.30	
Conglopodus spinifer	0.45	2	0.29	
Helicolenus dactylopterus	0.24	ã	0.15	
Scyliorhinus capensis	0.15	á	0.10	
Paracallionymus costatus	0.06	ģ	0.04	

154.99

99.99

Total

									PROJ	ECT ST	ATIC	N:1349
DATE: 2	5/10	7/92		GE ?	AR TYPE:	ВT	No:1	PO	SITIC	N:Lat	S	2817
		start		durat:						Long	E	1424
TIME	:06:	18:00	06:48:00	30	(min)	Pun	ose o	ode:	3	-		
LOG	:185	55.90	1857.40	1.50		Are	code	. :	1			
FDEPTH	:	570	597			Gea	Cond.	code:				
BDEPTH:	:	570	597			Val:	ldity	code:				
	Tov	ring di	lr: 15	Wire	out:150	0 m	Spec	d: 29	kn*1	.0		
		-					-					

Sorted: 138 Kg	Total catch:	301.79	CATCH/HOUR:	603.58
SPECIES		CATCH/HOUR		SAMP.NO.
Merluccius paradoxus, fe		weight numb 400.40	ers 532 66.34	81

Meriuccius paradoxus, femal Meriuccius paradoxus, male Coelorinchus fasciatus Deania profundorum Nezumia milleri Etmopterus lucifer Todarodes sagittatus Oreosoma atlanticum Notacanthus sexspinis Genypterus capensis Etmopterus pusillus Selachophidium quentheri Zenopsis conchifer Aristeus varidens Helicolenus dactylopterus Helicolenus dactylopterus 73.48 32.60 22.66 19.84 12.20 11.20 7.20 3.88 3.60 2.24 1.24 0.52 0.32 172 12.17 5.40 3.75 3.29 2.02 2.02 2.02 1.19 0.64 0.60 0.37 0.21 0.09 Total 603.58 100.00

				PROJECT STA		N:1350
DATE: 25/10/92		AR TYPE: BT	No:1 PO	SITION:Lat	s	2817
start	stop durat	ion		Long	E	1428
TIME :08:19:00	08:49:00 30	(min) Purp	ose code:	3		
LOG :1864.00	1865.60 1.50		code :			
FDEPTH: 419	450		Cond.code:			
BDEPTH: 419	450	Vali	dity code:			
Towing d	ir: 10 Wire	out:1200 m	Speed: 27	kn*10		

Sorted: 191 Kg Total catch: 748.62 CATCH/HOUR: 1497.24

SPECIES	CATCH	/HOUR %	OF TOT. C	SAMP . NO	
	weight	numbers			
Merluccius paradoxus, female	1060.76	2264	70.85	8 4	
Merluccius paradoxus, male	233.68	1030	15.61	83	
Genypterus capensis	71.80	22	4.80	82	
Merluccius capensis	26.68	28	1.78		
Coelorinchus fasciatus	25.58	174	1.71		
Todarodes sagittatus	25.48	36	1.70		
Deania profundorum	18.12	10	1.21		
Squalus mitsukurii	13.98	10	0.93		
Notacanthus sexspinis	10.02	64	0.67		
Holohalaelurus regani	5.34	10	0.36		
CONGRIDAE	2.66	10	0.18		
Raja confundens	2.40	10	0.16		
Malacocephalus laevis	0.56	18	0.04		
Hoplostethus cadenati	0.18	10	0.01		
Total	1497.24		100.01		

									PROJE	CT STA	TIC	N:135
DATE: 25	5/10/92		GE	AR TYPE:	BT	No:1		PO:	SITION	:Lat	s	2815
	start		durat:							Long	E	1431
TIME :	09:47:0	0 10:17:0	0 30	(min)	Purp	ose (	code	:	3	•		
LOG :	1869.90	1871.60	1.40		Area	code	e	:	1			
FDEPTH:	315	335			Gear	Cond	. cod	e:	-			
BDEPTH:	315	335				dity						
	Towing	dir: 15	Wire									

512.33 CATCH/HOUR: 1024.66

99.99

SPECIES	CATCH/E	OUR %	OF TOT. C	SAMP.NO.
	weight	numbers		
Merluccius paradoxus, female	562.14	2464	54.86	89
Merluccius paradoxus, male	154.66	1162	15.09	88
Merluccius capensis, female	146.14	138	14.26	87
Genypterus capensis	77.80	30	7.59	85
Merluccius capensis, male	39.46	54	3.85	86
Todarodes sagittatus	12.26	10	1.20	• •
Holohalaelurus regani	10.98	22	1.07	
Malacocephalus laevis	9.38	96	0.92	
Coelorinchus fasciatus	8.74	96	0.85	
MYCTOPHIDAE	1.28		0.12	
Galeus polli	1.18	10	0.12	
CRABS	0.42	10	0.04	
Sepia australis	0.22	22	0.02	
Squilla acuelata calmani	0.00	10		

DATE:							E: BT	No:1	PO	SITION	:Lat	s	281
			sto								Long	E	141
TIME	:11:	:43:00	12:3	3:00	30	(min)	Purp	ose	code:	3	-		
LOG	:187	79.00	1880	.60	1.33		Area	cod	e :	1			
FDEPT.	H:	206		215			Gear	Cond	. code:				
BDEPT	H:	206		215			Vali	ditv	code:				
	Tov	ding o	iir:	30	Wire	out:	800 m			kn*10			

SPECIES	CATCH	/HOUR %	OF TOT, C	SAMP.NO.
	weight	numbers		
Merluccius paradoxus, female	155.00	1980	49.28	91
Merluccius paradoxus, male -	38.20	480	12.14	90
Merluccius capensis, female	33.80	60	10.75	93
Nezumia milleri	33.40	550	10.62	
Chelidonichthys capensis	18.40	30	5.85	
Galeorhinus galeus	13.80	2	4.39	
MYCTOPHIDAE	10.40		3.31	
Thyrsites atun	5.06	2	1.61	
Merluccius capensis, male	4.20	30	1.34	92
Trachurus capensis	1.80	10	0.57	
Helicolenus dactylopterus	0.30	70	0.10	
Physiculus capensis	0.20	10	0.06	
Total	314.56		100.02	

								PROJE	CT ST	TIC	N:1353
DATE: 25	5/10/92		GEA	R TYPE	E: BT	No:1	PO	SITION	:Lat	S	2808
	start	stop	durati	on					Long	E	1449
TIME :	:15:09:00	15:39:00	30	(min)	Pur	oose c	ode:	3			
LOG :	1897.40	1899.10	1.63			a code					
FDEPTH:	192	194			Gear	Cond.	code:				
BDEPTH:	: 192	194			Vali	dity	code:				
	Towing di	lr: 77	Wire	out: 7				kn*10			

Sorted: 47 Kg Total catch: 359.50 CATCH/HOUR: 719.00

SPECIES CATCH/HOUR % OF TOT, C SAMP.NO. ight numbers CATCH/ Weight 270.00 262.00 91.60 25.40 25.20 16.20 16.20 6.60 5.80 MYCTOPHIDAE
Merluccius paradoxus, female
Merluccius paradoxus, male
Merluccius capensis
Galeorhinus galeus
Chelidoniothtys capensis
Sepia australis
Trachurus capensis
Etrumeus whiteheadi 37.55 36.44 12.74 3.53 3.50 2.25 2.11 0.92 0.81 0.14 2320 760 100 2 40 960 40 100 Helicolenus dactylopterus 1.00 719.00 Total 99.99

PROJECT STATION:1354
GEAR TYPE: BT No:1 POSITION:Lat S 2803
ration DATE: 25/10/92 Lat S 2803 Long E 1501 DATE: 25/10/92 GEAR TYPE: BT No:1 POSITION:

start stop duration

TIME :18:35:00 19:04:00 29 (min) Purpose code: 3
LOG :1916.20 1917.70 1.70 Area code : 1

FDEPTH: 1.77 1.75 GearCond.code:

TOWING dir: 30 Wire out: 700 m Speed: 32 kn\*10

Sorted: 22 Kg Total catch: 178.40 CATCH/HOUR: 369.10

J69.10

/HOUR % OF TOT. C SAMP.NO.
numbers 34.98 100
811 30.05 98
877 20.18
331 6 7 CATCH/HOUR CATCH/ weight 129.10 110.90 74.48 24.83 19.03 6.12 3.14 1.16 0.33 0.00 0.00 Merluccius paradoxus, female Merluccius capensis, female Merluccius capensis, female Merluccius capensis, male Merluccius paradoxus, male MYCTOPHIDAE Sepia australis Trachurus capensis Trodarodes sagittatus Helicolenus dactylopterus Sufflogobius bibarbatus Paracallionymus costatus 20.18 6.73 5.16 1.66 0.85 298 0.31 Total 369.09 100.01

Total catch: 287.80 CATCH/HOUR: 557.03

7HOUR & OF TOT. C SAMP.NO.
numbers 405 55.73 102
1694 23.01
72 7 SPECIES CATCH/HOUR Merluccius paradoxus, female Coelorinchus braueri Merluccius paradoxus, male Nezumia milleri Geryon maritae Helicolenus dactylopterus Deania calcea Hoplostethus atlanticus Todarodes sagittatus Etmopterus lucifer Selachophidium guentheri Deania profundorum Allocyttus verrucosus Photichthys argenteus Raja sp. weight 310.41 128.17 39.17 21.87 23.01 7.03 3.93 1.96 1.72 1.64 1.08 0.87 0.50 0.45 0.31 0.29 0.26 0.22 0.18 0.08 106 60 17 10.94 9.58 9.12 6.00 4.86 3.83 2.77 2.48 1.74 1.63 1.20 0.46 0.35 17 14 29 68 4 17 Photichthys argenteus Raja sp. Notacanthus sexspinis Shrimps, small, non comm. Raja leopardus Ebinania costaecanarie 4 35 Total 557.04 100.01

DATE: 26/10/92 GEAR TYPE: BT No:1 PROJECT STATION: 1350 Start stop duration Purpose code: 3 Long E 1433 LOG : 2000.80 2002.30 1:60 Area code : 1 FDEPTH: 490 491 GearCond.code: BDEPTH: 490 491 Validity code: 490 Wire out: 1350 m Speed: 31 kn\*10 PROJECT STATION:1356

Total catch: 328.44 CATCH/HOUR:

CATCH/HOUR % OF TOT. C SAMP.NO.
weight numbers
386.40 1008 58.82 104
143.20 592 21.80 103
54.40 690 8.28
14.96 24 2.28
12.00 24 1.83
10.88 16 1.66
10.32 128 1.57
6.96 24 1.06
6.64 144 1.01
5.28 88 0.80
1.60 56 0.24
1.28 16 0.19 SPECIES Merluccius paradoxus, female Merluccius paradoxus, male Coelorinchus braueri 58.82 21.80 8.28 2.28 1.66 1.57 1.06 0.24 0.19 0.18 0.15 0.12 Todarodes sagittatus Hydrolagus sp. Deania profundorum Malacocephalus laevis Ebinania costaecanarie Etmopterus lucifer Selachophidium guentheri Selacnophidium guentus
Nezumia milleri
Notacanthus sexspinis
Epigonus denticulatus
MYCTOPHIDAE
Photichthys argenteus 1.60 1.28 1.20 56 0.80 Total 656.88 99.99

Sorted: 82 Kg

								PROJEC	CT STA	TIO	N:1357
DATE: 2	6/10/92		GEAR	TYPE:	ВT	No:1	PO:	SITION	Lat	S	2740
		stop d							Long	E	1436
TIME	:09:16:00	09:49:00	33 (1	min)	Purp	ose code	:	3	-		
LOG	:2008.30	2009.80	1.70		Area	code	:	1			
FDEPTH	: 395	395			Gear	Cond.cod	e:				
BDEPTH	: 395	395		•	Vali	dity cod	e:				
	Towing di	r: 340	Wire of	ut:110	m O	Speed:	30	kn*10			

498.30

CATCH/HOUR:

906.00

PROJECT CTATION 1350

SPECIES	CATCH	/HOUR \$	OF TOT. C	SAMP.NO.
	weight	numbers		
Merluccius paradoxus, female	480.00	1513	52.98	107
Merluccius paradoxus, male	248.73	778	27.45	106
Coelorinchus fasciatus	58.18	845	6.42	
MYCTOPHIDAE	48.36		5.34	
Todarodes sagittatus	31.27	109	3.45	
Genypterus capensis	14.27	5	1.58	105
Malacocephalus laevis	9.82	167	1.08	
Helicolenus dactylopterus	6.55	44	0.72	
Scyliorhinus capensis	3.27	7	0.36	
Holohalaelurus regani	2.04	7	0.23	
Shrimps, small, non comm.	1.16	451	0.13	
Nezumia milleri	0.80	95	0.09	
Coelorinchus braueri	0.65	29	0.07	
PORTUNIDAE	0.51	15	0.06	
Hoplostethus mediterraneus	0.22	15	0.02	
Epigonus denticulatus	0.15	36	0.02	
Rossia sp.	0.07	7	0.01	
Total	906.05		100.01	

Total catch:

Sorted: 130 Kg

		PRO	אדרי פיים	TION:1358
DATE: 26/10/92 GEAR T	YPE: BT No:1		ON:Lat	S 2737
start stop duration	11 D. D. NO.1	20311.	Long	
TIME :11:47:00 12:20:00 33 (mi	n) Purpose co	ode: 3	Long	E 1440
LOG :2022.00 2023.60 1.80	Area code			
FDEPTH: 330 329	GearCond.			
BDEPTH: 330 329	Validity of			
	:1000 m Speed		10	
*	-			
Sorted: 73 Kg Total catch	: 459.96	CATCH/	HOUR:	836.29
SPECIES	CATCH/HOU	R % O	F TOT. C	SAMP.NO.
		nbers	01. 0	SAME .NO.
Merluccius paradoxus, female	380.18	2478	45.46	113
Merluccius paradoxus, male	249.64	1845	29.85	112
Trachurus capensis	79.09	291	9.46	114
Merluccius capensis, female	34.36	22	4.11	109
Merluccius paradoxus, female	20.18	25	2.41	îii
Todarodes sagittatus	17.15	53	2.05	
Centrolophus niger	16.91	2	2.02	
Coelorinchus fasciatus	13.45	211	1.61	
Nezumia milleri	7.65	105	0.91	
Merluccius capensis, male	7.18	5	0.86	108
Holohalaelurus regani	6.07	27	0.73	
CRABS	1.85	80	0.22	
Helicolenus dactylopterus	1.33	27	0.16	
Merluccius paradoxus, male	1.24	2	0.15	110
Total -	836.28	-	100.00	
Total	030.28		100.00	

		PRO	JUECT STA	LION:1359
	YPE: BT No:1	POSIT	ION:Lat	S 2734
start stop duration			Long	E 1451
TIME :13:48:00 14:18:00 30 (mi	n) Purpose co	de: 3	•	
LOG :2032.80 2034.30 1.50	Area code	: 1		
FDEPTH: 294 301	GearCond.c	ode:		
BDEPTH: 294 301	Validity c	ode:		
Towing dir: 360 Wire out	: 950 m Speed		*10	
•				
Sorted: 84 Kg Total catch	: 424.19	CATCH/	HOUR:	348.38
SPECIES	CATCH/HOU	8 <b>6</b> 0	F TOT. C	SAMP.NO.
		bers		
MYCTOPHIDAE	692.00		81.57	
Merluccius paradoxus, female	32.60	288	3.84	116
Merluccius capensis, female	21.40	26	2.52	118
Brama brama	20.20	14	2.38	
Merluccius capensis, male	15.40	24	1.82	117
Thyrsites atun	15.00	8	1.77	
Trachurus capensis	14.40	80	1.70	
Centrolophus niger	12.42	2	1.46	
Genypterus capensis	8.94	6	1.05	
Merluccius paradoxus, male	5.62	60	0.66	115
Coelorinchus fasciatus	4.00	40	0.47	
Helicolenus dactylopterus	3.20	120	0.38	
CRABS	2.80	80	0.33	
Squilla acuelata calmani	0.40	80	0.05	
Total	848.38	-	100 00	
TOURT	040.38		100.00	

PECIES	CATCH/HOUR % OF TOT. C SAMP.NO.
Sorted: 78 Kg Total catc	th: 530.39 CATCH/HOUR: 1060.78
Towing dir: 345 Wire ou	t: 750 m Speed: 32 kn*10
BDEPTH: 196 204	Validity code:
FDEPTH: 196 204	GearCond.code:
LOG :2046.90 2048.40 1.70	Area code : 1
	nin) Purpose code: 3
start stop duration	
DATE: 26/10/92 GEAR	TYPE: BT No:1 POSITION:Lat S 2730
	PROJECT STATION:1360

SPECIES	CATCH/H	IOUR &	OF TOT, C	SAMP.NO.
	weight :	numbers		
MYCTOPHIDAE	418.20		39.42	
Merluccius capensis, female	147.90	1598	13.94	120
Merluccius capensis, male	144.50	1582	13.62	119
Trachurus capensis	142.80	782	13.46	123
Merluccius paradoxus, female	83.30	1190	7.85	122
Merluccius paradoxus, male	44.20	544	4.17	121
Chelidonichthys capensis	34.80	86	3.28	
Galeorhinus galeus	32.80	2	3.09	
Todarodes sagittatus	6.98	34	0.66	
Thyrsites atun	3.26	2	0.31	
Etrumeus whiteheadi	1.70	34	0.16	
Sepia australis	0.34	18	0.03	
Total	1060.78		99.99	

DATE:26/10/92 GEA Start stop duratí: TIME :17:57:00 18:27:00 30	no	PROJECT STATION:1361 POSITION:Lat S 2718 Long E 1505	DATE:27/10/92 GEA start stop durati TIME :07:26:00 07:56:00 30	R TYPE: BT No:1 POSI	PROJECT STATION:1366 TION:Lat S 2700 Long E 1359
LOG :2059.30 2060.70 1.70 FDEPTH: 149 147 BDEPTH: 149 147	Area code GearCond.cod Validity cod	: 1 le: le:	LOG :2145.00 2146.40 1.50 FDEPTH: 445 445 BDEPTH: 445 445	Area code : 1 GearCond.code: Validity code:	
Towing dir: 360 Wire of Sorted: 27 Kg Total cat	out: 600 m Speed: cch: 215.12 C			out:1200 m Speed: 28 k	
SPECIES 100 100 100 100 100 100 100 100 100 10	CATCH/HOUR	ATCH/HOUR: 430.24 % OF TOT. C SAMP.NO.	Sorted: 103 Kg Total ca	tch: 255.02 CATCH	/HOUR: 510.04
Merluccius capensis	weight numbe 250.40 38	rs	SPECIES	CATCH/HOUR \$ weight numbers	OF TOT. C SAMP.NO.
MYCTOPHIDAE Merluccius capensis, male		22.31 56 8.44 125	Merluccius paradoxus, female Merluccius paradoxus, male	352.00 730 79.00 160	69.01 139 15.49 138
Merluccius capensis, female Chelidonichthys capensis Sepia australis	6.88	44 8.33 126 32 1.60 44 0.74	Coelorinchus fasciatus Nezumia milleri Deania profundorum	34.00 448 8.00 200 6.36 10	6.67 1.57
Lepidopus caudatus	1.60	48 0.37	Etmopterus pusillus Todarodes sagittatus	6.36 10 4.40 26 4.30 6	1.25 0.86 0.84
Total	430.24	99.99	Hydrolagus sp. Deania calcea	3.66 6 3.60 6	0.72 0.71
DATE: 26/10/92 GEAR	R TYPE: BT No:1	PROJECT STATION:1362 POSITION:Lat S 2713	Selachophidium guentheri Helicolenus dactylopterus	3.60 66 2.00 16	0.71 0.39
start stop duratio	מס	Long E 1436	Genypterus capensis Coelorinchus braueri Nezumia leonis	2.00 2 1.50 26 1.06 30	0.39 0.29 0.21
LOG :2088.70 2090.20 1.40 FDEPTH: 318 314	Area code GearCond.cod	: 1 e:	Epigonus pandionis Lithodes ferox	1.04 50 0.90 2	0.20 0.18
BDEPTH: 318 314 Towing dir: 340 Wire	Validity code out:1000 m Speed:	e: 27 kn*10	Ebinania costaecanarie Notacanthus sexspinis	0.76 20 0.76 20	0.15 0.15
Sorted: 119 Kg Total cat	ch: 338.87 C	ATCH/HOUR: 635.38	Etmopterus lucifer Hoplostethus mediterraneus PORTUNIDAE	0.50 10 0.40 16 0.20 10	0.10
SPECIES	CATCH/HOUR weight numbe	N OF TOT. C SAMP.NO.	Total	0.20 10	100.01
Merluccius paradoxus, female Merluccius capensis, female	345.94 13 143.44 1	07 54.45 131		310104	100.01
Merluccius paradoxus, male Merluccius capensis, male	30.38	31 9.65 130 28 4.78 128			
Coelorinchus fasciatus Genypterus capensis	15.00	25 4.28 8 2.36 127		P	ROJECT STATION:1367
Trachurus capensis Lophius upsicephalus Helicolenus dactylopterus	2.53	17 1.17 2 0.40	start stop duration	חכ	TION:Lat S 2656 Long E 1405
Total	635.39	100.01	TIME :09:34:00 10:04:00 30 LOG :2153.50 2153.50 1.40 FDEPTH: 397 396	Area code : 1	
	033.39	100.01	BDEPTH: 397 396 Towing dir: 350 Wire	GearCond.code: Validity code: out:1100 m Speed: 27 k	n*10
DATE: 27/10/92 GEAR		PROJECT STATION:1363 POSITION:Lat S 2712	Sorted: 142 Kg Total cat		/HOUR: 1133.98
start stop duration TIME :00:39:00 01:09:00 30 ( LOG :2108.60 2109.90 1.58	(min) Purpose code		enproved and the second		
FDERTH: 386 383 BDEPTH: 386 383	Area code GearCond.code Validity code		SPECIES	weight numbers	OF TOT. C SAMP.NO.
	out:1150 m Speed:	31 kn*10	Merluccius paradoxus, female Merluccius paradoxus, male Coelorinchus fasciatus	709.20 1890 270.00 712 76.50 652	62.54 143 23.81 142 6.75
Sorted: 58 Kg Total cat	ch: 661.88 C	ATCH/HOUR: 1323.76	Lophius upsicephalus Todarodes sagittatus	36.00 4 14.04 18	3.17 140 1.24
SPECIES	CATCH/HOUR weight numbe		Helicolenus dactylopterus MYCTOPHIDAE	8.10 36 6.48	0.71 0.57
Merluccius paradoxus, female Merluccius paradoxus, male Coelorinchus fasciatus		28 15.64 132	Genypterus capensis Selachophidium guentheri	6.40 4 2.16 46	0.56 141 0.19
Trachurus capensis Helicolenus dactylopterus	69.70 1	20 6.53 84 5.27 62 0.56	Galeus polli Shrimps, small, non comm.	2.16 18 1.80 540	0.19 0.16
S H R I M P S Selachophidium guentheri	2.30	0.17 24 0.07	Notacanthus sexspinis Photichthys argenteus Epigonus pandionis	0.54 18 0.20 10 0.20 46	0.05 0.02 0.02
					0.02
Total	1323.76	100.01	Nezumia milleri	0.20 10	0.02
Total	1323.76		Nezumia milleri Total		100.00
DATE:27/10/92 GEAR	TYPE: BT No:1	PROJECT STATION:1364 POSITION:Lat S 2711		0.20 10	
DATE:27/10/92 GEAR Start stop duratic TIME :03:37:00 04:07:00 30 (	t TYPE: BT No:1 !	PROJECT STATION:1364 POSITION:Lat S 2711 Long E 1405 : 3		0.20 10 1133.98	100.00
DATE:27/10/92 GEAR  Start stop duratic  TIME :03:37:00 04:07:00 30 (  LOG :2127.70 2129.00 1.57  FDEPTH: 496 495  BDEPTH: 496 495	R TYPE: BT No:1 !  min) Purpose code Area code GearCond.code Validity cod	PROJECT STATION:1364 POSITION:Lat S 2711 Long E 1405 : 3 : 1 e:	Total  DATE:27/10/92 GEAT  start stop duratic	0.20 10 1133.98	100.00  ROJECT STATION:1368 TION:Lat S 2650
DATE:27/10/92 GEAR  Start stop duratic  TIME :03:37:00 04:07:00 30 ( LOG :2127.70 2129.00 1.57  FDEPTH: 496 495  BDEPTH: 496 495  Towing dir: 345 Wire of	R TYPE: BT No:1 !  nmin) Purpose code Area code GearCond.code Validity cod out:1350 m Speed:	PROJECT STATION:1364 POSITION:Lat S 2711 Long E 1405 : 1 : 1 :: :: :: :: :: :: :: :: :: :: :: :: ::	Total  DATE: 27/10/92 GEAR	0.20 10  1133.98  R TYPE: BT No:1 POSI on (min) Purpose code: 3 Area code : 1	ROJECT STATION:1368 TION:Lat S 2650 Long E 1418
DATE:27/10/92 SEAR  start stop duratic  TIME :03:37:00 04:07:00 30 ( LOG :2127.70 2129.00 1.57  FDEPTH: 496 495  BDEPTH: 496 495  Towing dir: 345 Wire of  Sorted: 79 Kg Total cat	R TYPE: BT No:1 10mmin) Purpose code Area code GearCond.code Validity code cout:1350 m Speed: 184.83 C/2	PROJECT STATION:1364 POSITION:Lat S 2711 Long E 1405 : 3 : 1 :: e: :: : :	Total  DATE: 27/10/92 GEAR	0.20 10  1133.98  R TYPE: BT No:1 POSI on Area code: 1 GearCond.code: Validity code: Validity code:	100.00  ROJECT STATION:1368 TION:Lat S 2650 Long E 1418
DATE:27/10/92 GEAR  start stop duratic  TIME :03:37:00 04:07:00 30 ( LOG :2127.70 2129.00 1.57  FDEPTH: 496 495  BDEPTH: 496 495  Towing dir: 345 Wire o  Sorted: 79 Kg Total cat	R TYPE: BT No:1 150mmin) Purpose code Area code GearCond.code Validity code Code: 184.83 C. CATCH/HOUR Weight number	PROJECT STATION:1364 POSITION:Lat S 2711 Long E 1405 : 1 e: e: e: e: e: d:	DATE:27/10/92 GEAR Start stop duratic TIME :12:18:00 12:48:00 30 LOG :2169.40 2170.80 3.58 FDEPTH: 351 351 BDEPTH: 351 351 Towing dir: 340 Wire of	0.20 10  1133.98  R TYPE: BT No:1 POSI on (min) Purpose code: 3 Area code : 1 GearCond.code: Validity code: out:1050 m Speed: 31 k	100.00  ROJECT STATION:1368 TION:Lat S 2650 Long E 1418
DATE:27/10/92 GEAR start stop duratic TIME:03:37:00 04:07:00 30 ( 10G:2127.70 2129.00 1.57 FDEPTH: 496 495 BDEPTH: 496 495 Towing dir: 345 Wire of Sorted: 79 Kg Total cat SPECIES Merluccius paradoxus, female Merluccius paradoxus, male Deania calcea	R TYPE: BT No:1 15mmin) Purpose code Area code GearCond.code Validity code Code: 184.83 C. CATCH/HOUR Weight numbe. 242.60 351.40	PROJECT STATION:1364 POSITION:Lat S 2711 Long E 1405 : 1 :: 1 :: 1 :: 1 :: 1 :: 1 :: 1 :: 1	Total  DATE: 27/10/92 GEAR	0.20 10  1133.98  R TYPE: BT No:1 POSI on (min) Purpose code: 3 Area code : 1 GearCond.code: Validity code: out:1050 m Speed: 31 k	100.00  ROJECT STATION:1368 TION:Lat S 2650 Long E 1418
DATE:27/10/92 GEAR  start stop duratic TIME:03:37:00 04:07:00 30 ( COS:2127.70 2129.00 1.57 FDEPTH: 496 495 BDEPTH: 496 495 Towing dir: 345 Wire of Sorted: 79 Kg Total cat SPECIES  Merluccius paradoxus, female Merluccius paradoxus, male Deania calcea Coelorinchus fasciatus Trachyrinus scabrus	R TYPE: BT No:1 1: In	PROJECT STATION:1364 POSITION:Lat \$ 2711 Long E 1405 : 3 : 1 e:	DATE:27/10/92 GEAR Start stop duratic TIME :12:18:00 12:48:00 30 LOG :2169.40 2170.80 3.58 FDEPTH: 351 351 BDEPTH: 351 351 Towing dir: 340 Wire of	0.20 10  1133.98  R TYPE: BT No:1 POSI omin) Purpose code: 3 Area code: 1 GearCond.code: Validity code: validity code: 5 Dut:1050 m Speed: 31 k ch: 510.18 CATCH	100.00  ROJECT STATION:1368 TION:Lat S 2650 Long E 1418
DATE:27/10/92 GEAR  start stop duratic TIME:03:37:00 04:07:00 30 ( COS:2127.70 2129.00 1.57 FDEPTH: 496 495 BDEPTH: 496 495 Towing dir: 345 Wire of Sorted: 79 Kg Total cat SPECIES Merluccius paradoxus, female Merluccius paradoxus, male Deania calcea Coelorinchus fasciatus Trachyrinus scabrus Selachophidium guentheri Etmopterus lucifer	R TYPE: BT No:1 1:01  Immin) Purpose code Area code GearCond.cod: Validity code out:1350 m Speed: CATCH/HOUR weight number 242.60 31.40 17.96 14.56 3.11.24 3.7.88 1.7.10	PROJECT STATION:1364 POSITION:Lat \$ 2711 Long E 1405 : 3 : 1 e:	DATE:27/10/92 GEAR Start stop duratic TIME :12:18:00 12:48:00 30 LOG :2169.40 2170.80 1.58 FDEPTH: 351 351 BDEPTH: 351 351 Towing dir: 340 Wire of Sorted: 146 Kg Total cat  SPECIES Merluccius paradoxus, female Merluccius capensis, female	0.20 10  1133.98  R TYPE: BT No:1 POSI on (min) Purpose code: 3 Area code : 1 GearCond.code: Validity code: out:1050 m Speed: 31 k ch: 510.18 CATCH  CATCH/HOUR & weight numbers 579.60 1148 181.30 112	T100.00  ROJECT STATION:1368 TION:Lat S 2650 Long E 1418  n*10 /HOUR: 1020.36
DATE:27/10/92 GEAR  start stop duratic TIME:03:37:00 04:07:00 30 ( COSTO 04:07:00 1.57 FDEPTH: 496 495 ( COSTO 04:07 FDEPTH: 496 495 ( COSTO 05:07 FDEPTH: 345 Wire of COSTO 05:07 FDEPTH: 345 Wire of COSTO 05:07 FDEPTH: 496 495 ( COSTO 05:07 FDEPTH: 345 Wire of COSTO 05:	R TYPE: BT No:1 1:20 mmin) Purpose code Area code GearCond.code Validity code CATCH/HOUR Weight number 242.60 351.40 17.96 14.56 3 11.24 3:7.88 1:7.10 6.82 6.30	PROJECT STATION:1364 POSITION:Lat \$ 2711 Long E 1405 : 3 : 1 e:	DATE:27/10/92 GEAR Start stop duratic TIME :12:18:00 12:48:00 30 LOG :2169.40 2170.80 1.58 FDEPTH: 351 351 BDEPTH: 351 351 Towing dir: 340 Wire of Sorted: 146 Kg Total cat  SPECIES Merluccius paradoxus, female Merluccius capensis, female Merluccius paradoxus, male Krill	0.20 10  1133.98  R TYPE: BT No:1 POSI on (min) Purpose code: 3 Area code : 1 GearCond.code: Validity code: out:1050 m Speed: 31 k :ch: 510.18 CATCH  CATCH/HOUR weight numbers 579.60 1148 181.30 112 100.10 274 67.20	T100.00  ROJECT STATION:1368 TICN:Lat \$ 2650 Long E 1418  n*10  /HOUR: 1020.36  OF TOT. C SAMP.NO. 56.80 147 17.77 145 9.81 146 6.59
DATE:27/10/92 GEAR  start stop duratic TIME:03:37:00 04:07:00 30 ( LOG:2127.70 2129.00 1.57 FDEPTH: 496 495 BDEPTH: 496 495 Towing dir: 345 Wire o Sorted: 79 Kg Total cat SPECIES  Merluccius paradoxus, female Merluccius paradoxus, male Deania calcea Coelorinchus fasciatus Trachyrinus scabrus Selachophidium guentheri Etmopterus lucifer Malacocephalus laevis Todarodes sagittatus Deepwater fish mixture Notacanthus sexspinis	R TYPE: BT No:1 1:0nmin) Purpose code Area code GearCond.cod Validity code Code: 184.83 C. CATCH/HOUR Weight number 242.60 S. 1.40 17.96 14.56 3. 11.24 3. 7.18 17.10 6.82 6.30 1.40 0.70 1.40	PROJECT STATION:1364 POSITION:Lat \$ 2711 Long E 1405 : 3	DATE:27/10/92 GEAR START Stop duratic TIME:12:18:00 12:48:00 30 LOG:2169.40 2170.80 1.58 FDEPTH: 351 351 Towing dir: 340 Wire of Sorted: 146 Kg Total cat  SPECIES  Merluccius paradoxus, female Merluccius capensis, female Krill Merluccius capensis, male Helicolenus dactylopterus	0.20 10  1133.98  R TYPE: BT No:1 POSI min) Purpose code: 1 GearCond.code: Validity code: out:1050 m Speed: 31 k ch: 510.18 CATCH  CATCH/HOUR weight numbers 579.60 1148 181.30 112 100.10 274 67.20 26.68 22 19.96 302	T100.00  ROJECT STATION:1368 TION:Lat \$ 2650 Long E 1418  n*10  /HOUR: 1020.36  OF TOT. C SAMP.NO.  56.80 147 17.77 145 9.81 146 6.59 2.61 144 1.96
DATE:27/10/92 GEAR  start stop duratic TIME:03:37:00 04:07:00 30 ( GEAR) LOG:2127.70 2129.00 1.57 FDEPTH: 496 495 BDEPTH: 496 495 Towing dir: 345 Wire of Sorted: 79 Kg Total cat  SPECIES  Merluccius paradoxus, female Merluccius paradoxus, male Deania calcea Coelorinchus fasciatus Trachyrinus scabrus Selachophidium quentheri Etmopterus lucifer Malacocephalus laevis Todardes sagittatus Deepwater fish mixture Notacanthus sexspinis Hoplostethus mediterraneus S H R I M P S Epigonus pandionis	R TYPE: BT No:1 10min) Purpose code Area code GearCond.cod Validity code wit:1350 m Speed: 1.0ch: 184.83 C. CATCH/HOUR Weight number 242.60 Si.40 17.96 14.56 3.11.24 3.7.88 11.7.10 6.82 6.30 1.40 0.70 0.52 0.46	PROJECT STATION:1364 POSITION:Lat S 2711 Long E 1405 : 3 : 1 e:	DATE:27/10/92 GEAR  start stop duratic TIME :12:18:00 12:48:00 30 LOG :2169.40 2170.80 1.58 FDEPTH: 351 351 BDEPTH: 351 351 Towing dir: 340 Wire of Sorted: 146 Kg Total cat  SPECIES  Merluccius paradoxus, female Merluccius capensis, female Merluccius paradoxus, male Krill Merluccius dactylopterus Todarodes sagittatus MYCOPHIDAE	0.20 10  1133.98  R TYPE: BT No:1 POSI (min) Purpose code: 3 Area code : 1 GearCond.code: Validity code: out:1050 m Speed: 31 k ch: 510.18 CATCH  CATCH/HOUR weight numbers 579.60 1148 181.30 112 100.10 274 67.20 26.68 22 19.96 302 17.08 22	T100.00  ROJECT STATION:1368 TION:Lat S 2650 Long E 1418  n*10  /HOUR: 1020.36  OF TOT. C SAMP.NO.  56.80 147 17.77 145 9.81 146 6.59 2.61 144 1.96 1.67 1.23
DATE:27/10/92 GEAR  start stop duratic  TIME:03:37:00 04:07:00 30 ( LOG:2127.70 2129.00 1.57  FDEPTH: 496 495  BDEPTH: 496 495  Towing dir: 345 Wire of  Sorted: 79 Kg Total cat  SPECIES  Merluccius paradoxus, female Merluccius paradoxus, male Deania calcea Coelorinchus fasciatus Trachyrinus scabrus Selachophidium guentheri Etmopterus lucifer Malacocephalus laevis Todarodes sagitatus Deepwater fish mixture Notacanthus sexspints Hoplostethus mediterraneus S H R I M P S	R TYPE: BT No:1 ::  In   Purpose code	PROJECT STATION:1364 POSITION:Lat S 2711 Long E 1405 : 3 : 1 e:	DATE:27/10/92 GEAR  start stop duratic TIME :12:18:00 12:48:00 30 LOG :2169.40 2170.80 1.58 FDEPTH: 351 351 Towing dir: 340 Wire of Sorted: 146 Kg Total cat  SPECIES  Merluccius paradoxus, female Merluccius capensis, female Merluccius paradoxus, male Krill Merluccius paradoxus, male Krill Merluccius garadoxus, male Krill Merluccius garadoxus, male Krill Merluccius sagensis, male Coelorinchus fasciatus SHRIMPS CRABS	0.20 10  1133.98  R TYPE: BT No:1 POSI on (min) Purpose code: 3 Area code: 1 GearCond.code: validity code: out:1050 m Speed: 31 k ch: 510.18 CATCH  CATCH/HOUR weight numbers 579.60 1148 181.30 112 100.10 274 67.20 26.68 22 19.96 302 17.08 22	T100.00  ROJECT STATION:1368 TION:Lat S 2650 Long E 1418  A*10  A*
DATE:27/10/92 GEAR  start stop duratic  TIME :03:37:00 04:07:00 30 ( LOG :2127.70 2129.00 1.57  FDEPTH: 496 495  BDEPTH: 496 495  Towing dir: 345 Wire of  Sorted: 79 Kg Total cat  SPECIES  Merluccius paradoxus, female  Merluccius paradoxus, male  Deania calcea  Coelorinchus fasciatus  Trachyrinus scabrus  Selachophidium guentheri  Etmopterus lucifer  Malacocephalus laevis  Todarodes sagittatus  Deepwater fish mixture  Notacanthus sexspinis  Hoplostethus mediterraneus  S H R I M P S  Epigonus pandionis  Maulisia microlepis	R TYPE: BT No:1 10min) Purpose code Area code GearCond.cod Validity code State of the Cartes of the	PROJECT STATION:1364 POSITION:Lat S 2711 Long E 1405 : 3 : 1 e:	DATE:27/10/92 GEAR  start stop duratic TIME :12:18:00 12:48:00 30 LOG :2169.40 2170.80 1.58 FDEPTH: 351 351 Towing dir: 340 Wire of Sorted: 146 Kg Total cat  SPECIES  Merluccius paradoxus, female Merluccius capensis, female Merluccius paradoxus, male Krill Merluccius capensis, male Helicolenus dactylopterus Todarodes sagittatus MYCNOPHIDAE Coelorinchus fasciatus S H R I M P S C R A B S Nezumia milleri	0.20 10  1133.98  R TYPE: BT No:1 POSI on Area code: 3 Area code: 1 GearCond.code: Validity code: out:1050 m Speed: 31 k ch: 510.18 CATCH  CATCH/HOUR weight numbers 579.60 1148 181.30 112 100.10 274 67.20 26.68 22 19.96 302 17.08 22 12.60 8.06 120 4.20 1.82 42 1.76 28	T100.00  ROJECT STATION:1368 TION:Lat S 2650 Long E 1418  n*10  /HOUR: 1020.36  OF TOT. C SAMP.NO.  56.80 147 17.77 145 9.81 146 6.59 2.61 144 1.96 1.67 1.23 0.79 0.41 0.18 0.17
DATE:27/10/92 GEAR  start stop duratic TIME:03:37:00 04:07:00 30 ( COS:2127.70 2129.00 1.57 FDEPTH: 496 495 BDEPTH: 496 495 Towing dir: 345 Wire of Sorted: 79 Kg Total cat  SPECIES  Merluccius paradoxus, female Merluccius paradoxus, male Deania calcea Coelorinchus fasciatus Trachyrinus scabrus Selachophidium guentheri Etmopterus lucifer Malacocephalus laevis Todarodes sagittatus Deepwater fish mixture Notacanthus sexspints Hoplostethus mediterraneus S H R I M P S Epigonus pandionis Maulisia microlepis C R A B S Total	R TYPE: BT No:1 In   Purpose code Area code GearCond.cod Validity code   CATCH/HOUR   CATCH/HOUR	PROJECT STATION:1364 POSITION:Lat \$ 2711 Long E 1405 : 3 : 1 e:	DATE:27/10/92 GEAR  start stop duratic TIME :12:18:00 12:48:00 30 LOG :2169.40 2170.80 1.58 FDEPTH: 351 351 Towing dir: 340 Wire of Sorted: 146 Kg Total cat  SPECIES  Merluccius paradoxus, female Merluccius capensis, female Merluccius paradoxus, male Krill Merluccius paradoxus, male Krill Merluccius garadoxus, male Krill Merluccius garadoxus, male Krill Merluccius sagensis, male Coelorinchus fasciatus SHRIMPS CRABS	0.20 10  1133.98  R TYPE: BT No:1 POSI on (min) Purpose code: 3 Area code : 1 GearCond.code: Validity code: out:1050 m Speed: 31 k ch: 510.18 CATCH  CATCH/HOUR weight numbers 579.60 1148 181.30 112 100.10 274 67.20 26.68 22 19.96 302 17.08 22 12.60 8.06 120 4.20 1.82 42	T100.00  ROJECT STATION:1368 TION:Lat S 2650 Long E 1418  n*10  /HOUR: 1020.36  OF TOT. C SAMP.NO.  56.80 147 17.77 145 9.81 146 6.59 2.61 144 1.96 1.67 1.23 0.79 0.41 0.18
DATE:27/10/92  start stop duratic TIME:03:37:00 04:07:00 30 ( LOG:2127.70 2129.00 1.57  FDEPTH: 496 495  BDEPTH: 496 495  Towing dir: 345 Wire of the start of th	R TYPE: BT No:1 1: In   Purpose code	PROJECT STATION:1364 POSITION:Lat S 2711 Long E 1405 : 3 : 1 e:	DATE:27/10/92 GEAR  start stop duratic TIME :12:18:00 12:48:00 30 LOG :2169.40 2170.80 1.58 FDEPTH: 351 351 Towing dir: 340 Wire of Sorted: 146 Kg Total cat  SPECIES  Merluccius paradoxus, female Merluccius capensis, female Merluccius paradoxus, male Krill Merluccius capensis, male Helicolenus dactylopterus Todarodes sagittatus MYCNOPHIDAE Coelorinchus fasciatus S H R I M P S C R A B S Nezumia milleri	0.20 10  1133.98  R TYPE: BT No:1 POSI on Area code: 3 Area code: 1 GearCond.code: Validity code: out:1050 m Speed: 31 k ch: 510.18 CATCH  CATCH/HOUR weight numbers 579.60 1148 181.30 112 100.10 274 67.20 26.68 22 19.96 302 17.08 22 12.60 8.06 120 4.20 1.82 42 1.76 28	T100.00  ROJECT STATION:1368 TION:Lat S 2650 Long E 1418  n*10  /HOUR: 1020.36  OF TOT. C SAMP.NO.  56.80 147 17.77 145 9.81 146 6.59 2.61 144 1.96 1.67 1.23 0.79 0.41 0.18 0.17
DATE:27/10/92  start stop duratic TIME:03:37:00 04:07:00 30 ( LOG:2127.70 2129.00 1.57  FDEPTH: 496 495  BDEPTH: 496 495  Towing dir: 345 Wire of the stop duratic SPECIES  Merluccius paradoxus, female Merluccius paradoxus, male Deania calcea Coelorinchus fasciatus Trachyrinus scabrus Selachophidium quentheri Etmopterus lucifer Malacocephalus laevis Todarodes sagittatus Deepwater fish mixture Notacanthus sexspinis Hoplostethus mediterraneus S H R I M P S Epigonus pandionis Maulisia microlepis C R A B S  Total  DATE:27/10/92  start stop duratio TIME:05:19:00 05:49:00 30 ( LOG:2134.20 2135.60 1.50 FDEETH: 602 595	R TYPE: BT No:1    In   Purpose code   Area code   GearCond.code   Carcond.code	PROJECT STATION:1364 POSITION:Lat S 2711 Long E 1405 : 1 :: 1 :: : :: : :: : :: : :: : : : :	DATE:27/10/92 GEAR  start stop duratic TIME:12:18:00 12:48:00 30 LOG:2169.40 2170.80 1.58 FDEPTH: 351 351 Towing dir: 340 Wire of Sorted: 146 Kg Total cat  SPECIES  Merluccius paradoxus, female Merluccius capensis, female Merluccius paradoxus, male Krill Merluccius paradoxus, male Helicolenus dactylopterus Todarodes sagittatus MYCOPHIDAE Coelorinchus fasciatus S H R I M P S C R A B S Nezumia milleri Total	0.20 10  1133.98  R TYPE: BT No:1 POSI On Area code: 3 Area code: 1 GearCond.code: validity code: out:1050 m Speed: 31 k ch: 510.18 CATCH  CATCH/HOUR weight numbers 579.60 1148 181.30 112 100.10 274 67.20 26.68 22 19.96 302 17.08 22	T100.00  ROJECT STATION:1368 TION:Lat S 2650 Long E 1418  n*10  /HOUR: 1020.36  OF TOT. C SAMP.NO.  56.80 147 17.77 145 9.81 146 6.59 2.61 144 1.96 1.67 1.23 0.79 0.41 0.18 0.17
DATE:27/10/92 GEAR  Start stop duratic TIME:03:37:00 04:07:00 30 ( LOG:2127.70 2129.00 1.57 FDEPTH: 496 495 BDEPTH: 496 495 Towing dir: 345 Wire of Sorted: 79 Kg Total cat  SPECIES  Merluccius paradoxus, female Merluccius paradoxus, male Deania calcea Coelorinchus fasciatus Trachyrinus scabrus Selachophidium guentheri Etmopterus lucifer Malacocephalus laevis Todarodes sagitatus Deepwater fish mixture Notacanthus sexspinis Hoplostethus mediterraneus S H R I M P S Epigonus pandionis Maulisia microlepis C R A B S  Total  DATE:27/10/92 GEAR Start stop duratio TIME:05:19:00 05:49:00 30 ( LOG:2134.20 2135.60 1.50	R TYPE: BT No:1	PROJECT STATION:1364 POSITION:Lat S 2711 Long E 1405 : 3 : 1 :: : :: : :: : : : : : : : : : : :	DATE:27/10/92 GEAR  start stop duratic TIME:12:18:00 12:48:00 30 LOG:21:69.40 2170.80 1.58 FDEPTH: 351 351 BDEPTH: 351 351 Towing dir: 340 Wire of Sorted: 146 Kg Total cat  SPECIES  Merluccius paradoxus, female Merluccius capensis, female Merluccius capensis, female Krill Merluccius capensis, male Helicolenus dactylopterus Todarodes sagitatus MYCTOPHIDAE Coelorinchus fasciatus SHRIMPS CRABS Nezumia milleri Total  DATE:27/10/92 GEAR	0.20 10  1133.98  R TYPE: BT No:1 POSI  (min) Purpose code: 3 Area code : 1 GearCond.code: validity code: but:1050 m Speed: 31 k ch: 510.18 CATCH  CATCH/HOUR weight numbers 579.60 1148 181.30 112 100.10 274 67.20 26.68 22 19.96 302 17.08 22 17.08 22 12.60 8.06 120 4.20 1.82 42 1.76 28  1020.36	T100.00  ROJECT STATION:1368 TION:Lat S 2650 Long E 1418  n*10  /HOUR: 1020.36  OF TOT. C SAMP.NO.  56.80 147 17.77 145 9.81 146 6.59 2.61 144 1.96 1.67 1.23 0.79 0.41 0.18 0.17
DATE:27/10/92 GEAR  TIME:03:37:00 04:07:00 30 ( LOG:2127.70 2129.00 1.57  FDEPTH: 496 495  BDEPTH: 496 495  Towing dir: 345 Wire of  Sorted: 79 Kg Total cat  SPECIES  Merluccius paradoxus, female  Merluccius paradoxus, male  Deania calcea  Coelorinchus fasciatus  Trachyrinus scabrus  Selachophidium guentheri  Etmopterus lucifer  Malacocephalus laevis  Todarodes sagitatus  Deepwater fish mixture  Notacanthus sexspinis  Hoplostethus mediterraneus  S H R I M P S  Epigonus pandionis  Maulisia microlepis  C R A B S  Total  DATE:27/10/92 GEAR  Start stop duratio  TIME:05:19:00 05:49:00 30 ( LOG:2134.20 2135.60 1.50  FDEETH: 602 595  BDEPTH: 602 595	R TYPE: BT No:1 1:0nmin) Purpose code Area code GearCond.cod Validity code Code Code Code Code Code Code Code C	PROJECT STATION:1364 POSITION:Lat S 2711 Long E 1405 : 3 : 1 :: : :: : :: : : : : : : : : : : :	DATE:27/10/92 GEAR  start stop duratic TIME:12:18:00 12:48:00 30 LOG:2169.40 2170.80 1.58 FDEPTH: 351 351 Towing dir: 340 Wire of Sorted: 146 Kg Total cat  SPECIES  Merluccius paradoxus, female Merluccius capensis, female Merluccius paradoxus, male Krill Merluccius paradoxus, male Relicolenus dactylopterus Todarodes sagittatus MYCTOPHIDAE Coelorinchus fasciatus S H R I M P S C R A B S Nezumia milleri  Total  DATE:27/10/92 GEAR start stop duratic TIME:15:03:00 15:33:00 30 LOG: 2189.40 2190.80 1.64	0.20 10  1133.98  R TYPE: BT No:1 POSI On Area code : 1 GearCond.code: Validity code: Out:1050 m Speed: 31 k ch: 510.18 CATCH  CATCH/HOUR weight numbers 579.60 1148 181.30 112 100.10 274 67.20 26.68 22 19.96 302 17.08 22 12.60 8.06 120 4.20 1.82 42 1.76 28  1020.36	T100.00  ROJECT STATION:1368 TION:Lat S 2650 Long E 1418  n*10  /HOUR: 1020.36  OF TOT. C SAMP.NO.  56.80 147 17.77 145 9.81 146 6.59 2.61 144 1.96 1.67 1.23 0.79 0.41 0.18 0.17  99.99  ROJECT STATION:1369 PICN:Lat S 2647
DATE:27/10/92 GEAR  start stop duratic TIME:03:37:00 04:07:00 30 ( LOG:2127.70 2129.00 1.57 FDEPTH: 496 495 BDEPTH: 496 495 Towing dir: 345 Wire of  Sorted: 79 Kg Total cat  SPECIES  Merluccius paradoxus, female Merluccius paradoxus, male Deania calcea Coelorinchus fasciatus Trachyrinus scabrus Selachophidium guentheri Etmopterus lucifer Malacocephalus laevis Todarodes sagittatus Deepwater fish mixture Notacanthus sexspinis Hoplostethus mediterraneus S H R I M P S Epigonus pandionis Maulisia microlepis C R A B S  Total  DATE:27/10/92 GEAR Multisia microlepis C R A B S  Total  DATE:27/10/92 GEAR TIME:05:19:00 05:49:00 30 ( LOG:2134.20 2135.60 1.50 FDEPTH: 602 595 Towing dir: 345 Wire o  Sorted: 114 Kg Total cat	R TYPE: BT No:1 1:0nmin) Purpose code Area code GearCond.cod Validity code Code Code Code Code Code Code Code C	PROJECT STATION:1364 POSITION:Lat \$ 2711 Long E 1405 : 3 : 1 e:	DATE:27/10/92 GEAR  start stop duratic TIME:12:18:00 12:48:00 30 LOG:2169.40 2170.80 1.58 FDEPTH: 351 351 BDEPTH: 351 351 Towing dir: 340 Wire of Sorted: 146 Kg Total cat  SPECIES  Merluccius paradoxus, female Merluccius capensis, female Merluccius paradoxus, male Krill Merluccius paradoxus, male Helicolenus dactylopterus Todarodes sagittatus MYCTOPHIDAE Coelorinchus fasciatus S H R I M P S C R A B S Nezumia milleri  Total  DATE:27/10/92 GEAR start stop duratic Time:15:03:00 15:33:00 30 ( LOG:2189.40 2190.80 1.64 FDEPTH: 280 280 BDEPTH: 280 280	0.20 10  1133.98  R TYPE: BT No:1 POSI on Area code : 1 GearCond.code: Validity code: out:1050 m Speed: 31 k ch: 510.18 CATCH  CATCH/HOUR weight numbers 579.60 1148 181.30 112 100.10 274 67.20 26.68 22 19.96 302 17.08 22 12.60 8.06 120 4.20 1.82 42 1.76 28  1020.36	T100.00  ROJECT STATION:1368 TION:Lat S 2650 Long E 1418  n*10  /HOUR: 1020.36  OF TOT. C SAMP.NO.  56.80 147 17.77 145 9.81 146 6.59 2.61 144 1.96 1.67 1.23 0.79 0.41 0.18 0.17  99.99  ROJECT STATION:1369 FION:Lat S 2647 Long E 1433
DATE:27/10/92 GEAR  start stop duratic  TIME :03:37:00 04:07:00 30 ( LOG :2127.70 2129.00 1.57  FDEPTH: 496 495  BDEPTH: 496 495  Towing dir: 345 Wire of  Sorted: 79 Kg Total cat  SPECIES  Merluccius paradoxus, female Merluccius paradoxus, male Deania calcea Coelorinchus fasciatus Trachyrinus scabrus Selachophidium guentheri Etmopterus lucifer Malacocephalus laevis Todarodes sagittatus Deepwater fish mixture Notacanthus sexspinis Hoplostethus mediterraneus S H R I M P S Epigonus pandionis Maulisia microlepis C R A B S  Total  DATE:27/10/92 GEAR Mulisia microlepis C R A B S  Total  DATE:27/10/92 GEAR TIME :05:19:00 05:49:00 30 ( LOG :2134.20 2135.60 1.50  FDEPTH: 602 595  Towing dir: 345 Wire o  Sorted: 114 Kg Total cat  SPECIES  Merluccius paradoxus, female Coelorinchus braueri	R TYPE: BT No:1   10   10   10   10   10   10   10	PROJECT STATION:1364 POSITION:Lat S 2711 Long E 1405 : 3 : 1 e:	DATE:27/10/92 GEAR  start stop duratic TIME:12:18:00 12:48:00 30 LOG:2169.40 2170.80 1.58 FDEPTH: 351 351 BDEPTH: 351 351 Towing dir: 340 Wire of Sorted: 146 Kg Total cat  SPECIES  Merluccius paradoxus, female Merluccius capensis, female Merluccius paradoxus, male Krill Merluccius paradoxus, male Helicolenus dactylopterus Todarodes sagittatus MYCTOPHIDAE Coelorinchus fasciatus S H R I M P S C R A B S Nezumia milleri  Total  DATE:27/10/92 GEAR start stop duratic Time:15:03:00 15:33:00 30 ( LOG:2189.40 2190.80 1.64 FDEPTH: 280 280 BDEPTH: 280 280	0.20 10  1133.98  R TYPE: BT No:1 POSI On Area code : 1 GearCond.code: Validity code: out:1050 m Speed: 31 k ch: 510.18 CATCH  CATCH/HOUR weight numbers 579.60 1148 181.30 112 100.10 274 67.20 26.68 22 19.96 302 17.08 2	T100.00  ROJECT STATION:1368 TION:Lat S 2650 Long E 1418  n*10  /HOUR: 1020.36  OF TOT. C SAMP.NO.  56.80 147 17.77 145 9.81 146 6.59 2.61 144 1.96 1.67 1.23 0.79 0.41 0.18 0.17  99.99  ROJECT STATION:1369 FICN:Lat S 2647 Long E 1433
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DATE:27/10/92 GEAR  start stop duratic  TIME :03:37:00 04:07:00 30 ( LOG :2127.70 2129.00 1.57  FDEPTH: 496 495  BDEPTH: 496 495  Towing dir: 345 Wire of  Sorted: 79 Kg Total cat  SPECIES  Merluccius paradoxus, female Merluccius paradoxus, male Deania calcea Coelorinchus fasciatus Trachyrinus scabrus Selachophidium guentheri Etmopterus lucifer Malacocephalus laevis Todarodes sagittatus Deepwater fish mixture Notacanthus sexspinis Hoplostethus mediterraneus S H R I M P S Epigonus pandionis Maulisia microlepis C R A B S  Total  DATE:27/10/92 GEAR Mulisia microlepis C R A B S  Total  DATE:27/10/92 GEAR Start stop duratio TIME :05:19:00 05:49:00 30 ( LOG :2134.20 2135.60 1.50 ( DOG :2134.20 2135.60 1.50 ( SORTECTION OF START S	R TYPE: BT No:1	PROJECT STATION:1364 POSITION:Lat S 2711 Long E 1405 : 1 e:	DATE:27/10/92 GEAR  start stop duratic TIME:12:18:00 12:48:00 30 LOG:2169.40 2170.80 1.58 FDEPTH: 351 351 BDEPTH: 351 351 Towing dir: 340 Wire of Sorted: 146 Kg Total cat  SPECIES  Merluccius paradoxus, female Merluccius capensis, female Merluccius capensis, male Helicolenus dactylopterus Todarodes sagitatus MYCTOPHIDAE Coelorinchus fasciatus SHRIMPS CRABS Nezumia milleri Total  DATE:27/10/92 GEAR start stop duratic TIME:15:03:00 15:33:00 30 (LOG:2189.40 2190.80 1.64 FDEPTH: 280 280 TOWING dir: 340 Wire of Sorted: 216 Kg Total cat	0.20 10  1133.98  R TYPE: BT No:1 POSI (min) Purpose code: 3 Area code : 1 GearCond.code: validity code: out:1050 m Speed: 31 k ch: 510.18 CATCH  CATCH/HOUR weight numbers 579.60 1148 181.30 112 100.10 274 67.20 26.68 22 19.96 302 17.08 22 12.60 8.06 120 4.20 1.82 42 1.76 28  1020.36  R TYPE: BT No:1 POSI: omin) Purpose code: 3 Area code : 1 GearCond.code: validity code: out: 900 m Speed: 31 k ch: 216.40 CATCH/	T100.00  ROJECT STATION:1368 TION:Lat S 2650 Long E 1418  n*10  /HOUR: 1020.36  OF TOT. C SAMP.NO.  56.80 147 17.77 145 9.81 146 6.59 2.61 144 1.96 1.67 1.23 0.79 0.41 0.18 0.17  99.99  ROJECT STATION:1369 FION:Lat S 2647 Long E 1433  n*10  /HOUR: 432.80  OF TOT. C SAMP.NO.
DATE:27/10/92 GEAR  TIME:03:37:00 04:07:00 30 ( LOG:2127.70 2129.00 1.57  FDEPTH: 496 495  BDEPTH: 496 495  Towing dir: 345 Wire of  Sorted: 79 Kg Total cat  SPECIES  Merluccius paradoxus, female  Merluccius paradoxus, male  Deania calcea  Coelorinchus fasciatus  Trachyrinus scabrus  Selachophidium guentheri  Etmopterus lucifer  Malacocephalus laevis  Todarodes sagitatus  Deepwater fish mixture  Notacanthus sexspinis  Hoplostethus mediterraneus  S H R I M P S  Epigonus pandionis  Maulisia microlepis  C R A B S   Total  DATE:27/10/92 GEAR  Start stop duratio  TIME:05:19:00 05:49:00 30 ( LOG:2134.20 2135.60 1.50 FDEETH: 602 595 BDEPTH: 602 595 BDEPTH: 602 595 Towing dir: 345 Wire o  Sorted: 114 Kg Total cat  SPECIES  Merluccius paradoxus, female  Coelorinchus braueri  Deania calcea  Raja leopardus  Todarodes sagittatus  Nezumia milleri  Shrimps, small, non comm.  Coelorinchus matamua  Selachophidium guentheri	R TYPE: BT No:1	PROJECT STATION:1364 POSITION:Lat S 2711 Long E 1405 : 1 e:	DATE:27/10/92 GEAR  STATT Stop duratic TIME:12:18:00 12:48:00 30 LOG:2169.40 2170.80 1.58 FDEPTH: 351 351 Towing dir: 340 Wire of Sorted: 146 Kg Total cat  SPECIES  Merluccius paradoxus, female Merluccius capensis, female Merluccius capensis, male Helicolenus dactylopterus Todarodes sagittatus MYCTOPHIDAE Coelorinchus fasciatus S H R I M P S C R A B S Nezumia milleri Total  DATE:27/10/92 GEAR Start stop duratic TIME:15:03:00 15:33:00 30 ( LOG:2189.40 2190.80 1.64 FDEPTH: 280 280 DDEPTH: 280 280 Towing dir: 340 Wire of Sorted: 216 Kg Total cat  SPECIES  Merluccius capensis, female Genypterus capensis, female Genypterus capensis, female Genypterus capensis, female	0.20 10  1133.98  R TYPE: BT No:1 POSI Official Propose code: 3 Area code : 1 GearCond.code: validity code: out:1050 m Speed: 31 k ch: 510.18 CATCH  CATCH/HOUR weight numbers 579.60 1148 181.30 112 100.10 274 67.20 26.68 22 19.96 302 17.08 22 17.08 22 17.08 22 12.60 8.06 120 4.20 1.82 42 1.76 28  1020.36  R TYPE: BT No:1 POSI Official Propose code: 3 Area code : 1 GearCond.code: validity code:	T100.00  ROJECT STATION:1368 TION:Lat S 2650 Long E 1418  n*10  /HOUR: 1020.36  OF TOT. C SAMP.NO.  56.80 147 17.77 145 9.81 146 6.59 2.61 144 1.96 1.67 1.23 0.79 0.41 0.18 0.17  99.99  ROJECT STATION:1369 FION:Lat S 2647 Long E 1433  A*10  /HOUR: 432.80  OF TOT. C SAMP.NO.  44.32 149 30.91 152
DATE:27/10/92 GEAR  TIME :03:37:00 04:07:00 30 ( ING :2127.70 2129.00 1.57  FDEPTH: 496 495  BDEPTH: 496 495  Towing dir: 345 Wire of  Sorted: 79 Kg Total cat  SPECIES  Merluccius paradoxus, female  Merluccius paradoxus, male  Deania calcea  Coelorinchus fasciatus  Trachyrinus scabrus  Selachophidium guentheri  Etmopterus lucifer  Malacocephalus laevis  Todarodes sagitatus  Deepwater fish mixture  Notacanthus sexspinis  Hoplostethus mediterraneus  S H R I M P S  Epigonus pandionis  Maulisia microlepis  C R A B S   Total  DATE:27/10/92 GEAR  Start stop duratio  TIME :05:19:00 05:49:00 30 ( LOG :2134.20 2135.60 1.50 FDEPTH: 602 595 BDEPTH: 602 595 Towing dir: 345 Wire o  Sorted: 114 Kg Total cat  SPECIES  Merluccius paradoxus, female  Coelorinchus braueri  Deania calcea  Raja leopardus  Todarodes sagittatus  Nezumia milleri  Shrimps, small, non comm.  Coelorinchus matamua  Selachophidium quentheri  Etmopterus pusillus  Etmopterus pusilus  Etmopterus pusiles  Etmopterus pusil	R TYPE: BT No:1 1:0mmin) Purpose code Area code GearCond.code Validity code 1:0mmin) Revenue R	PROJECT STATION:1364 POSITION:Lat S 2711 Long E 1405 : 3 : 1 e: e	DATE:27/10/92 GEAR  start stop duratic TIME :12:18:00 12:48:00 30 LOG :2169.40 2170.80 1.58 FDEPTH: 351 351 Towing dir: 340 Wire of Sorted: 146 Kg Total cat  SPECIES  Merluccius paradoxus, female Merluccius capensis, female Merluccius paradoxus, male Merluccius paradoxus, male Merluccius capensis, male Merluccius capensis, male Merluccius capensis, male Merluccius capensis, male Helicolenus dactylopterus Todarodes sagittatus MYCNOPHIDAE Coelorinchus fasciatus S H R I M P S C R A B S Nezumia milleri  Total  DATE:27/10/92 GEAR TIME :15:03:00 15:33:00 30 LOG :2189.40 2190.80 1.66 FDEPTH: 280 280 BDEPTH: 280 280 Towing dir: 340 Wire of Sorted: 216 Kg Total cat  SPECIES  Merluccius capensis, female Genypterus capensis, male Trachurus capensis Merluccius capensis, male Trachurus capensis Merluccius capensis, female	0.20 10  1133.98  RTYPE: BT No:1 POSI Omin) Purpose code: 3 Area code : 1 GearCond.code: validity code: out:1050 m Speed: 31 k ch: 510.18 CATCH  CATCH/HOUR weight numbers 579.60 1148 181.30 112 100.10 274 67.20 26.68 22 19.96 302 17.08 22 12.60 8.06 120 4.20 1.82 42 1.76 28  1020.36  RTYPE: BT No:1 POSI Omin) Purpose code: 3 Area code cut: 900 m Speed: 31 k ch: 216.40 CATCH/HOUR weight numbers 191.80 160 133.80 112 64.00 64 18.60 64	T100.00  ROJECT STATION:1368 TION:Lat S 2650 Long E 1418  n*10  /HOUR: 1020.36  OF TOT. C SAMP.NO.  56.80 147 17.77 145 9.81 146 6.59 2.61 144 1.96 1.67 1.23 0.79 0.41 0.18 0.17  99.99  ROJECT STATION:1369 FION:Lat S 2647 Long E 1433  A*10  /HOUR: 432.80  OF TOT. C SAMP.NO.  44.32 149 30.91 152 14.79 148 4.30 153
DATE:27/10/92 GEAR  Start stop duratic TIME:03:37:00 04:07:00 30 ( LOG:2127.70 2129.00 1.57 FDEPTH: 496 495 BDEPTH: 496 495 Towing dir: 345 Wire of Sorted: 79 Kg Total cat  SPECIES  Merluccius paradoxus, female Merluccius paradoxus, male Deania calcea Coelorinchus fasciatus Trachyrinus scabrus Selachophidium guentheri Etmopterus lucifer Malacocephalus laevis Todarodes sagittatus Deepwater fish mixture Notacanthus sexspinis Hoplostethus mediterraneus S H R I M P S Epigonus pandionis Maulisia microlepis C R A B S  Total  DATE:27/10/92 GEAR Maulisia microlepis C R A B S  Total  DATE:27/10/92 GEAR Start stop duratio TIME:05:19:00 05:49:00 30 ( LOG:2134.20 2135.60 1.50 FDEFTH: 602 595 BDEPTH: 602 595 Towing dir: 345 Wire o  Sorted: 114 Kg Total cat  SPECIES  Merluccius paradoxus, female Coelorinchus braueri Deania calcea Raja leopardus Todarodes sagittatus Nezumia milleri Shrimps, small, non comm. Coelorinchus matamua Selachophidium quentheri Etmopterus pusillus Etmopterus lucifer Merluccius paradoxus, male Allocyttus verrucosus	R TYPE: BT No:1	PROJECT STATION:1364 POSITION:Lat S 2711 Long E 1405 : 1 :: : : : : : : : : : : : : : : : :	DATE:27/10/92 GEAR  START Stop duratic TIME:12:18:00 12:48:00 30 LOG:2169.40 2170.80 1.58 FDEPTH: 351 351 BDEPTH: 351 351 Towing dir: 340 Wire of Sorted: 146 Kg Total cat  SPECIES  Merluccius paradoxus, female Merluccius capensis, female Merluccius paradoxus, male Krill Merluccius capensis, male Helioclenus dactylopterus Todarodes sagittatus MYCNOPHIDAE Coelorinchus fasciatus S H R I M P S C R A B S Nezumia milleri Total  DATE:27/10/92 GEAR START Stop duratic TIME:15:03:00 15:33:00 30 LOG:2189.40 2199.80 1.64 FDEPTH: 280 280 TOWING dir: 340 Wire of Sorted: 216 Kg Total cat  SPECIES  Merluccius capensis, female Genypterus capensis Merluccius capensis, male Trachurus capensis Merluccius capensis, female Genypterus capensis Merluccius capensis, female Todarodes sagittatus MYCTOPHIDAE	0.20 10  1133.98  R TYPE: BT No:1 POSI min) Purpose code: 3 Area code : 1 GearCond.code: Validity code: out:1050 m Speed: 31 k ch: 510.18 CATCH  CATCH/HOUR weight numbers 579.60 1148 181.30 112 100.10 274 67.20 26.68 22 19.96 302 17.08 22 12.60 8.06 120 4.20 1.82 42 1.76 28  1020.36  TYPE: BT No:1 POSI: on min) Purpose code: 3 Area code : 1 GearCond.code: validity code:	T100.00  ROJECT STATION:1368  TION:Lat S 2650 Long E 1418  n*10  /HOUR: 1020.36  OF TOT. C SAMP.NO.  56.80 147 17.77 145 9.81 146 6.59 146 6.59 146 6.59 144 1.96 1.67 1.23 0.79 0.41 0.18 0.17  99.99  ROJECT STATION:1369 FION:Lat S 2647 Long E 1433  A*10  /HOUR: 432.80  OF TOT. C SAMP.NO.  44.32 149 30.91 152 14.79 148
DATE:27/10/92 GEAR  start stop duratic TIME:03:37:00 04:07:00 30 ( LOG:2127.70 2129.00 1.57 FDEPTH: 496 495 BDEPTH: 496 495 Towing dir: 345 Wire of Sorted: 79 Kg Total cat  SPECIES  Merluccius paradoxus, female Merluccius paradoxus, male Deania calcea Coelorinchus fasciatus Trachyrinus scabrus Selachophidium guentheri Etmopterus lucifer Malacocephalus laevis Todarodes sagittatus Deepwater fish mixture Notacanthus sexspinis Hoplostethus mediterraneus S H R I M P S Epigonus pandionis Maulisia microlepis C R A B S  Total  DATE:27/10/92 GEAR Mulisia microlepis C R A B S  Total  DATE:27/10/92 GEAR Start stop duratio TIME:05:19:00 05:49:00 30 ( LOG:2134.20 2135.60 1.50 FDEPTH: 602 595 BDEPTH: 602 595 Towing dir: 345 Wire o  Sorted: 114 Kg Total cat  SPECIES  Merluccius paradoxus, female Coelorinchus braueri Deania calcea Raja leopardus Todarodes sagittatus Nezumia milleri Shrimps, small, non comm. Coelorinchus matamua Selachophidium guentheri Etmopterus pusilius Etmopterus pusilius Etmopterus pusilius Etmopterus pusilius Etmopterus pusilier Merluccius paradoxus, male Allocyttus verrucosus Ebinania costaecanarie Holohalacurus regani	R TYPE: BT No:1	PROJECT STATION:1364 POSITION:Lat S 2711 Long E 1405 : 3 : 1 e:	DATE:27/10/92 GEAR  START Stop duratic TIME:12:18:00 12:48:00 30 LOG:2169.40 2170.80 1.58 FDEPTH: 351 351 BDEPTH: 351 351 Towing dir: 340 Wire of Sorted: 146 Kg Total cat  SPECIES  Merluccius paradoxus, female Merluccius capensis, female Merluccius paradoxus, male Krill Merluccius capensis, male Helicolenus dactylopterus Todarodes sagittatus MYCNOPHIDAE Coelorinchus fasciatus S H R I M P S C R A B S Nezumia milleri  Total  DATE:27/10/92 GEAR Start stop duratic TIME:15:03:00 15:33:00 30 LOG:2189.40 2199.80 1.64 FDEPTH: 280 280 Towing dir: 340 Wire of Sorted: 216 Kg Total cat  SPECIES  Merluccius capensis, female Genypterus capensis Merluccius capensis, male Trachurus capensis, male Trachurus capensis Merluccius paradoxus, female Todarodes sagittatus MYCTOPHIDAE Merluccius paradoxus, male Krill	0.20 10  1133.98  R TYPE: BT No:1 POSI (min) Purpose code: 3 Area code : 1 GearCond.code: Validity code: out:1050 m Speed: 31 k ch: 510.18 CATCH  CATCH/HOUR weight numbers 579.60 1148 181.30 112 100.10 274 67.20 26.68 22 19.96 302 17.08 22 12.60 8.06 120 4.20 1.82 42 1.76 28  1020.36  R TYPE: BT No:1 POSI: on min) Purpose code: 3 Area code : 1 GearCond.code: validity code:	T100.00  ROJECT STATION:1368 TION:Lat S 2650 Long E 1418  n*10  /HOUR: 1020.36  OF TOT. C SAMP.NO.  56.80 147 17.77 145 9.81 146 6.59 2.61 144 1.96 1.67 1.23 0.79 0.41 0.18 0.17  99.99  ROJECT STATION:1369 FION:Lat S 2647 Long E 1433  **10  /HOUR: 432.80  OF TOT. C SAMP.NO.  44.32 149 30.91 152 14.79 146 4.30 153 2.34 151 0.98 0.88 0.58 150 0.37
DATE:27/10/92 GEAR  start stop duratic TIME :03:37:00 04:07:00 30 ( LOG :2127.70 2129.00 1.57 FDEPTH: 496 495 BDEPTH: 496 495 BDEPTH: 496 495 Towing dir: 345 Wire of Sorted: 79 Kg Total cat  SPECIES  Merluccius paradoxus, female Merluccius paradoxus, male Deania calcea Coelorinchus fasciatus Trachyrinus scabrus Selachophidium guentheri Etmopterus lucifer Malacocephalus laevis Todarodes sagittatus Deepwater fish mixture Notacanthus sexspinis Hoplostethus mediterraneus S H R I M P S Epigonus pandionis Maulisia microlepis C R A B S  Total  DATE:27/10/92 GEAR Mulisia microlepis C R A B S  Total  DATE:27/10/92 GEAR START STOP duratio TIME :05:19:00 05:49:00 30 ( LOG :2134.20 2135.60 1.50 FDEPTH: 602 595 Towing dir: 345 Wire o  Sorted: 114 Kg Total cat  SPECIES  Merluccius paradoxus, female Coelorinchus braueri Deania calcea Raja leopardus Todarodes sagittatus Nezumia milleri Shrimps, small, non comm. Coelorinchus matamua Selachophidium guentheri Etmopterus pusillus Edelenus dactylopterus Geryon martae	R TYPE: BT No:1	PROJECT STATION:1364 POSITION:Lat S 2711 Long E 1405 : 3 : 1 e:	DATE:27/10/92 GEAR  START Stop duratic TIME:12:18:00 12:48:00 30 LOG:2169.40 2170.80 1.58 FDEPTH: 351 351 BDEPTH: 351 351 Towing dir: 340 Wire of Sorted: 146 Kg Total cat  SPECIES  Merluccius paradoxus, female Merluccius capensis, female Merluccius paradoxus, male Krill Merluccius capensis, male Helicolenus dactylopterus Todarodes sagittatus MYCNOPHIDAE Coelorinchus fasciatus S H R I M P S C R A B S Nezumia milleri  Total  DATE:27/10/92 GEAR Start stop duratic TIME:15:03:00 15:33:00 30 LOG:2189.40 2199.80 1.64 FDEPTH: 280 280 Towing dir: 340 Wire of Sorted: 216 Kg Total cat  SPECIES  Merluccius capensis, female Genypterus capensis Merluccius capensis, male Trachurus capensis, male Trachurus capensis Merluccius paradoxus, female Todarodes sagittatus MYCTOPHIDAE Merluccius paradoxus, male Krill Coelorinchus fasciatus Sufflogobius bibarbatus	0.20 10  1133.98  RTYPE: BT No:1 POSI (min) Purpose code: 3 Area code : 1 GearCond.code: validity code: out:1050 m Speed: 31 k ch: 510.18 CATCH  CATCH/HOUR weight numbers 579.60 1148 181.30 112 100.10 274 67.20 26.68 22 19.96 302 17.08 22 12.60 8.06 120 4.20 1.82 42 1.76 28  1020.36  TYPE: BT No:1 POSI on min) Purpose code: 3 Area code : 1 GearCond.code: validity code: validity code: validity code: validity code: validity code: validity code: valid: 900 m Speed: 31 k; ch: 216.40 CATCH/HOUR weight numbers 191.80 133.80 112 64.00 64 10.14 78 4.26 10 3.80 2.50 28 1.60 0.90 10 0.64 160	T100.00  ROJECT STATION:1368 TION:Lat S 2650 Long E 1418  n*10  /HOUR: 1020.36  OF TOT. C SAMP.NO.  56.80 147 17.77 145 9.81 146 6.59 2.61 144 1.96 1.67 1.23 0.79 0.41 0.18 0.17  99.99  ROJECT STATION:1369 FION:Lat S 2647 Long E 1433  A*10  /HOUR: 432.80  OF TOT. C SAMP.NO.  44.32 149 30.91 152 14.79 148 4.30 153 2.34 151 0.98 0.88 0.58 150 0.37 0.21 0.15
DATE:27/10/92 GEAR  Start stop duratic TIME :03:37:00 04:07:00 30 ( CG :2127.70 2129.00 1.57 FDEPTH: 496 495 BDEPTH: 496 495 Towing dir: 345 Wire of  Sorted: 79 Kg Total cat  SPECIES  Merluccius paradoxus, female Merluccius paradoxus, male  Deania calcea Coelorinchus fasciatus  Trachyrinus scabrus  Selachophidium guentheri  Etmopterus lucifer  Malacocephalus laevis  Todarodes sagitatus  Deepwater fish mixture  Notacanthus sexspinis  Hoplostethus mediterraneus  S H R I M P S  Epigonus pandionis  Maulisia microlepis  C R A B S  Total  DATE:27/10/92 GEAR  Start stop duratio  TIME: 05:19:00 05:49:00 30 ( LOG: 2134.20 2135.60 1.50 FDEPTH: 602 595 BDEPTH: 602 595 BDEPTH: 602 595 Towing dir: 345 Wire o  Sorted: 114 Kg Total cat  SPECIES  Merluccius paradoxus, female  Coelorinchus braueri  Deania calcea  Raja leopardus  Todarodes sagittatus  Nezumia milleri  Shrimps, small, non comm.  Coelorinchus matamua  Selachophidium quentheri  Etmopterus lucifer  Merluccius paradoxus, male  Allocytus verrucosus  Ebinania costaecanarie  Holohalaelurus regani  Helicolenus dactylopterus  Geryon maritae  Nescopelus macrolepidotus  Raja confundens  Lycodes agulhensis	R TYPE: BT No:1   10   10   10   10   10   10   10	PROJECT STATION:1364 POSITION:Lat S 2711 Long E 1405 : 1 :: 1 :: 1 :: 1 :: 1 :: 1 :: 1 :: 1	DATE:27/10/92 GEAR  start stop duratic TIME:12:18:00 12:48:00 30 LOG:2169.40 2170.80 1.58 FDEPTH: 351 351 BDEPTH: 351 351 Towing dir: 340 Wire of Sorted: 146 Kg Total cat  SPECIES  Merluccius paradoxus, female Merluccius capensis, female Merluccius paradoxus, male Krill Merluccius capensis, male Helicolenus dactylopterus Todarodes sagittatus MYCTOPHIDAE Coelorinchus fasciatus S H R I M P S C R A B S Nezumia milleri  Total  DATE:27/10/92 GEAR START Stop duratic TIME:15:03:00 15:33:00 30 ( LOG:2189.40 2190.80 1.64 FDEPTH: 280 280 BDEPTH: 280 280 BDEPTH: 280 280 SORTED SOR	0.20 10  1133.98  RTYPE: BT No:1 POSI (min) Purpose code: 3 Area code : 1 GearCond.code: yalldity code: out:1050 m Speed: 31 k ch: 510.18 CATCH  CATCH/HOUR weight numbers 579.60 1148 181.30 112 100.10 274 67.20 26.68 22 19.96 302 17.08 22 12.60 8.06 120 4.20 1.82 42 1.76 28  1020.36  RTYPE: BT No:1 POSI on min) Purpose code: 3 Area code : 1 GearCond.code: validity code:	T100.00  ROJECT STATION:1368 TION:Lat S 2650 Long E 1418  n*10  /HOUR: 1020.36  OF TOT. C SAMP.NO.  56.80 147 17.77 145 9.81 146 6.59 2.61 144 1.96 1.67 1.23 0.79 0.41 0.18 0.17  99.99  ROJECT STATION:1369 FION:Lat S 2647 Long E 1433  n*10  /HOUR: 432.80  OF TOT. C SAMP.NO.  44.32 149 9.99 100:100 100
DATE:27/10/92 GEAR  start stop duratic TIME :03:37:00 04:07:00 30 ( LOG :2127.70 2129.00 1.57 FDEPTH: 496 495 BDEPTH: 496 495 Towing dir: 345 Wire of Sorted: 79 Kg Total cat  SPECIES  Merluccius paradoxus, female Merluccius paradoxus, male Deania calcea Coelorinchus fasciatus Trachyrinus scabrus Selachophidium guentheri Etmopterus lucifer Malacocephalus laevis Todarodes sagittatus Deepwater fish mixture Notacanthus sexspinis Hoplostethus mediterraneus S H R I M P S Epigonus pandionis Maulisia microlepis C R A B S  Total  DATE:27/10/92 GEAR TIME :05:19:00 05:49:00 30 ( LOG :2134.20 2135.60 1.50 FDEPTH: 602 595 BDEPTH: 602 595 Towing dir: 345 Wire o  Sorted: 114 Kg Total cat SPECIES  Merluccius paradoxus, female Coelorinchus braueri Deania calcea Raja leopardus Todarodes sagittatus Nezumia milleri Shrimps, small, non comm. Coelorinchus matamua Selachophidium guentheri Etmopterus pusillus Etmopterus pusillus Etmopterus lucifer Merluccius varadoxus, male Allocyttus verrucosus Ebinania costaecanarie Holohalaelurus regani Helicolenus dactylopterus Geryon maritae Neoscopelus macrolepidotus Raja confundens	R TYPE: BT No:1	PROJECT STATION:1364 POSITION:Lat S 2711 Long E 1405 : 1 :: 1 :: 1 :: 1 :: 1 :: 1 :: 1 :: 1	DATE:27/10/92 GEAR  start stop duratic TIME:12:18:00 12:48:00 30 LOG:2169.40 2170.80 1.58 FDEPTH: 351 351 BDEPTH: 351 351 Towing dir: 340 Wire of Sorted: 146 Kg Total cat  SPECIES  Merluccius paradoxus, female Merluccius capensis, female Merluccius paradoxus, male Helicolenus dactylopterus Todarodes sagittatus MYCTOPHIDAE Coelorinchus fasciatus S H R I M P S C R A B S Nezumia milleri  Total  DATE:27/10/92 GEAR start stop duratic TIME:15:03:00 15:33:00 30 (LOG:2189.40 2190.80 1.64 FDEPTH: 280 280 BDEPTH: 280 280 Towing dir: 340 Wire of Sorted: 216 Kg Total cat  SPECIES  Merluccius capensis, male Genypterus capensis Merluccius capensis, male Trachurus capensis Merluccius paradoxus, female Genypterus capensis Merluccius paradoxus, female Todarodes sagittatus MYCTOPHIDAE Merluccius paradoxus, male Krill Coelorinchus fasciatus Sufflogobius bibarbatus Helicolenus dactylopterus	0.20 10  1133.98  R TYPE: BT No:1 POSI On Area code: 1 GearCond.code: Validity code: out:1050 m Speed: 31 k ch: 510.18 CATCH  CATCH/HOUR weight numbers 579.60 1148 181.30 112 100.10 274 67.20 26.68 22 17.08 22 17.08 22 17.08 22 17.08 22 17.08 22 17.08 22 17.08 22 17.08 22 17.08 22 17.08 22 17.08 22 17.08 22 18.00 64 18.10 182 42 18.10 182 42 18.10 182 42 18.10 182 42 18.10 182 42 18.10 182 42 18.10 182 42 18.10 182 42 18.10 182 42 18.10 182 42 18.10 182 42 18.10 182 42 18.10 183 183 183 18.10 183 183 183 183 183 183 183 183 183 183	T100.00  ROJECT STATION:1368 TION:Lat S 2650 Long E 1418  n*10  /HOUR: 1020.36  OF TOT. C SAMP.NO.  56.80 147 17.77 145 9.81 146 6.59 2.61 144 1.96 1.67 1.23 0.79 0.41 0.18 0.17  99.99  ROJECT STATION:1369 FION:Lat S 2647 Long E 1433  A*10  /HOUR: 432.80  OF TOT. C SAMP.NO.  44.32 149 30.91 152 14.79 148 4.30 153 2.34 151 0.98 0.88 0.58 150 0.37 0.21 0.15 0.12

start stop duratio TIME :17:37:00 18:07:00 30 ( LOG :2207.90 2209.30 1.60 FDEPTH: 176 174 BDEPTH: 176 174	n Long	TION:1370 S 2645 E 1448	Start stop durat TIME :13:29:00 13:59:00 30 LOG :2995.10 2996.50 1.70 FDEPTH: 373 371 BDEPTH: 373 371	(min) Purpose code: 3
Sorted: 38 Kg Total cat	ch: 380.40 CATCH/HOUR: 7	760.80	Sorted: 118 Kg Total c	atch: 694.86 CATCH/HOUR: 1389.72
SPECIES	CATCH/HOUR & OF TOT. C	SAMP.NO.	SPECIES	CATCH/HOUR & OF TOT. C SAMP.NO.
Merluccius capensis, female Merluccius capensis, male Trachurus capensis Chelidonichthys capensis MYCTOPHIDAE Lepidopus caudatus	weight 428.00         400 56.26           220.00         3120         28.92           76.00         440 9.99         3.31           10.40         1.37         1.37           760.80         100.01         100.01	155 154 156	Merluccius paradoxus, female Merluccius paradoxus, male Merluccius capensis, female Helicolenus dactylopterus Galeus polli MYCTOPHIDAE Todarodes sagittatus Coelorinchus fasciatus Merluccius capensis, male Krill	weight numbers 1049.00 2976 75.48 170 116.90 364 8.41 169 60.68 48 4.37 172 48.80 552 3.51 25.76 258 1.85 23.40 1.68 20.94 58 1.51 20.58 176 1.48 5.30 12 0.38 171 4.36
start stop duratio. TIME :19:26:00 19:51:00 25 (: LOG :2218.80 2219.80 1.30 FDEPTH: 127 127 BDEFTH: 127 127	T.ong	FION:1371 S 2641 E 1456	Trachurus capensis Nezumia milleri Selachophidium guentheri PORTUNIDAE S H R I M P S Total	1.36 12 0.31 3.88 58 0.28 2.82 48 0.20 1.52 24 0.11 1.42 0.10 1389.72 99.98
Sorted: 34 Kg Total cate	ch: 212.66 CATCH/HOUR: 5	10.38		
Meriuccius capensis Genypterus capensis Chelidonichthys capensis Meriuccius capensis Trachurus capensis	CATCH/HOUR Numbers 478.08 7034 93.67 13.92 10 2.73 8.64 38 1.69 7.44 2 1.46 2.30 19 0.45	SAMP.NO. 157 158	start stop durat: TIME :15:58:00 16:28:00 30 LOG :2311.80 2313.40 1.55 FDEPTH: 436 438 BDEPTH: 436 438	(min) Purpose code: 3 Area code : 1 GearCond.code: Validity code: out:1250 m Speed: 30 kn*10
	310.50		SPECIES	CARCUIUOUR A OU DOD O CAND NO
start stop duration TIME :06:26:00 06:56:00 30 (n LOG :2248.80 2250.30 1.50 FDEPTH: 170 170 BDEPTH: 170 170	nin) Purpose code: 3 Area code: 1 GearCond.code: Validity code: ut: 700 m Speed: 30 kn*10	TION:1372 S 2621 E 1443	Merluccius paradoxus, female Merluccius paradoxus, male Coelorinchus fasciatus Nezumia mileri Todarodes sagittatus Selachophidium quentheri Helicolenus dactylopterus Galeus polli Epigonus denticulatus Trachyrinus scabrus Maulisia microlepis	CATCH/HOUR Weight numbers 586.00 960 70.00 174 199.00 170 11.83 173 71.00 1160 8.48 40.50 680 4.84 17.70 80 2.11 15.80 310 1.89 5.20 30 0.62 0.80 20 0.10 0.60 0.60 30 0.07 0.30 10 0.04 0.20 10 0.02
SPECIES	CATCH/HOUR % OF TOT. C weight numbers	SAMP.NO.	Total	837.10 100.00
Merluccius capensis, female Merluccius capensis, male Callorhinchus capensis Trachurus capensis Chelidonichthys capensis Todaropsis eblanae MYCTOPHIDAE Sufflogobius bibarbatus	288.00 3288 42.91 259.20 3456 38.62 88.80 48 13.23 18.00 24 2.68 13.12 120 1.95 2.16 24 0.32 1.68 0.25 0.24 144 0.04	160 159	DATE:28/10/92 GER Start stop durati TIME :17:42:00 18:10:00 28	PROJECT STATION:1377 AR TYPE: BT No:1 POSITION:Lat S 2621 Lon Long E 1338 (mtn) Purpose code: 3
Total	671.20 100.00		LOG: 2319.00 2320.30 1.60 FDEPTH: 547 572 BDEPTH: 547 572 Towing dir: 360 Wire	Area code : 1 GearCond.code: 8 Validity code: 1 out:1500 m Speed: 31 kn*10
	671.20 100.00  PROJECT STAT:		LOG :2319.00 2320.30 1.60 FDEPTH: 547 572 BDEPTH: 547 572	Area code : 1 GearCond.code: 8 Validity code: 1 out:1500 m Speed: 31 kn*10
DATE:28/10/92 GEAR start stop duration TIME :08:19:00 08:47:00 28 (n LOG :2259.80 2261.00 1.50 FDEPTH: 264 264 BDEEPTH: 264 264	671.20 100.00  PROJECT STAT.  TYPE: BT No:1 POSITION:Lat	S 2621	LOG :2319.00 2320.30 1.60 FDEPTH: 547 572 BDEPTH: 547 572 Towing dir: 360 Wire Sorted: 148 Kg Total ca  SPECIES Merluccius paradoxus, female Centroscymnus crepidater Coelorinchus sp. Nezumia milleri	Area code : 1 GearCond.code: 8 Validity code: 1 out:1500 m Speed: 31 kn*10 stch: 697.17 CATCH/HOUR: 1493.94  CATCH/HOUR & OF TOT. C SAMP.NO. weight numbers 766.07 782 51.28 176 294.64 600 19.72 125.36 557 8.39 120.00 1618 8.03
DATE:28/10/92 GEAR start stop duration TIME :08:19:00 08:47:00 28 (n LOG :2259.80 2261.00 1.50 FDEPTH: 264 264 BDEEPTH: 264 264	PROJECT STAT:  PROJECT STAT:  TYPE: BT No:1 POSITION:Lat :  Long i  Area code : 1 GearCond.code: Validity code: t: 900 m Speed: 30 kn*10	S 2621	LOG :2319.00 2320.30 1.60 FDEPTH: 547 572 BDEPTH: 547 572 Towing dir: 360 Wire Sorted: 148 Kg Total ca  SPECIES Merluccius paradoxus, female Centroscymnus crepidater Coelorinchus sp. Nezumia milleri Deanla calcea Selachophidium guentheri	Area code : 1 GearCond.code: 8 Validity code: 1 out:1500 m Speed: 31 kn*10 stch: 697.17 CATCH/HOUR: 1493.94  CATCH/HOUR & OF TOT. C SAMP.NO. weight numbers 766.07 782 51.28 176 294.64 600 19.72 125.36 557 8.39 120.00 1618 8.03 32.14 21 2.15 31.39 364 2.10
DATE:28/10/92 GEAR start stop duration TIME:08:19:00 08:47:00 28 (n LOG:2259.80 2261.00 1.50 FDEPTH: 264 264 BDEPTH: 264 264 Towing dir: 310 Wire ou Sorted: 124 Kg Total cato  SPECIES Merluccius capensis, female Merluccius capensis, male Merluccius paradoxus Krill Coelorinchus fasciatus MYCTOPHIDAE Lophius upsicephalus Todarodes sagittatus Lepidopus caudatus Austroglossus microlepis	### PROJECT STAT: TYPE: BT No:1 POSITION:Lat :  ### Propose code: 3 Long in a Area code : 1     GearCond.code: Validity code: Validity code:  ### Ut: 900 m Speed: 30 kn*10  ### CATCH/HOUR % OF TOT. C  ### Weight numbers	S 2621 E 1433	LOG :2319.00 2320.30 1.60 FDEPTH: 547 572 BDEPTH: 547 572 Towing dir: 360 Wire Sorted: 148 Kg Total ca  SPECIES  Merluccius paradoxus, female Centroscymnus crepidater Coelorinchus sp. Nezumia milleri Deania calcea Selachophidium guentheri Todarodes sagittatus Lophius upsicephalus Merluccius paradoxus, male Trachyrinus scabrus Etmopterus pusillus CONGRIDAE Raja confundens Hydrolagus sp. Hoplostethus atlanticus Lithodes ferox Hoplostethus melanopus Notacanthus sexspinis	Area code : 1 GearCond. code: 8 Validity code: 1 out:1500 m Speed: 31 km*10  atch: 697.17 CATCH/HOUR: 1493.94  CATCH/HOUR to FOR TOT. C SAMP.NO. weight numbers 766.07 782 51.28 176 294.64 600 19.72 125.36 557 8.39 120.00 1618 8.03 32.14 21 2.15 31.39 364 2.10 22.18 43 1.48 21.21 2 1.42 177 19.29 21 1.29 175 16.61 107 1.11 15.00 21 1.00 9.21 2.062 8.04 11 0.54 6.11 11 0.54 6.11 11 0.54 6.11 11 0.54 6.11 11 0.54 6.11 11 0.54 6.11 11 0.54 6.11 11 0.54 6.11 11 0.54 6.11 11 0.54 6.11 11 0.54 6.11 11 0.54 6.11 11 0.54 6.11 11 0.54 6.11 11 0.54 6.11 11 0.54 6.11 11 0.54 6.11 0.79 2 0.05 0.64 64 0.04 0.43 21 0.03
DATE:28/10/92 GEAR start stop duration TIME :08:19:00 08:47:00 28 (m LOG :2259.80 2261.00 1.50 FDEPTH: 264 264 Towing dir: 310 Wire ou Sorted: 124 Kg Total catc  SPECIES Merluccius capensis, female Merluccius capensis, male Merluccius paradoxus Krill Coelorinchus fasciatus MCTOPHIDAE Lophtus upsicephalus Todarodes sagittatus Lepidopus caudatus	PROJECT STAT: TYPE: BT No:1 POSITION:Lat : In Purpose code: 3 Long i Area code : 1 GearCond.code: UValidity code: Ut: 900 m Speed: 30 kn*10  CATCH/HOUR OF TOT. C Weight numbers: 225.39 499 49.53 95.64 399 21.02 50.25 516 11.04 30.00 6.59 19.14 189 4.21 15.00 3.30 13.07 9 2.87 3.30 9 0.73	S 2621 E 1433 55.06 SAMP.NO. 163 162 164	LOG :2319.00 2320.30 1.60 FDEPTH: 547 572 BDEPTH: 547 572 Towing dir: 360 Wire Sorted: 148 Kg Total ca  SPECIES  Merluccius paradoxus, female Centroscymnus crepidater Coelorinchus sp. Nezumia milleri Deania calcea Selachophidium quentheri Todarodes sagittatus Lophius upsicephalus Merluccius paradoxus, male Trachyrinus scabrus Etmopterus pusillus CONGRIDAE Raja confundens Hydrolagus sp. Hoplostethus atlanticus Lithodes ferox Hoplostethus melanopus	Area code : 1 GearCond. code: 8 Validity code: 1 out:1500 m Speed: 31 km*10  atch: 697.17 CATCH/HOUR: 1493.94  CATCH/HOUR to FTOT. C SAMP.NO. weight numbers 766.07 782 51.28 176 294.64 600 19.72 125.36 557 8.39 120.00 1618 8.03 32.14 21 2.15 31.39 364 2.10 22.18 43 1.48 21.21 2 1.42 177 19.29 21 1.29 175 16.61 107 1.11 15.00 21 1.00 9.21 21 0.62 8.04 11 0.54 6.11 11 0.41 4.82 21 0.32 0.79 2 0.05 0.64 664 0.04
DATE: 28/10/92 GEAR start stop duration TIME : 08:19:00 08:47:00 28 (m LOG : 2259.80 2261.00 1.50 FDEPTH: 264 264 BDEPTH: 264 264 Towing dir: 310 Wire ou Sorted: 124 Kg Total catc  SPECIES Merluccius capensis, female Merluccius paradoxus Krill Coelorinchus fasciatus MYCTOPHIDAE Lophius upsicephalus Todarodes sagittatus Lepidopus caudatus Austroglossus microlepis Suffloglossus microlepis Suffloglossus microlepis Suffloglossus microlepis	### PROJECT STAT: TYPE: BT No:1 POSITION:Lat : ### Purpose code: 1     GearCond.code: Validity code: ### Use of the code: 1	S 2621 E 1433 55.06 SAMP.NO. 163 162 164	LOG :2319.00 2320.30 1.60 FDEPTH: 547 572 BDEPTH: 547 572 Towing dir: 360 Wire Sorted: 148 Kg Total ca  SPECIES  Merluccius paradoxus, female Centroscymnus crepidater Coelorinchus sp. Nezumia milleri Deania calcea Selachophidium guentheri Todarodes sagittatus Lophius upsicephalus Merluccius paradoxus, male Trachyrinus scabrus Etmopterus pusillus CONGRIDAE Raja confundens Hydrolagus sp. Hoplostethus atlanticus Lithodes ferox Hoplostethus melanopus Notacanthus sexspinis	Area code : 1 GearCond. code: 8 Validity code: 1 out:1500 m Speed: 31 km*10  atch: 697.17 CATCH/HOUR: 1493.94  CATCH/HOUR to FOR TOT. C SAMP.NO. weight numbers 766.07 782 51.28 176 294.64 600 19.72 125.36 557 8.39 120.00 1618 8.03 32.14 21 2.15 31.39 364 2.10 22.18 43 1.48 21.21 2 1.42 177 19.29 21 1.29 175 16.61 107 1.11 15.00 21 1.00 9.21 2.062 8.04 11 0.54 6.11 11 0.54 6.11 11 0.54 6.11 11 0.54 6.11 11 0.54 6.11 11 0.54 6.11 11 0.54 6.11 11 0.54 6.11 11 0.54 6.11 11 0.54 6.11 11 0.54 6.11 11 0.54 6.11 11 0.54 6.11 11 0.54 6.11 11 0.54 6.11 11 0.54 6.11 11 0.54 6.11 0.79 2 0.05 0.64 64 0.04 0.43 21 0.03
DATE: 28/10/92 GEAR  start stop duration TIME : 08:19:00 08:47:00 28 (n LOG : 2259.80 2261.00 1.50 FDEFTH: 264 264 BDEPTH: 264 264 Towing dir: 310 Wire ou Sorted: 124 Kg Total catc  SPECIES  Merluccius capensis, female Merluccius capensis, male Merluccius capensis, male Merluccius capensis, male Merluccius paradoxus Krill Coelorinchus fasciatus MYCTOPHIDAE Lophius upsicephalus Todarodes sagittatus Lepidopus caudatus Austroglossus microlepis Sufflogobius bibarbatus Squilla acuelata calmani Total  DATE: 28/10/92 GEAR start stop duration TIME : 10:39:00 11:07:00 28 (m LOG : 2275.10 2276.40 1.50 FDEFTH: 305 308 BDEFTH: 305 308 BDEFTH: 305 308	PROJECT STAT:  TYPE: BT No:1 POSITION:Lat :  (In) Purpose code: 3	S 2621 E 1433 S55.06 SAMP.NO. 163 162 164 161	LOG :2319.00 2320.30 1.60 FDEPTH: 547 572 BDEPTH: 547 572 Towing dir: 360 Wire  Sorted: 148 Kg Total ca  SPECIES  Merluccius paradoxus, female Centroscymnus crepidater Coelorinchus sp. Nezumia milleri Deania caicea Selachophidium quentheri Todarodes sagittatus Lophius upsicephalus Merluccius paradoxus, male Trachyrinus scabrus Etmopterus pusillus CONGRIDAE Raja confundens Hydrolagus sp. Hoplostethus atlanticus Lithodes ferox Hoplostethus melanopus Notacanthus sexspinis  Total  DATE:28/10/92 GEA start stop durati TIME :23:30:00 00:00:00 30 LOG :2355.00 2356.40 1.50 FDEETH: 591 607 BDEPTH: 591 607	Area code : 1 GearCond. code: 8 Validity code: 1 out:1500 m Speed: 31 km*10  atch: 697.17 CATCH/HOUR: 1493.94  CATCH/HOUR * OF TOT. C SAMP.NO.  weight numbers 766.07 782 51.28 176 294.64 600 19.72 125.36 557 8.39 120.00 1618 8.03 32.14 21 2.15 31.39 364 2.10 22.18 43 1.48 21.21 2 1.42 177 19.29 21 1.29 175 16.61 107 1.11 15.00 21 1.00 9.21 2.10 9.21 1.00 9.21 2.10 9.21 1.00 9.21 1.00 9.21 1.00 9.21 0.62 8.04 11 0.54 6.11 11 0.41 4.82 21 0.32 0.79 2 0.05 0.64 64 0.04 0.43 21 0.03  1493.93 99.98  AREA CODE: STATION:1378 BR TYPE: BT No:1 POSITION:Lat S 2559 On (min) Purpose code: 3 GearCond. code: Validity code: out:1600 m Speed: 30 km*10  CATCH/HOUR * OF TOT. C SAMP.NO.
DATE: 28/10/92 GEAR  start stop duration TIME: 08:19:00 08:47:00 28 (n LOG: 12259.80 2261.00 1.50 FDEPTH: 264 264 BDEPTH: 264 264 Towing dir: 310 Wire out Sorted: 124 Kg Total catc  SPECIES  Merluccius capensis, female Merluccius capensis, male Merluccius paradoxus Krill Coelorinchus fasciatus MYCTOPHIDAE Lophius upsicephalus Todarodes sagittatus Lepidopus caudatus Austroglossus microlepis Sufflogobius bibarbatus Squilla acuelata calmani Total  DATE: 28/10/92 GEAR start stop duration TIME: 10:39:00 11:07:00 28 (m LOG: 2275.10 2276.40 1.50 FDEPTH: 305 308 BDEPTH: 305 308 BDEPTH: 305 308 Towing dir: 275 Wire out	PROJECT STAT: TYPE: BT No:1 POSITION:Lat : Ini) Purpose code: 1 GearCond.code: Validity code: Lt: 900 m Speed: 30 kn*10 Lh: 212.36 CATCH/HOUR: 4: CATCH/HOUR * OF TOT. C Weight numbers 225.39 499 49.53 95.64 399 21.02 50.25 516 11.04 30.00 6.59 19.14 189 4.21 15.00 3.30 13.07 9 2.87 3.30 9 0.73 1.24 26 0.27 0.99 2 0.22 0.64 90 0.14 0.41 30 0.09  455.07 100.01  PROJECT STAT! TYPE: BT No:1 POSITION:Lat S In) Purpose code: 3 Area code : 1 GearCond.code: Validity code: Validity code: Validity code: 36 kn*10 h: 405.57 CATCH/HCUR: 86	S 2621 E 1433 555.06 SAMP.NO. 163 162 164 161	LOG :2319.00 2320.30 1.60 FDEPTH: 547 572 BDEPTH: 547 572 Towing dir: 360 Wire  Sorted: 148 Kg Total ca  SPECIES  Merluccius paradoxus, female Centroscymnus crepidater Coelorinchus sp. Nezumia milleri Deania calcea Selachophidium guentheri Todarodes sagittatus Lophius upsicephalus Merluccius paradoxus, male Trachyrinus scabrus Etmopterus pusillus CONGRIDAE Raja confundens Hydrolagus sp. Hoplostethus atlanticus Lithodes ferox Hoplostethus melanopus Notacanthus sexspinis Total  DATE:28/10/92 GEA start stop durati TIME :23:30:00 00:00:00 30 LOG :2355.00 2356.40 1.50 FDEPTH: 591 607 TOWing dir: 90 Wire Sorted: 87 Kg Total ca	Area code : 1 GearCond. code: 8 Validity code: 1 out:1500 m Speed: 31 km*10 atch: 697.17 CATCH/HOUR: 1493.94  CATCH/HOUR * OF TOT. C SAMP.NO. weight numbers 766.07 782 51.28 176 294.64 600 19.72 125.36 557 8.39 120.00 1618 8.03 32.14 21 2.15 31.39 364 2.10 22.18 43 1.48 21.21 21 1.29 175 16.61 107 1.11 15.00 21 1.00 9.21 2.1 1.00 9.21 1.00 9.21 1.00 9.21 1.00 9.21 1.00 9.21 1.00 9.21 1.00 9.21 0.62 8.04 11 0.54 6.11 11 0.41 4.82 21 0.32 0.79 2 0.05 0.64 64 0.04 0.43 21 0.03  1493.93 99.98  AREA CODE: STATION:1378 POSITION:Lat S 2559 on
DATE: 28/10/92 GEAR  Start stop duration TIME: 08:19:00 08:47:00 28 (m 10G: 12259.80 2261.00 1.50 FDEPTH: 264 264 BDEPTH: 264 264 Towing dir: 310 Wire ou Sorted: 124 Kg Total catc  SPECIES  Merluccius capensis, female Merluccius capensis, male Merluccius capensis, male Merluccius paradoxus Krill Coelorinchus fasciatus MCTOPHIDAE Lophius upsicephalus Todarodes sagittatus Lepidopus caudatus Austroglossus microlepis Sufflogobius bibarbatus Squilla acuelata calmani Total  DATE: 28/10/92 GEAR TIME: 10:39:00 11:07:00 28 (m LOG: 2275.10 2276.40 1.50 FDEFTH: 305 308 BDEPTH: 305 308 BDEPTH: 305 308 Towing dir: 275 Wire ou	PROJECT STAT:  TYPE: BT No:1 POSITION:Lat :  (In) Purpose code: 3	S 2621 E 1433 555.06 SAMP.NO. 163 162 164 161	LOG :2319.00 2320.30 1.60 FDEPTH: 547 572 BDEPTH: 547 572 Towing dir: 360 Wire  Sorted: 148 kg Total ca  SPECIES  Merluccius paradoxus, female Centroscymnus crepidater Coelorinchus sp. Nezumia milleri Deania calcea Selachophidium quentheri Todarodes sagittatus Lophius upsicephalus Merluccius paradoxus, male Trachyrinus scabrus Etmopterus pusilius CONGRIDAE Raja confundens Hydrolagus sp. Hoplostethus atlanticus Lithodes ferox Roplostethus melanopus Notacanthus sexspinis  Total  DATE:28/10/92 GEA start stop durati TIME :23:30:00 00:00:00 30 LOG :2355.00 2356.40 1.50 FDEPTH: 591 607 BDEPTH: 591 607 Towing dir: 90 Wire Sorted: 87 kg Total ca	Area code : 1 GearCond. code: 8 Validity code: 1 out:1500 m Speed: 31 kn*10 stch: 697.17 CATCH/HOUR: 1493.94  CATCH/HOUR * OF TOT. C SAMP.NO. weight numbers 766.07 782 51.28 176 294.64 600 19.72 125.36 557 8.39 120.00 1618 8.03 32.14 21 2.15 31.39 364 2.10 22.18 43 1.48 21.21 2 1.42 177 19.29 21 1.29 175 16.61 107 1.11 15.00 21 1.00 9.21 21 0.62 8.04 11 0.54 6.11 10 0.54 6.11 10 0.54 6.11 10 0.54 6.11 10 0.54 6.11 10 0.54 6.11 0.59 9.21 21 0.62 8.04 64 0.04 0.43 21 0.03 1493.93 99.98  PROJECT STATION:1378 RT TYPE: BT No:1 POSITION:Lat S 2559 on Long E 1337  Area code : 1 GearCond.code: Validity code: out:1600 m Speed: 30 kn*10  CATCH/HOUR * OF TOT. C SAMP.NO. weight numbers

start stop durat. TIME :01:58:00 02:28:00 30 LOG :2364:10 2365.50 1.46	(min) Purpose code: Area code :	1		start stop durati TIME :17:30:00 18:00:00 30 LOG :2601.30 2602.80 1.60	(min) Purpose code: 3 Area code : 1	Long E 134
FDEPTH: 502 500 BDEPTH: 502 500 Towing dir: 360 Wire	GearCond.code: Validity code: out:1400 m Speed: 29			FDEPTH: 342 340 BDEPTH: 342 340 Towing dir: 355 Wire	GearCond.code: Validity code: out:1050 m Speed: 29 k	
Sorted: 104 Kg Total c			703.76	Sorted: 177 Kg Total ca		/HOUR: 732.00
SPECIES	CATCH/HOUR weight numbers	% OF TOT. C	SAMP.NO.	SPECIES	CATCH/HOUR %	OF TOT. C SAMP.1
Merluccius paradoxus, female Trachyrinus scabrus	389.60 600 112.80 456	16.03	182	Merluccius capensis, female	weight numbers 425.60 252	58.14 197
Lophius upsicephalus Todarodes sagittatus	42.40 4 26.00 88		180	Merluccius capensis, male Merluccius paradoxus, female	104.00 108 69.40 316	14.21 196 9.48 199
Deepwater fish mixture Nezumia milleri	21.20 20.72 1048			Helicolenus dactylopterus Krill	62.40 170 24.20	8.52 200 3.31
Hoplostethus melanopus Merluccius paradoxus, male Coelorinchus fasciatus	17.20 1568 17.04 24 14.40 160	2.42	181	Genypterus capensis Merluccius paradoxus, male	20.40 10 6.80 30	2.79 194 0.93 198
Etmopterus pusillus CONGRIDAE	14.16 88 11.04 16	2.01		Schedophilus huttoni Coelorinchus fasciatus Lophius upsicephalus	6.40 2 3.20 30 3.00 2	0.87 0.44 0.41 195
Selachophidium guentheri Helicolenus dactylopterus	9.20 160 6.72 24	1.31		Galeus polli PORTUNIDAE	2.20 34 2.00 44	0.41 195 0.30 0.27
S H R I M P S Maulisia microlepis	0.80 0.32 16	0.11 0.05		Todarodes sagittatus Nezumia milleri	1.60 8 0.80 26	0.22 0.11
Notacanthus sexspinis	703.76			Total	732.00	100.00
IOLAI	103.16	99.98				
DATE: 29/10/92 GE	AR TYPE: BT No:1 PO	PROJECT STA				
start stop durat: TIME :04:19:00 04:49:00 30	ion	Long	E 1346	DATE:30/10/92 GEA start stop durati	AR TYPE: BT No:1 POSI	ROJECT STATION:13 TION:Lat S 253 Long E 133
LOG :2374.80 2376.30 1.50 FDEPTH: 401 401	Area code : GearCond.code:			TIME :19:15:00 19:46:00 31 LOG :2610.90 2612.60 1.60	(min) Purpose code: 3 Area code : 1	Long E 133
BDEPTH: 401 401 Towing dir: 5 Wire	Validity code: out:1150 m Speed: 30			FDEPTH: 433 437 BDEPTH: 433 437	GearCond.code: Validity code:	
Sorted: 59 Kg Total ca			643.70		out:1200 m Speed: 31 k	
PECIES	CATCH/HOUR weight numbers	% OF TOT. C	SAMP.NO.	Sorted: 124 Kg Total ca	stch: 486.89 CATCH	/HOUR: 942.37
erluccius paradoxus, female elicolenus dactylopterus	448.80 1200 50.94 242	69.72 7.91	185	SPECIES	weight numbers	OF TOT. C SAMP.
eepwater fish mixture erluccius paradoxus, male	38.18 36.64 88	5.93 5.69	184	Merluccius paradoxus, female Merluccius paradoxus, male	763.35 1401 45.68 77	81.00 203 4.85 202
erluccius capensis, female oelorinchus fasciatus ezumia milleri	23.76 22 22.78 210 7.92 144	3.69 3.54 1.23	183	Raja confundens Todarodes sagittatus Galeus polli	34.84 23 20.05 54 17.81 310	3.70 2.13 1.89
odarodes sagittatus aleus polli	5.94 22 4.84 66	0.92 0.75		Helicolenus dactylopterus Selachophidium guentheri	16.41 186 14.32 217	1.89 1.74 1.52
tmopterus pusillus ORTUNIDAE	1.66 12 1.00 22	0.26		Nezumia milleri Lophius upsicephalus	8.75 194 6.52 2	0.93 0.69 201
pigonus denticulatus aulisia microlepis	0.78 44 0.34 12			Coelorinchus fasciatus Hoplostethus cadenati	4.34 62 3.87 201	0.46 0.41
AJIDAE	0.12 12 643.70	0.02		Etmopterus pusillus Photichthys argenteus	3.64 8 1.32 101	0.39 0.14
otai	643.70	99.99		MYCTOPHIDAE Epigonus denticulatus Notacanthus sexspinis	0.54 70 0.46 39 0.46 23	0.06 0.05 0.05
		PROJECT STA		Total	942.36	100.01
start stop durati	ion		S 2600 E 1354			
TIME :06:47:00 07:17:00 30 LOG :2387.50 2388.90 1.40 FDEPTH: 347 350	<pre>(min) Purpose code:     Area code :     GearCond.code:</pre>					
BDEPTH: 347 350	Validity code: out:1050 m Speed: 28	kn*10		DATE:30/10/92 GEA		ROJECT STATION:13
Sorted: 111 Kg Total ca			441.22	start stop durati TIME :21:09:00 21:40:00 31	.on	Long E 133
PECIES		% OF TOT. C	SAMP.NO.	LOG :2621.10 2622.70 1.60 FDEPTH: 644 641	Area code : 1 GearCond.code:	
erluccius capensis, female erluccius paradoxus, female	weight numbers 204.00 200 78.00 256	46.24	187	BDEPTH: 644 641 Towing dir: 350 Wire	Validity code: out:1650 m Speed: 29 kg	n*10
aleus polli elicolenus dactylopterus	78.00 256 42.00 1248 33.60 308	17.68 9.52 7.62	189	Sorted: 152 Kg Total ca	tch: 206.65 CATCH	/HOUR: 399.97
erluccius capensis, male ezumia milleri	30.00 48 13.00 312	6.80 2.95	186	SPECIES	CATCH/HOUR %	OF TOT. C SAMP.N
erluccius paradoxus, male celorinchus fasciatus	9.80 44 9.68 128	2.22 2.19	188	Deania calcea	weight numbers 113.23 50	28.31
ophius upsicephalus chedophilus huttoni	7.24 8 4.56 4	1.64 1.03		Todarodes sagittatus Nezumia milleri	81.29 188 75.87 542	20.32 18.97
odarodes sagittatus ORTUNIDAE enypterus capensis	4.40 12 1.76 32			Merluccius paradoxus, female Ebinania costaecanarie	62.32 48 20.90 31	15.58 205 5.23
enypterus capensis elachophidium guentheri lotacanthus sexspinis	1.66 2 0.84 16 0.44 32	0.19		Raja confundens MYCTOPHIDAE Selachophidium quentheri	14.71 15 10.84	3.68 2.71
pigonus denticulatus quilla acuelata calmani	0.16 16 0.08 8			Deepwater fish mixture Allocyttus verrucosus	5.42 77 4.65 201 3.10 46	1.36 1.16 0.78
otal	441.22	100.02		Hoplostethus mediterraneus Coelorinchus braueri	2.32 93 1.55 8	0.58
				Merluccius paradoxus, male Melanocetus johnsoni	1.14 2 0.77 15	0.29 204 0.19
DATE: 29/10/92 GEA	AR TYPE: BT No:1 PO	PROJECT STA		Hoplostethus cadenati Ceratias holboelli	0.77 15 0.23 8	0.19 0.06
start stop durati TIME :09:20:00 09:34:00 14	Lon	SITION:Lat Long	E 1407	Dicrolene sp. Coelorinchus matamua Shrimps, small, non comm.	0.23 15 0.23 8	0.06
LOG :2403.40 2404.00 0.80 FDEPTH: 277 276	Area code : GearCond.code:	1		Nemichthys scolopacea	0.23 77 0.15 8	0.06 0.04
BDEPTH: 277 276	Validity code: out: 950 m Speed: 28	9		Total	399.95	100.02
		CH/HOUR;				
	itch: CAT					
Towing dir: 360 Wire Sorted: Kg Total ca	CATCH/HOUR	or Tot. C	SAMP.NO.			
Towing dir: 360 Wire Sorted: Kg Total ca PECIES		N OF TOT. C	SAMP.NO.		R TYPE: BT No:1 POSI	ROJECT STATION:13
Towing dir: 360 Wire Sorted: Kg Total ca PECIES UD/SHELL	CATCH/HOUR weight numbers	• OF TOT. C	SAMP.NO.	start stop durati TIME :22:55:00 23:25:00 30	R TYPE: BT No:1 POSI on (min) Purpose code: 3	
Towing dir: 360 Wire Sorted: Kg Total ca PECIES UD/SHELL	CATCH/HOUR weight numbers			start stop durati TIME :22:55:00 23:25:00 30 LOG :2628.20 2629.70 1.60 FDEPTH: 542 541 BDEPTH: 542 541	R TYPE: BT No:1 POSI On (min) Purpose code: 3 Area code : 1 GearCond.code: Validity code:	TION:Lat S 253 Long E 133
Towing dir: 360 Wire Sorted: Kg Total ca PECIES UD/SHELL otal  DATE:30/10/92 GEF	CATCH/HOUR weight numbers 0.00  AR TYPE: BT No:1 PO.	PROJECT STA	TION:1383 S 2542	Start stop durat: TIME :22:55:00 23:25:00 30 LOG :2628.20 2629.70 1.60 FDEPTH: 542 541 BDEPTH: 542 541 Towing dir: 350 Wire	On (min) Purpose code: 3 Area code: 1 GearCond.code: Validity code: out:1450 m Speed: 30 kr	TION:Lat S 253 Long E 133
Towing dir: 360 Wire Sorted: Kg Total ca PECIES UD/SHELL otal  DATE: 30/10/92 GEP Start stop durat; TIME :11:41:00 12:11:00 30	CATCH/HOUR weight numbers 0.00  AR TYPE: BT No:1 PO. Lon (min) Purpose code:	PROJECT STA SITICN:Lat Long	TION:1383	start stop durati TIME :22:55:00 23:25:00 30 LOG :2628.20 2629.70 1.60 FDEPTH: 542 541 BDEPTH: 542 541	On (min) Purpose code: 3 Area code: 1 GearCond.code: Validity code: out:1450 m Speed: 30 kr	TION:Lat S 253 Long E 133
Towing dir: 360 Wire Sorted: Kg Total ca PECIES UD/SHELL total  DATE: 30/10/92 GEP Start stop durat; TIME :11:41:00 12:11:00 30 LOG :2558.50 2559.90 1.56 FDEPTH: 160 158	CATCH/HOUR weight numbers 0.00  AR TYPE: BT No:1 PO on (min) Purpose code: Area code: GearCond.code:	PROJECT STA SITICN:Lat Long	TION:1383 S 2542	Start stop durat: TIME :22:55:00 23:25:00 30 LOG :2628.20 2629.70 1.60 FDEPTH: 542 541 BDEPTH: 542 541 Towing dir: 350 Wire	RR TYPE: BT No:1 POSI'. on (min) Purpose code: 3 Area code: 1 GearCond.code: Validity code: out:1450 m Speed: 30 ki stch: 308.60 CATCH,	TION:Lat S 253 Long E 133
Towing dir: 360 Wire Sorted: Kg Total ca PECIES NUC/SHELL Total  DATE:30/10/92 GEF Start stop drait TIME :11:41:00 12:11:00 30 LOG :2558.50 2559.90 1.56 FDEPTH: 160 158 BDEPTH: 160 158	CATCH/HOUR weight numbers 0.00  AR TYPE: BT No:1 PO: (min) Purpose code: Area code :	PROJECT STA SITION:Lat Long 3	TION:1383 S 2542	Start stop durati TIME :22:55:00 23:25:00 30 LOG :2628:20 2629:70 1.60 FDEPTH: 542 541 BDEPTH: 542 541 Towing dir: 350 Wire Sorted: 100 Kg Total ca	RR TYPE: BT No:1 POSI'. On (min) Purpose code: 3 Area code: 1 GearCond.code: Validity code: out:1450 m Speed: 30 kitch: 308.60 CATCH.  CATCH/HOUR & weight numbers 172.12 5184	TION:Lat S 253 Long E 133 n*10 /HOUR: 617.20 OF TOT. C SAMP.N 27.89
Towing dir: 360 Wire Sorted: Kg Total ca PECIES  UD/SHELL  otal  DATE:30/10/92 GEF START Stop durati TIME :11:41:00 12:11:00 30 LOG :2558.50 2559.90 1.56 FDEPTH: 160 158 BDEPTH: 160 158	CATCH/HOUR weight numbers 0.00  AR TYPE: BT No:1 PO. con (min) Purpose code: Area code : GearCond.code: Validity code: out: 700 m Speed: 31	PROJECT STA SITION: Lat Long 3 1 kn*10	TION:1383 S 2542	start stop durati TIME: 22:755:00 23:25:00 30 LOG: 2628:20 2629:70 1.60 FDEPTH: 542 541 Towing dir: 350 Wire Sorted: 100 Kg Total ca  SPECIES  Nezumia milleri Merluccius paradoxus, female Todarodes sagittatus	RR TYPE: BT No:1 POSI'.  (min) Purpose code: 3 Area code: 1 GearCond.code: Validity code: out:1450 m Speed: 30 ki  tch: 308.60 CATCH.  CATCH/HOUR to weight numbers 172.12 5184 162.40 176 107.90 390	TION:Lat S 253 Long E 133 n*10 /HOUR: 617.20 OF TOT. C SAMP.N 27.89 26.31 207 17.48
Towing dir: 360 Wire Sorted: Kg Total ca  PECIES  RUD/SHELL  Total  DATE: 30/10/92 GEA  Start stop durat;  TIME :11:41:00 12:11:00 30  LOG :2558.50 2559.90 1.56  PDEPTH: 160 158  Towing dir: 360 Wire  Sorted: 69 Kg Total ca	CATCH/HOUR weight numbers 0.00  AR TYPE: BT No:1 PO. (min) Purpose code: Area code : GearCond.code: Validity code: out: 700 m Speed: 31  Atch: 754.16 CATC	PROJECT STA SITION: Lat Long 3 1 kn*10	TION:1383 S 2542 E 1427	start stop durati TIME :22:55:00 23:25:00 30 LOG :2628:20 2629:70 1.60 FDEPTH: 542 541 Towing dir: 350 Wire Sorted: 100 Kg Total ca  SPECIES  Nezumia milleri Merluccius paradoxus, female Todarodes sagittatus Notacanthus sexspinis Hoplostethus melanopus	RTYPE: BT No:1 POSI'.  (min) Purpose code: 3 Area code: 1 GearCond.code: Validity code: out:1450 m Speed: 30 kitch: 308.60 CATCH,  CATCH/HOUR tweight numbers 172.12 5184 162.40 176 107.90 390 56.68 2080 48.36 2340	TION:Lat S 253 Long E 133 n*10 /HOUR: 617.20 OF TOT. C SAMP.N 27.89 26.31 207 17.48 9.18 7.84
Towing dir: 360 Wire Sorted: Kg Total ca PECIES RUD/SHELL Total  DATE:30/10/92 GEP Start stop durat; TIME :11:41:00 12:11:00 30 LGG :2558.50 2559.90 1.56 FDEPTH: 160 158 BDEPTH: 160 158 Towing dir: 360 Wire Sorted: 69 Kg Total ca PECIES PECIES FEILUCCIUS capensis, female erluccius capensis, female	CATCH/HOUR weight numbers 0.00  AR TYPE: BT No:1 PO. Lon (min) Purpose code: Area code: GearCond.code: Validity code: out: 700 m Speed: 31 atch: 754.16 CATC CATCH/HOUR weight numbers 690.00 7620 690.00 8280	PROJECT STA SITION:Lat Long 3 1 kn*10 CH/HOUR: 1 4 OF TOT. C 45.75	TION:1383 S 2542 E 1427 508.32 SAMP.NO.	start stop durati TIME: 22:55:00 23:25:00 30 LOG: 2628.20 2629.70 1.60 FDEPTH: 542 541 BDEPTH: 542 541 Towing dir: 350 Wire Sorted: 100 Kg Total ca  SPECIES Nezumia milleri Merluccius paradoxus, female Todarodes sagittatus Notacanthus sexspinis	RTYPE: BT No:1 POSI'. On (min) Purpose code: 3 A Rea code: 1 GearCond.code: Validity code: Out:1450 m Speed: 30 km Speed:	TION:Lat S 253 Long E 133 n*10 /HOUR: 617.20 OF TOT. C SAMP.N 27.89 26.31 207 17.48 9.18 9.18 7.84 5.90
Towing dir: 360 Wire Sorted: Kg Total ca PECIES  UD/SHELL  Otal  DATE: 30/10/92 GER Start stop durat; TIME :11:41:00 12:11:00 30 LOG :2558.50 2559.90 1.56 FDEPTH: 160 158 BDEPTH: 160 158 BDEPTH: 160 158 Corted: 69 Kg Total ca PECIES  erluccius capensis, female erluccius capensis, male erluccius capensis, female erluccius capensis, female erluccius capensis, female	CATCH/HOUR weight numbers 0.00  AR TYPE: BT No:1 PO. Lon (min) Purpose code: Area code: GearCond.code: Validity code: out: 700 m Speed: 31 atch: 754.16 CATC CATCH/HOUR weight numbers 690.00 7520 690.00 8280 660.04 76 33.00	PROJECT STA SITION:Lat Long 3 1 kn*10 CH/HOUR: 1 4 OF TOT. C 45.75 45.75 4.38 2.19	TION:1383 S 2542 E 1427 508.32 SAMP.NO. 193 192 191	start stop durati TIME :22:55:00 23:25:00 30 LOG :2628.20 2629.70 1.60 FDEPTH: 542 541 BDEPTH: 542 541 Towing dir: 350 Wire Sorted: 100 Kg Total ca  SPECIES  Nezumia milleri Merluccius paradoxus, female Todarodes sagittatus Notacanthus sexspinis Hoplostethus melanopus Deepwater fish mixture Raja confundens Allocyttus verrucosus Selachophidium guentheri Galeus polli	RR TYPE: BT No:1 POSI'.  (min) Purpose code: 3 Area code: 1 GearCond.code: Validity code: out:1450 m Speed: 30 kr  atch: 308.60 CATCH.  CATCH/HOUR veight numbers 172.12 5184 162.40 176 107.90 390 56.68 2080 48.36 2340 36.40 8.58 26	TION:Lat S 253 Long E 133 n*10 /HOUR: 617.20 OF TOT. C SAMP.N 27.89 26.31 207 17.48 9.18 7.84 5.90
Towing dir: 360 Wire Sorted: Kg Total ca PECIES  UD/SHELL  otal  DATE: 30/10/92 GER Start stop durati TIME :11:41:00 12:11:00 30 LOG :2558.50 2559.90 1.56 FDEPTH: 160 158 BDEPTH: 160 158 BDEPTH: 160 158 Cowing dir: 360 Wire Sorted: 69 Kg Total ca PECIES  erluccius capensis, female erluccius capensis, male erluccius capensis, male erluccius capensis, male	CATCH/HOUR weight numbers 0.00  AR TYPE: BT No:1 PO. Ion (min) Purpose code: Area code: GearCond.code: Validity code: out: 700 m Speed: 31 atch: CATCH/HOUR weight numbers 690.00 7520 660.04 76 33.00 15.48 16 9.00 828	PROJECT STA SITION:Lat Long 3 1 kn*10 CH/HOUR: 1 45.75 45.75 4.38 2.19 1.03	TION:1383 S 2542 E 1427 508.32 SAMP.NO.	start stop durati TIME :22:55:00 23:25:00 30 LOG :2628.20 2629.70 1.60 FDEPTH: 542 541 BDEPTH: 542 541 Towing dir: 350 Wire  Sorted: 100 Kg Total ca  SPECIES  Nezumia milleri Merluccius paradoxus, female Todarodes sagittatus Notacanthus sexspinis Hoplosatehus melanopus Deepwater fish mixture Raja confundens Allocyttus verrucosus Selachophidium guentheri Galeus polli Etmopterus lucifer Coelorinchus braueri	RR TYPE: BT No:1 POSI'.  (min) Purpose code: 3	TION:Lat S 253 Long E 133 n*10 /HOUR: 617.20 OF TOT. C SAMP.N 27.89 26.31 207 17.48 9.18 7.84 5.90 1.39 1.10 0.97 0.55 0.51
Towing dir: 360 Wire Sorted: Kg Total c: SPECIES RUD/SHELL Total  DATE: 30/10/92 GEP STAT Stop durat; TIME :11:41:00 12:11:00 30 LCG :2558.50 2559.90 1.56 FDEPTH: 160 158 BDEPTH: 160 158 Towing dir: 360 Wire	CATCH/HOUR weight numbers 0.00  AR TYPE: BT No:1 PO. Lon (min) Purpose code: Area code : GearCond.code: Validity code: out: 700 m Speed: 31 atch: 754.16 CATC CATCH/HOUR weight numbers 650.00 7620 650.00 8280 66.04 76 33.00 15.48 16	PROJECT STA SITION:Lat Long 3 1 kn*10 CH/HOUR: 1 \$ OF TOT. C 45.75 4.38 2.19 1.03	TION:1383 S 2542 E 1427 508.32 SAMP.NO. 193 192 191	start stop durati TIME :22:55:00 23:25:00 30 LOG :2628.20 2629.70 1.60 FDEPTH: 542 541 BDEPTH: 542 541 Towing dir: 350 Wire Sorted: 100 Kg Total ca  SPECIES  Nezumia milleri Merluccius paradoxus, female Todarodes sagittatus Notacanthus sexspinis Hoplostethus melanopus Deepwater fish mixture Raja confundens Allocyttus verrucosus Selachophidium guentheri Galeus polli Etmopterus lucifer	RTYPE: BT No:1 POSI'.  (min) Purpose code: 3 Area code: 1 GearCond.code: validity code: out:1450 m Speed: 30 kr  atch: 308.60 CATCH.  CATCH/HOUR veight numbers 172.12 5184 162.40 176 107.90 390 56.68 2080 48.36 2340 36.40 2340 36.40 8.58 26 6.76 104 5.98 104 3.38 26 3.12 26	TION:Lat S 253 Long E 133  n*10  /HOUR: 617.20  OF TOT. C SAMP.1  27.89 26.31 207 17.48 9.18 7.84 5.90 1.39 1.10 0.97 0.55 0.551

DATE: 31/10/92 GEAR		DJECT STATION:1388	DATE:31/10/92 GE	PROJECT STATION:1393 CAR TYPE: BT No:1 POSITION:Lat S 2501
start stop duratio: TIME: :00:52:00 01:22:00 30 (: LOG::2635.20 2636.50 1.57 FDEPTH: 453 447 BDEPTH: 453 447	ndn) Purpose code: 3 Area code : 1 GearCond.code: Validity code:	Long E 1338	Start stop durat TIME :17:41:00 17:54:00 13 LOG :2737.30 2737.90 0.67 FDEPTH: 175 174 BDEPTH: 175 174	ion Long E 1359 (min) Purpose code: 3
Towing dir: 20 Wire of Sorted: 82 Kg Total cat-	it:1200 m Speed: 30 km			out: 700 m Speed: 31 kn*10
•			SPECIES	CATCH/HOUR & OF TOT. C SAMP.NO.
SPECIES Merluccius paradoxus, female	weight numbers	F TOT. C SAMP.NO.	Merluccius capensis, male	weight numbers 1350.46 10274 71.40 222
Hoplostethus melanopus Nezumia milleri	418.80 1140 58.92 3068 48.96 1036	55.46 209 7.80 6.48	Merluccius capensis, female Chelidonichthys capensis Sufflogobius bibarbatus	439.38 2391 23.23 223 64.62 194 3.42 19.38 3360 1.02
Centrophorus squamosus Deepwater fish mixture	44.60 4 39.12	5.91 5.18	Callorhinchus capensis Trachurus capensis	19.38 3360 1.02 6.46 5 0.34 6.46 65 0.34
Merluccius capensis, female Merluccius paradoxus, male	36.72 24 32.28 72	4.86 210 4.27 208	MYCTOPHIDAE	4.52 2585 0.24
Galeus polli Selachophidium guentheri Todarodes sagittatus	26.76 300 21.48 420 14.04 24	3.54 2.84 1.86	Total	1891.28 99.99
Helicolenus dactylopterus Notacanthus sexspinis	9.00 96 3.36 144	1.19		PROJECT STATION:1394
Trachyrinus scabrus	1.08 12	0.14	start stop durat	AR TYPE: BT No:1 POSITION:Lat S 2459
Total	755.12	99.97	TIME :19:05:00 19:35:00 30 LOG :2746.20 2747.70 1.70 FDEPTH: 21 223 BDEPTH: 211 223 Towing dir: 350 Wire	(min) Purpose code: 3 Area code : 2 GearCond.code: Validity code: out: 800 m Speed: 32 kn*10
DATE:31/10/92 GEAR		DJECT STATION:1389 ION:Lat S 2521	Sorted: 57 Kg Total c	atch: 226.48 CATCH/HOUR: 452.96
start stop duration TIME :06:21:00 06:51:00 30 (r	n nin) Purpose code: 3	Long E 1345	SPECIES	CATCH/HOUR % OF TOT. C SAMP.NO. weight numbers
LOG :2648.10 2649.50 1.70 FDEPTH: 310 303 BDEPTH: 310 303	Area code : l GearCond.code: Validity code:		Merluccius capensis, female Merluccius capensis, male Sufflogobius bibarbatus	260.00 944 57.40 225 145.60 944 32.14 224
	nt:1000 m Speed: 34 km	10	Coelorinchus fasciatus Trachurus capensis	16.80 3.71 13.60 344 3.00 8.80 32 1.94
Sorted: 168 Kg Total cate	th: 672.08 CATCH/F	OUR: 1344.16	Krill Todarodes sagittatus	4.00 0.88 4.00 8 0.88
SPECIES		F TOT. C SAMP.NO.	Galeus polli	0.16 16 0.04
Merluccius capensis, female Merluccius capensis, male	weight numbers 991.20 688 262.40 208	73.74 212 19.52 211	Total	452.96 99.99
Galeus polli Helicolenus dactylopterus	41.60 708 18.40 312	3.09 1.37		PROJECT STATION:1395
Merluccius paradoxus, female Coelorinchus fasciatus Trachurus capensis	11.20 88 7.20 224 7.20 16	0.83 213 0.54	start stop durat	AR TYPE: BT No:1 POSITION:Lat S 2459 1on Long E 1341
Nezumia milleri Selachophidium quentheri	7.20 16 4.00 136 0.40 16	0.54 214 0.30 0.03	TIME :20:59:00 21:28:00 29 LOG :2757.20 2758.80 1.50 FDEPTH: 354 365	<pre>(min) Purpose code: 3     Area code : 2     GearCond.code:</pre>
Coelorinchus fasciatus Hoplostethus melanopus	0.32 8 0.24 8	0.02 0.02	BDEPTH: 354 365	Validity code: out:1050 m Speed: 29 kn*10
Total	1344.16	100.00	Sorted: 98 Kg Total c	
			SPECIES	CATCH/HOUR % OF TOT. C SAMP.NO. weight numbers
			Merluccius capensis, female Merluccius paradoxus, female	192.27 141 55.79 227 36.93 91 10.72 229
DATE:31/10/92 GEAR start stop duration	TYPE: BT No:1 POSITI	DJECT STATION:1390 CON:Lat S 2519 Long E 1353	Merluccius capensis, male Helicolenus dactylopterus	24.99 19 7.25 226 22.45 329 6.51
TIME :08:11:00 08:41:00 30 (n LOG :2658.60 2659.80 1.60		Long E 1333	Nezumia milleri Trachurus capensis Lophius upsicephalus	14.86 294 4.31 14.13 50 4.10 232 12.72 8 3.69 230
FDEPTH: 244 240 BDEPTH: 244 240 Towing dir: 360 Wire ou	GearCond.code: Validity code:		Todarodes sagittatus Coelorinchus fasciatus	8.69 29 2.52 7.24 112 2.10
Sorted: 88 Kg Total cate	t: 850 m Speed: 31 kn* h: 788.40 CATCH/H		Deania profundorum Squilla acuelata calmani Etmopterus pusillus	2.17 4 0.63 2.17 139 0.63 1.82 8 0.53
			Merluccius paradoxus, male Genypterus capensis	1.82 8 0.53 228 1.39 2 0.40 231
SPECIES Merluccius capensis, female	weight numbers	F TOT. C SAMP.NO.	Selachophidium guentheri Notacanthus sexspinis	0.72 25 0.21 0.19 8 0.06
Meriuccius capensis, male Trachurus capensis	1074.60 5004 340.20 2718 108.00 342	68.15 216 21.58 215 6.85 217	Ebinania costaecanarie Total	0.04 14 0.01 344.60 99.99
MYCTOPHIDAE Sufflogobius bibarbatus	23.40 14.40 2106	1.48 0.91		34.00
Coelorinchus fasciatus Galeus polli Lepidopus caudatus	7.20 180 5.40 54 1.80 18	0.46 0.34 0.11	23.02.02.02	PROJECT STATION:1396
Helicolenus dactylopterus	1.80 18	0.11	DATE:31/10/92 GE start stop durat. TIME :22:50:00 23:19:00 29	AR TYPE: BT No:1 POSITION:Lat S 2458 ion Long E 1334 (min) Purpose code: 3
Total	1576.80	99.99	LOG :2767.10 2768.50 1.50 FDEPTH: 550 546	Area code : 2 GearCond.code:
			BDEPTH: 550 546 Towing dir: 340 Wire	Validity code: out:1450 m Speed: 29 kn*10
	PRO	JECT STATION:1391	Sorted: 106 Kg Total c	atch: 327.20 CATCH/HOUR: 676.97
start stop duration		ON:Lat S 2520 Long E 1418	SPECIES	CATCH/HOUR % OF TOT. C SAMP.NO. weight numbers
TIME :11:44:00 12:05:00 21 (n LOG :2687.00 2687.80 1.00 FDEPTH: 164 165	in) Purpose code: 3 Area code : 1 GearCond.code:		Hoplostethus cadenati Merluccius paradoxus, female Nezumia milleri	373.24 8009 55.13 169.86 230 25.09 234 66.46 2537 9.82
BDEPTH: 164 165	Validity code: t: 700 m Speed: 30 kn*	10	Trachyrinus scabrus Todarodes sagittatus	25.72 68 3.80 13.88 46 2.05
Sorted: 24 Kg Total cate	h: 238.40 CATCH/H	OUR: 681.14	Deania profundorum Galeus polli	12.97 23 1.92 5.92 68 0.87
SPECIES	CATCH/HOUR % O	F TOT. C SAMP.NO.	Notacanthus sexspinis Merluccius paradoxus, male Lithodes ferox	5.01 205 0.74 2.11 4 0.31 233 1.80 2 0.27
Merluccius capensis, female	weight numbers 360.00 2771	52.85 219	Total	1.80 2 0.27 676.97 100.00
Merluccius capensis, male Neoharriotta pinnata Chelidonichthys capensis	208.57 2200 80.29 57	30.62 218 11.79		
Sufflogobius bibarbatus MYCTOPHIDAE	24.29 57 4.86 1114 3.14	3.57 0.71 0.46	DATE: 1/11/92 GE.	PROJECT STATION:1397 AR TYPE: BT No:1 POSITION:Lat S 2441
Total	681.15	100.00	start stop durat. TIME :01:42:00 02:12:00 30	ion Long E 1330
			LOG :2785.60 2787.00 1.55 FDEPTH: 500 500	Area code : 2 GearCond.code:
			BDEPTH: 500 500 Towing dir: 335 Wire	Validity code: out:1400 m Speed: 31 kn*10
	TYPE: BT No:1 POSITI	JECT STATION:1392 ON:Lat S 2501	Sorted: 57 Kg Total c	atch: 229.16 CATCH/HOUR: 458.32
start stop duration TIME :14:36:00 14:51:00 15 (π LOG :2709.00 2709.80 0.80	in) Purpose code: 3	Long E 1426	SPECIES	CATCH/HOUR % OF TOT. C SAMP.NO.
FDEPTH: 119 119 BDEPTH: 119 119	Area code : 1 GearCond.code: Validity code:		Merluccius paradoxus, female Tetragonurus atlanticus	weight numbers 170.40 288 37.18 236
Towing dir: 355 Wire ou	t: 500 m Speed: 30 kn*		Trachyrinus scabrus Merluccius paradoxus, male	120.16 384 26.22 58.40 184 12.74 26.72 48 5.83 235
Sorted: 24 Kg Total cato	h: 268.62 CATCH/H	OUR: 1074.48	Todarodes sagittatus Nezumia milleri	20.96 64 4.57 19.76 640 4.31
SPECIES	CATCH/HOUR % OF weight numbers	F TOT. C SAMP.NO.	Etmopterus pusillus Deepwater fish mixture Selachophidium guentheri	11.68 16 2.55 11.04 2.41
Sufflogobius bibarbatus Merluccius capensis, female	721.60 133628 217.36 2904	67.16 20.23 221	Coelorinchus braueri Epigonus denticulatus	9.20 144 2.01 6.56 56 1.43 2.40 96 0.52
Merluccius capensis, male Total	135.52 2244	12.61 220	Hoplostethus cadenati	1.04 48 0.23
<b> </b>	1013.70	100.00	Total	458.32 100.00

start stop duration TIME :06:21:00 06:52:00 31 (m: LOG :2798.40 2799.80 1.40 FDEPTH: 402 397 BDEPTH: 402 397		: 3 : 2 ::	ATION:1398 S 2440 E 1336	start stop durati TIME :15:43:00 16:13:00 30 LOG :2855.70 2856.90 1.78 FDEPTH: 274 272 BDEPTH: 274 272	on (min) Purpose code:	2
Sorted: 141 Kg Total catch	: 360.22 C	ATCH/HOUR:	697.20	Sorted: 192 Kg Total ca	tch: 192.39 CAT	CH/HOUR: 384.78
SPECIES	CATCH/HOUR weight number		SAMP.NO.	SPECIES	CATCH/HOUR	% OF TOT. C SAMP.NO.
Merluccius paradoxus, female Merluccius capensis, female Helicolenus dactylopterus	279.29 6° 258.15 1! 39.35 30	37.03	241 239	Merluccius capensis, female	weight numbers 181.40 304	47.14 258
Merluccius paradoxus, male Merluccius capensis, male	36.74 1		240 238	Sufflogobius bibarbatus Helicolenus dactylopterus Merluccius capensis, male	76.80 5190 45.80 924	11.90
Epigonus denticulatus Galeus polli	11.42 40 11.38 1	1.64 11 1.63		Centrolophus niger Lophius upsicephalus	43.20 82 23.00 8 6.30 4	5.98 260
Lophius upsicephalus Selachophidium guentheri Nezumia milleri	7.65		237	Coelorinchus fasciatus Todarodes sagittatus	5.32 72 1.34 2	1.38
Todarodes sagittatus Krill		35 0.89 19 0.85 0.64		Galeus polli Trachurus capensis	0.84 22 0.46 2	0.22 0.12
Coelorinchus fasciatus Etmopterus pusillus	3.83	66 0.55 .0 0.50		Lepidopus caudatus Epigonus denticulatus Squilla acuelata calmani	0.16 8 0.10 2 0.06 2	0.03
Deania profundorum Raja confundens	3.02 2.01	6 0.43 6 0.29		Total	384.78	100.01
Trachyrinus scabrus Notacanthus sexspinis Coelorinchus braueri	1.51	6 0.23 25 0.22 0 0.03				
Total	697.19	100.01			,	
		220 TOT				PROJECT STATION:1404
start stop duration	YPE: BT No:1	PROJECT STA		DATE: 1/11/92 GEA Start Stop duration TIME :17:32:00 17:52:00 20	on	SITION:Lat S 2419 Long E 1343
TIME :08:46:00 09:19:00 33 (mi LOG :2814.30 2815.70 1.70	Area code	3: 2		LOG :2867.20 2868.00 1.10 FDEPTH: 303 299	<pre>(min) Purpose code:     Area code :     GearCond.code:</pre>	2
FDEPTH: 303 289 BDEPTH: 303 289	GearCond.code Validity code	::		BDEPTH: 303 299	Validity code: out: 950 m Speed: 32	
Towing dir: 350 Wire out Sorted: 169 Kg Total catch	: 950 m Speed: 2 : 653.09 CA	9 kn*10 TCH/HOUR: 1	187 44	Sorted: 149 Kg Total cat		CH/HOUR: 447.96
SPECIES	CATCH/HOUR	% OF TOT. C		SPECIES	. CATCH/HOUR	• OF TOT. C SAMP.NO.
Merluccius capensis, female	weight number 810.18 101	8 68.23	243	Merluccius capensis, female	weight numbers 224.10 237	
Merluccius capensis, male Coelorinchus fasciatus Helicolenus dactylopterus	253.82 36 47.20 122 31.64 37	2 3.97	242	Helicolenus dactylopterus Merluccius capensis, male	78.90 2073 45.00 51	17.61 10.05 261
MYCTOPHIDAE Lophius upsicephalus	15.27 13.98 1	1.29	245	Schedophilus huttoni Merluccius paradoxus, female Lophius upsicephalus	38.40 15 27.60 144 17.16 9	8.57 6.16 264
Todarodes sagittatus Galeus polli	6.11 2 4.36 13	2 0.51 8 0.37		Todarodes sagittatus Coelorinchus fasciatus	17.16 9 4.80 9 4.38 51	3.83 265 1.07 0.98
Merluccius paradoxus, female Sufflogobius bibarbatus Nezumia milleri	1.89 1 1.38 1.24 2	0.12	244	Merluccius paradoxus, male Krill	4.11 21 2.94	0.92 263 0.66
Squilla acuelata calmani Epigonus denticulatus	0.29 2	2 0.10 2 0.02 7 0.01		Galeus polli Epigonus denticulatus	0.42 9 0.15 12	0.09 0.03
Total -	1187.43	100.00		Total	447.96	100.00
start stop duration		PROJECT STA	FION:1400 S 2429 E 1353			
TIME :10:49:00 11:20:00 31 (mi. LOG :2827.80 2829.20 1.60 FDEPTH: 256 263 BDEPTH: 256 263 Towing dir: 360 Wire out Sorted: 113 Kg Total catch	Area code GearCond.code Validity code : 900 m Speed: 2	3 : 2 : : : 8 kn*10	317.74	DATE: 1/11/92 GEAR start stop duratic TIME :20:12:00 20:43:00 31 ( LOG :2887.20 2888.60 1.70 FDEPTH: 360 358 BDEPTH: 360 358	on (min) Purpose code: Area code : GearCond.code:	PROJECT STATION:1405 SITION:Lat S 2419 Long E 1324 3
LOG :2827.80 2829.20 1.60 FDEPTH: 256 263 BDEPTH: 256 263 Towing dir: 360 Wire out	Area code GearCond.code Validity code: 900 m Speed: 2 : 422.50 CA CATCH/ROUR	3 : 2 : : 8 kn*10 TCH/HOUR:	317.74	start stop duratio TIME :20:12:00 20:43:00 31 ( LOG :2887.20 2888.60 1.70 FDEPTH: 360 358 BDEPTH: 360 358 Towing dir: 335 Wire o	on (min) Purpose code: Area code : GearCond.code: Validity code: out:1050 m Speed: 30	SITION:Lat S 2419 Long E 1324 3 2 kn*10
LOG :2827.80 2829.20 1.60 FDEPTH: 256 263 BDEPTH: 256 263 Towing dir: 360 Wire out Sorted: 113 Kg Total catch SPECIES Merluccius capensis, female Merluccius capensis, male	Area code GearCond.code Validity code: 900 m Speed: 2: 422.50 CA CATCH/HOUR weight number 577.74 122 103.80 31	3 : 2 : : : : : : : : : : : : : : : : :	317.74	start stop duratio TIME :20:12:00 20:43:00 31 ( LOG :2887.20 2888.60 1.70 FDEPTH: 360 358 BDEPTH: 360 358	on (min) Purpose code: Area code : GearCond.code: Validity code: out:1050 m Speed: 30	SITION: Lat S 2419 Long E 1324 3 2
LOG :2827.80 2829.20 1.60 FDEPTH: 256 263 BDEPTH: 256 263 Towing dir: 360 Wire out Sorted: 113 Kg Total catch SPECIES Merluccius capensis, female Merluccius capensis, male Sufflogobius bibarbatus Helicolenus dactylopterus	Area code GearCond.code Validity code: 900 m Speed: 2 : 422.50 CA CATCH/HOUR weight number 577.74 122 103.80 31 97.41 1071 13.65 29	3 : 2 : : 8 kn*10 TCH/HOUR: : : \$ OF TOT. C 5 7 70.65 9 12.69 1 11.91 0 1.67	817.74 SAMP.NO. 247	start stop duration of the stop start stop s	on (min) Purpose code: Area code : GearCond.code: Validity code: out:1050 m Speed: 30 ch: 306.79 CATC  CATCH/HOUR weight numbers	SITION:Lat S 2419 Long E 1324 2 kn*10 cH/HOUR: 593.79
LOG :2827.80 2829.20 1.60 FDEPTH: 256 263 BDEPTH: 256 263 Towing dir: 360 Wire out  Sorted: 113 Kg Total catch  SPECIES  Merluccius capensis, female Merluccius capensis, male Sufflogobius bibarbatus Helicolenus dactylopterus Coelorinchus fasciatus Todarodes sagittatus Galeus polli	Area code GearCond.code Validity code 900 m Speed: 2 CATCH/HOUR Weight number 577.74 122 103.80 31 97.41 1071	3 : 2 : : 2 : : 8 kn*10	817.74 SAMP.NO. 247	### ### ##############################	on (Min) Purpose code: Area code : GearCond.code: Validity code: Out:1050 m Speed: 30 ch: 306.79 CATC  CATCH/HOUR Weight numbers 422.25 329 72.93 66	SITION:Lat S 2419 Long E 1324 3 2 kn*10 CH/HOUR: 593.79 4 OF TOT. C SAMP.NO. 71.11 267 12.28 266
LOG :2827.80 2829.20 1.60 FDEPTH: 256 263 BDEPTH: 256 263 Towing dir: 360 Wire out Sorted: 113 Kg Total catch SPECIES Merluccius capensis, female Merluccius capensis, male Sufflogobius bibarbatus Helicolenus dactylopterus Coelorinchus fasciatus Todarodes sagittatus	Area code GearCond.code Validity code: 900 m Speed: 2 : 422.50 CA CATCH/HOUR weight number 577.74 122 103.80 31 97.41 1071 13.65 29 12.99 24 10.61 2	3 : 2 : 2 : 8 kn*10 TCH/HOUR: 5	817.74 SAMP.NO. 247	start stop duration TIME: 20:12:00 20:43:00 31 (1.00 20:43:00 31 (	on (min) Purpose code: Area code: GearCond.code: Validity code: Out:1050 m Speed: 30 cch: 306.79 CATC CATCH/HOUR Weight numbers 422.25 329	SITION:Lat S 2419 Long E 1324 3 2 kn*10 CH/HOUR: 593.79  N OF TOT. C SAMP.NO. 71.11 267 12.28 266 4.59 2.86 268
LOG :2827.80 2829.20 1.60 FDEPTH: 256 263 BDEPTH: 256 263 Towing dir: 360 Wire out Sorted: 113 Kg Total catch  SPECIES  Merluccius capensis, female Merluccius capensis, male Sufflogobius bibarbatus Helicolenus dactylopterus Coelorinchus fasciatus Todarodes sagittatus Galeus polli Lepidopus caudatus	Area code GearCond.code Validity code: 900 m Speed: 2  422.50 CA CATCH/HOUR Weight number 577.74 122 103.80 31 97.41 1071 13.65 29 12.99 24 10.61 2 1.24 2 0.21 1:	3 : 2 : 2 : 8 kn*10 TCH/HOUR: 5	817.74 SAMP.NO. 247	start stop duration TIME: 20:12:00 20:43:00 31 (2887.20 2888.60 1.70 (28	on (min) Purpose code: Area code: GearCond.code: Validity code: Out:1050 m Speed: 30 cch: 306.79 CATCH/HOUR weight numbers 422.25 329 72.93 66 27.27 507 16.99 46 16.63 14.50 172 9.79 23	SITION:Lat S 2419 Long E 1324 3 2 kn*10 CH/HOUR: 593.79  NOF TOT. C SAMP.NO. 71.11 267 12.28 266 4.59 2.86 268 2.80 2.44 1.65
LOG :2827.80 2829.20 1.60 FDEPTH: 256 263 BDEPTH: 256 263 Towing dir: 360 Wire out Sorted: 113 Kg Total catch SPECIES Merluccius capensis, female Merluccius capensis, male Suffingobius biharbatus Helicolenus dactylopterus Coelorinchus fasciatus Todarodes sagittatus Galeus polli Lepidopus caudatus Squilla acuelata calmani Total	Area code GearCond.code Validity code: 900 m Speed: 2: 422.50 CA CARCH/HOUR Weight number 577.74 122 103.80 31 97.41 1071 13.65 29 12.99 24 10.61 2 1.24 2 0.21 1: 0.08	3 : 2 : 2 : 3 : 5 : 5 : 5 : 5 : 5 : 5 : 5 : 5 : 5	817.74 SAMP.NO. 247 246	start stop duration TIME: 20:12:00 20:43:00 31 (100 : 2287.20 20:43:00 31 (100 : 2287.20 20:43:00 31 (100 : 2287.20 20:43:00 358	on (min) Purpose code: Area code: GearCond.code: Validity code: Out:1050 m Speed: 30 CATCH/HOUR Weight numbers 422.25 329 72.93 66 27.27 507 16.63 14.50 172 9.79 23 7.57 252 2.92 43	SITION:Lat S 2419 Long E 1324 3 2 kn*10 CH/HOUR: 593.79  N OF TOT. C SAMP.NO. 71.11 267 12.12 266 4.59 2.86 2.80 2.44 1.65 1.27 0.49
LOG :2827.80 2829.20 1.60 FDEPTH: 256 263 BDEPTH: 256 263 Towing dir: 360 Wire out Sorted: 113 Kg Total catch  SPECIES  Merluccius capensis, female Merluccius capensis, male Sufflogobius bibarbatus Helicolenus dactylopterus Coelorinchus fasciatus Todarodes sagittatus Galeus polli Lepidopus caudatus Squilla acuelata calmani  Total  DATE: 1/11/92 GEAR TO	Area code GearCond.code Validity code: 900 m Speed: 2 422.50 CA CATCH/HOUR Weight number 577.74 122 103.80 31 97.41 1071 13.65 29 12.99 24 10.61 2 0.21 1.04 2 0.21 1.068	3 : 2 : 2 : : 2 : : 2 : : 2 : : 2 : : 2 : : 2 : : 2 : : 2 : 2 : : 2 :	817.74 SAMP.NO. 247 246	start stop duration TIME: 20:12:00 20:43:100 31 Case 1:00 20:43:100 31 Case 1:00 20:43:100 31 Case 1:00 20:43:100 31 Case 1:00 20:40:40 20	on (Min) Purpose code: Area code : GearCond.code: GearCond.code: Walidity code: Out:1050 m Speed: 30 ch: 306.79 CATC  CATCH/HOUR Weight numbers 422.25 329 72.93 66 27.27 507 16.99 46 16.63 14.50 172 9.79 23 7.57 252	SITION:Lat S 2419 Long E 1324 3 2 kn*10 CH/HOUR: 593.79  N OF TOT. C SAMP.NO. 71.11 267 12.28 266 4.59 2.86 2.80 2.44 1.65 1.27 0.49 0.19 0.19
LOG :2827.80 2829.20 1.60 FDEPTH: 256 263 BDEPTH: 256 263 Towing dir: 360 Wire out Sorted: 113 Kg Total catch  SPECIES  Merluccius capensis, female Merluccius capensis, male Sufflogobius bibarbatus Helicolenus dactylopterus Coelorinchus fasciatus Todarodes asgittatus Galeus polli Lepidopus caudatus Squilla acuelata calmani  Total  DATE: 1/11/92 GEAR Ty	Area code GearCond.code Validity code: 900 m Speed: 2 422.50 CA CATCH/HOUR Weight number 577.74 122 103.80 31 97.41 1071 13.65 29 12.99 24 10.61 2 0.21 1.04 2 0.21 1.068  817.73  (PE: BT No:1 Purpose code: Area code	3 : 2 : 2 : : 2 : : 2 : : 2 : : 2 : : 2 : : 2 : : 2 :	317.74  SAMP.NO. 247 246  PION:1401 S 2421	start stop duration TIME: 20:12:00 20:43:00 31 CLOG: 22887.20 2888.60 1.70 FDEPTH: 360 358 Towing dir: 335 Wire of Sorted: 127 Kg Total cat SPECIES  Merluccius capensis, female Merluccius capensis, male Helicolenus dactylopterus Merluccius paradoxus, female Krill Coelorinchus fasciatus Todarodes sagittatus Epigonus denticulatus Galeus polli MYCTOPHIDAE Nezumia milleri Selachophidium guentheri Ebinania costaecanarie	on (min) Purpose code: Area code: GearCond.code: Validity code: Validity code: Out:1050 m Speed: 30 ch: 306.79 CATC  CATCH/HOUR Weight numbers 422.25 329 72.93 66 27.27 507 16.99 46 16.63 14.50 172 9.79 23 7.57 252 2.92 43 1.12 112 1.12 56 0.50 19 0.19 10	SITION:Lat S 2419 Long E 1324 3 2 kn*10 CH/HOUR: 593.79  NOF TOT. C SAMP.NO. 71.11 267 12.28 266 4.59 2.86 268 2.80 2.44 1.65 1.27 0.49 0.19 0.19 0.19 0.08
LOG :2827.80 2829.20 1.60 FDEPTH: 256 263 BDEPTH: 256 263 Towing dir: 360 Wire out Sorted: 113 Kg Total catch  SPECIES  Merluccius capensis, female Merluccius capensis, male Sufflogobius bibarbatus Helicolenus dactylopterus Coelorinchus fasciatus Galeus polli Lepidopus caudatus Squilla acuelata calmani  Total  DATE: 1/11/92 GEAR TY start stop duration TIME :12:45:00 13:15:00 30 (mir LOG :2839.40 2840.80 1.64 FDEPTH: 196 200 BDEPTH: 196 200	Area code GearCond.code Validity code: 900 m Speed: 2  422.50 CA CATCH/HOUR Weight number 577.74 122 103.80 31 97.41 1071 13.65 29 12.99 24 10.61 2 1.24 2 0.21 1. 0.08  817.73  (PE: BT No:1 Posses code:	3 : 2 : 2 : 1 : 2 : 2 : 1 : 2 : 2 : 2 : 2	317.74  SAMP.NO. 247 246  PION:1401 S 2421	start stop duration TIME: 20:12:00 20:43:100 31 Case 1:00 20:43:100 31 Case 1:00 20:43:100 31 Case 1:00 20:43:100 31 Case 1:00 20:40:40 20	on (min) Purpose code: Area code: GearCond.code: Validity code: Validity code: Out:1050 m Speed: 30 ch: 306.79 CATC  CATCH/HOUR Weight numbers 422.25 329 72.93 66 27.27 507 16.99 46 16.63 14.50 172 9.79 23 7.57 252 2.92 43 1.12 112 1.12 56 0.50 19	SITION:Lat S 2419 Long E 1324 3 2 kn*10 CH/HOUR: 593.79  NOF TOT. C SAMP.NO. 71.11 267 12.28 266 4.59 2.86 268 2.80 2.44 1.65 1.27 0.49 0.19 0.19 0.08
LOG :2827.80 2829.20 1.60 FDEPTH: 256 263 BDEPTH: 256 263 Towing dir: 360 Wire out Sorted: 113 Kg Total catch  SPECIES  Merluccius capensis, female Merluccius capensis, male Sufflogobius bibarbatus Helicolenus dactylopterus Coelorinchus fasciatus Galeus polli Lepidopus caudatus Squilla acuelata calmani  Total  DATE: 1/11/92 GEAR TY start stop duration TIME :12:45:00 13:15:00 30 (mir LOG :2839.40 2840.80 1.64 FDEPTH: 196 200 BDEPTH: 196 200	Area code GearCond.code Validity code: 900 m Speed: 2 422.50 CA CATCH/HOUR Weight number 577.74 122 103.80 31 97.41 1071 13.65 29 12.99 24 10.61 2 0.21 1 0.08 817.73  PEE: BT No:1 PG Purpose code: Area code GearCond.code Validity code 750 m Speed: 3:	3 : 2 : : 2 : : 2 : : 8 kn*10	317.74  SAMP.NO. 247 246  PION:1401 S 2421	start stop duration TIME: 20:12:00 20:43:00 31 CLOG: 22887.20 2888.60 1.70 FDEPTH: 360 358 Towing dir: 335 Wire of Sorted: 127 Kg Total cat SPECIES  Merluccius capensis, female Merluccius capensis, male Helicolenus dactylopterus Merluccius paradoxus, female Krill Coelorinchus fasciatus Todarodes sagittatus Epigonus denticulatus Galeus polli MYCTOPHIDAE Nezumia milleri Selachophidium guentheri Ebinania costaecanarie	on (min) Purpose code: Area code: GearCond.code: Validity code: Validity code: Out:1050 m Speed: 30 ch: 306.79 CATC  CATCH/HOUR Weight numbers 422.25 329 72.93 66 27.27 507 16.99 46 16.63 14.50 172 9.79 23 7.57 252 2.92 43 1.12 112 1.12 56 0.50 19 0.19 10	SITION:Lat S 2419 Long E 1324 3 2 kn*10 CH/HOUR: 593.79  NOF TOT. C SAMP.NO. 71.11 267 12.28 266 4.59 2.86 268 2.80 2.44 1.65 1.27 0.49 0.19 0.19 0.19 0.08
LOG :2827.80 2829.20 1.60 FDEPTH: 256 263 BDEPTH: 256 263 Towing dir: 360 Wire out Sorted: 113 Kg Total catch  SPECIES  Merluccius capensis, female Merluccius capensis, male Sufflogobius bibarbatus Helicolenus dactylopterus Coelorinchus fasciatus Todarodes asgittatus Galeus polli Lepidopus caudatus Squilla acuelata calmani  Total  DATE: 1/11/92 GEAR TO Start stop duration TIME :12:45:00 13:15:00 30 (mir. LOG :2839.40 2840.80 1.64 FDEPTH: 196 200 BDEPTH: 196 200 Towing dir: 350 Wire out: Sorted: 74 Kg Total catch: SPECIES	Area code GearCond.code Validity code: 900 m Speed: 2  422.50 CA CATCH/HOUR Weight number 577.74 122 103.80 31 97.41 1071 13.65 29 12.99 24 10.61 2 1.24 2 0.21 1 0.08  817.73  PEE: BT No:1 PG Purpose code: Area code GearCond.code Validity code 750 m Speed: 3 225.63 CATCH/HOUR	3 : 2 : 2 : 1 : 2 : 2 : 3 : 3 : 3 : 3 : 3 : 3 : 3 : 3	SAMP.NO. 247 246  PION:1401 S 2421 E 1400	start stop duration TIME: 20:12:00 20:43:00 31 CLOG: 22887.20 2888.60 1.70 FDEPTH: 360 358 Towing dir: 335 Wire of Sorted: 127 Kg Total cat SPECIES  Merluccius capensis, female Merluccius capensis, male Helicolenus dactylopterus Merluccius paradoxus, female Krill Coelorinchus fasciatus Todarodes sagittatus Epigonus denticulatus Galeus polli MYCTOPHIDAE Nezumia milleri Selachophidium guentheri Ebinania costaecanarie	On (Min) Purpose code: Area code : GearCond.code: GearCond.code: Validity code: Out:1050 m Speed: 30 CATCH/HOUR Weight numbers 422.25 329 72.93 66 27.27 507 16.99 46 16.63 14.50 172 9.79 23 7.57 252 2.92 43 1.12 112 1.12 56 0.50 19 0.19 10	SITION:Lat S 2419 Long E 1324 3 2 kn*10 CH/HOUR: 593.79 4 OF TOT. C SAMP.NO. 71.11 267 12.28 266 4.59 2.86 268 2.80 2.44 1.65 1.27 0.49 0.19 0.19 0.19 0.08 0.03
LOG :2827.80 2829.20 1.60 FDEPTH: 256 263 BDEPTH: 256 263 TOWING dir: 360 Wire out Sorted: 113 Kg Total catch  SPECIES  Merluccius capensis, female Merluccius capensis, male Sufflogobius bibarbatus Helicolenus dactylopterus Coelorinchus fasciatus Todarodes asgittatus Galeus polli Lepidopus caudatus Squilla acuelata calmani  Total  DATE: 1/11/92 GEAR TY start stop duration TIME :12:45:00 13:15:00 30 (mir LOG :2839.40 2840.80 1.64 FDEPTH: 196 200 BDEPTH: 196 200 Towing dir: 350 Wire out: Sorted: 74 Kg Total catch: SPECIES  Merluccius capensis, female Merluccius capensis, female Merluccius capensis, female	Area code GearCond.code Validity code: 900 m Speed: 2 422.50 CA CATCH/HOUR Weight number 577.74 122 103.80 31 97.41 1071 13.65 29 12.99 24 10.61 2 1.24 2 0.21 1 0.08  817.73  Purpose code: Area code GearCond.code Validity code 750 m Speed: 3: 225.63 CA: CATCH/HOUR Weight number: 210.00 1491 140.00 124	3 : 2 : 2 : 2 : 3 : 5 : 8 kn*10	SAMP.NO. 247 246  PION:1401 S 2421 E 1400  151.26 SAMP.NO. 252 251	Start stop duration TIME: 20:12:100 20:43:100 31 LOG: 22887.20 2888.60 1.70 FDEPTH: 360 358 BDEPTH: 360 358 Towing dir: 335 Wire of the start of the	On (min) Purpose code: Area code: GearCond.code: Validity code: Out:1050 m Speed: 30  CATCH/HOUR Weight numbers 422.25 329 72.93 66 27.27 507 16.99 46 16.63 14.50 172 9.79 23 7.57 252 2.92 43 11.12 112 1.12 56 0.50 19 0.19 10	SITION:Lat S 2419 Long E 1324 3 2 kn*10 CH/HOUR: 593.79  N OF TOT. C SAMP.NO. 71.11 267 12.28 266 4.59 2.86 2.80 2.44 1.65 1.27 0.49 0.19 0.19 0.09 0.03 99.98  PROJECT STATION:1406 ITION:Lat S 2412
LOG :2827.80 2829.20 1.60 FDEPTH: 256 263 BDEPTH: 256 263 Towing dir: 360 Wire out Sorted: 113 Kg Total catch  SPECIES  Merluccius capensis, female Merluccius capensis, male Sufflogobius bibarbatus Helicolenus dactylopterus Coelorinchus fasciatus Todarodes asgittatus Galeus polli Lepidopus caudatus Squilla acuelata calmani  Total  DATE: 1/11/92 GEAR TY start stop duration TIME :12:45:00 13:15:00 30 (mir LOG :2839.40 2840.80 1.64 FDEPTH: 196 200 BDEPTH: 196 200 Towing dir: 350 Wire out: Sorted: 74 Kg Total catch: SPECIES  Merluccius capensis, female Merluccius capensis, male Merluccius capensis, male Merluccius capensis, male	Area code GearCond.code Validity code: 900 m Speed: 2 422.50 CA CATCH/HOUR Weight number 577.74 122 103.80 31 97.41 1071 13.65 29 12.99 24 10.61 2 1.24 2 0.21 1 0.08  817.73  Purpose code: Area code GearCond.code Validity code 750 m Speed: 3: 225.63 CA: CATCH/HOUR Weight number: 210.00 1491 140.00 1244 65.40 66	3 : 2 : 2 : 8 kn*10 TCH/HOUR:  * OF TOT. C  * 7 70.65 7 70.65 7 70.65 9 11.91 10.67 9 1.30 9 0.15 6 0.03 8 0.01 100.00  PROJECT STAT SSITION: Late Long 3 : 2 : kn*10 TCH/HOUR: 4 * OF TOT. C  * 46.54 31.02 14.49 5 5.45	SAMP.NO. 247 246  PION:1401 S 2421 E 1400  SSAMP.NO. 252 251 249 248	Start stop duration TIME: 20:12:00 20:43:00 31 CLOG: 2287.20 20:43:00 31 CLOG: 2287.20 20:43:00 31 CLOG: 2287.20 20:88.60 1.70 FDEPTH: 360 358 Towing dir: 335 Wire of Sorted: 127 Kg Total cat SPECIES  Merluccius capensis, female Merluccius capensis, male Helicolenus dactylopterus Merluccius paradoxus, female Krill Coelorinchus fasciatus Todarodes sagittatus Epigonus denticulatus Galeus polli MYCTOPHIDAE Nezumia milleri Selachophidium guentheri Ebinania costaecanarie  Total  DATE: 1/11/92 GEAR Start Stop duration TIME: 12:157:00 22:27:00 30 (CLOG: 2286.00 2897.40 1.70 CLOG: 22896.00 CLOG: 2297.00 2897.40	On (min) Purpose code: Area code: GearCond.code: Validity code: Validity code: Out:1050 m Speed: 30 CATCH/HOUR Weight numbers 422.25 329 72.93 66 27.27 507 16.99 46 16.63 14.50 172 9.79 23 7.57 252 2.92 43 1.12 112 112 1.12 56 0.50 0.19 10 593.78	SITION:Lat S 2419 Long E 1324  3 2  kn*10 CH/HOUR: 593.79  4 OF TOT. C SAMP.NO.  71.11 267 12.28 266 4.59 2.86 268 2.80 2.44 1.65 1.27 0.49 0.19 0.19 0.09 0.03  99.98  PROJECT STATION:1406 ITION:Lat S 2412 Long E 1319
LOG :2827.80 2829.20 1.60 FDEPTH: 256 263 BDEPTH: 256 263 Towing dir: 360 Wire out Sorted: 113 Kg Total catch  SPECIES  Merluccius capensis, female Merluccius capensis, male Sufflogobius bibarbatus Helicolenus dactylopterus Coelorinchus fasciatus Todarodes sagittatus Galeus polli Lepidopus caudatus Squilla acuelata calmani Total  DATE: 1/11/92 GEAR T start stop duration TIME :12:45:00 13:15:00 30 (mir LOG :2839.40 2840.80 1.64 FDEPTH: 196 200 BDEPTH: 196 200 BDEPTH: 196 200 Sorted: 74 Kg Total catch: SPECIES  Merluccius capensis, female Merluccius capensis, female Merluccius capensis, female Merluccius capensis, male Mustroglossus microlepis Chelidonichthys capensis Galeus polli	Area code GearCond.code Validity code: 900 m Speed: 2: 422.50 CA CARCH/HOUR Weight number 577.74 122 103.80 31 97.41 1071 13.65 29 12.99 24 10.61 2 1.24 2 0.21 1: 0.08  817.73  PEE: BT No:1 PG Purpose code: Area code GearCond.code Validity code 750 m Speed: 3: 225.63 CA: CATCH/HOUR Weight number: 210.00 1491 140.00 1244 655.40 66	3 : 2 : 2 : 2 : 3 : 5 : 8 kn*10	SAMP.NO.  247 246  CION:1401 S 2421 E 1400  SAMP.NO.  252 251 249	Start stop duration TIME: 20:12:00 20:43:00 31 CLOG: 2287.20 20:43:00 31 CLOG: 2287.20 20:43:00 31 CLOG: 2287.20 20:43:00 358 CLOG: 360 358 CL	On (min) Purpose code: Area code : GearCond.code: Validity code: Validity code: Out:1050 m Speed: 30 CATCH/HOUR Weight numbers 422.25 329 72.93 66 27.27 507 16.99 46 16.63 14.50 172 9.79 23 7.57 252 2.92 43 1.12 112 112 112 56 0.50 19 0.19 10 593.78	SITION:Lat S 2419 Long E 1324 3 2 kn*10 CH/HCUR: 593.79  N OF TOT. C SAMP.NO. 71.11 267 12.28 266 4.59 2.86 2.80 2.44 1.65 1.27 0.49 0.19 0.19 0.19 0.08 0.03  99.98  PROJECT STATION:1406 ITION:Lat S 2412 Long E 1319 3 2
LOG :2827.80 2829.20 1.60 FDEPTH: 256 263 BDEPTH: 256 263 Towing dir: 360 Wire out Sorted: 113 Kg Total catch  SPECIES  Merluccius capensis, female Merluccius capensis, male Sufflogobius bibarbatus Helicolenus dactylopterus Coelorinchus fasciatus Todarodes sagittatus Galeus polli Lepidopus caudatus Squilla acuelata calmani Total  DATE: 1/11/92 GEAR T start stop duration TIME :12:45:00 13:15:00 30 (mir LOG :2839.40 2840.80 1.64 FDEPTH: 196 200 BDEPTH: 196 200 BDEPTH: 196 200 Sorted: 74 Kg Total catch: SPECIES  Merluccius capensis, female Merluccius capensis, female Merluccius capensis, female Merluccius capensis, male Merluccius capensis (saleus polli Sufflogobius bibarbatus	Area code GearCond.code Validity code: 900 m Speed: 2: 422.50 CA CARCH/HOUR Weight number 577.74 122 103.80 31 97.41 1071 13.65 29 12.99 24 10.61 2 1.24 2 0.21 1: 0.08 817.73  (PE: BT No:1 PG Purpose code: Area code GearCond.code Validity code 750 m Speed: 3: 225.63 CA: CATCH/HOUR Weight number: 210.00 1491 140.00 1241 65.40 66 24.60 20 7.48 11 2.66 11 0.70 11	3 : 2 : 2 : 2 : 3 : 5 : 6 : 6 : 6 : 6 : 6 : 6 : 6 : 6 : 6	SAMP.NO. 247 246  PION:1401 S 2421 E 1400  SSAMP.NO. 252 251 249 248	Start stop duration TIME: 20:12:00 20:43:00 31 CLOG: 2287.20 20:43:00 31 CLOG: 2287.20 20:43:00 31 CLOG: 2287.20 20:43:00 358 CLOG: 360 358 CL	On (MIR) Purpose code: Area code: GearCond.code: Validity code: Validity code: Out:1050 m Speed: 30 CATCH/HOUR Weight numbers 422.25 329 72.93 66 27.27 507 16.99 46 16.63 14.50 172 9.79 23 7.57 252 2.92 43 1.12 112 56 0.50 19 0.19 10 593.78	SITION:Lat S 2419 Long E 1324 3 2 kn*10 CH/HCUR: 593.79  N OF TOT. C SAMP.NO. 71.11 267 12.28 266 4.59 2.86 2.80 2.44 1.65 1.27 0.49 0.19 0.19 0.19 0.08 0.03  99.98  PROJECT STATION:1406 ITION:Lat S 2412 Long E 1319 3 2
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LOG :2827.80 2829.20 1.60 FDEPTH: 256 263 BDEPTH: 256 263 Towing dir: 360 Wire out Sorted: 113 Kg Total catch  SPECIES  Merluccius capensis, female Merluccius capensis, male Sufflogobius bibarbatus Relicolenus dactylopterus Coelorinchus fasciatus Todarodes sagittatus Galeus polli Lepidopus caudatus Squilla acuelata calmani  Total  DATE: 1/11/92 GEAR TY start stop duration TIME :12:45:00 13:15:00 30 (mir LOG :2839.40 2840.80 1.64 FDEPTH: 196 200 BDEPTH: 196 200 BDEPTH: 196 200 Towing dir: 350 Wire out: Sorted: 74 Kg Total catch: SPECIES  Merluccius capensis, female Merluccius capensis, male Mustroglossus microlepis Chelidonichthys capensis Galeus polli Sufflogobius bibarbatus  Total  DATE: 1/11/92 GEAR TY	Area code GearCond.code Validity code: 900 m Speed: 2 422.50 CA CATCH/HOUR Weight number 577.74 122 103.80 31 97.41 1071 13.65 29 12.99 24 10.61 2 0.21 1 0.08 817.73  Purpose code: Area code GearCond.code Validity code 750 m Speed: 3: 225.63 CA: CATCH/HOUR Weight number: 210.00 1491 140.00 124 65.40 6 24.60 12.66 11 0.70 15	3 : 2 : 2 : 2 : 2 : 3 : 3 : 3 : 3 : 3 :	SAMP.NO.  247 246  CION:1401 S 2421 E 1400  CION:251 249 248 250	Start stop duration TIME: 20:12:00 20:43:00 31 CLOG: 22887.20 2888.60 1.70 FDEPTH: 360 358 Towing dir: 335 Wire of Sorted: 127 kg Total cates of the start of the	On (min) Purpose code: Area code: GearCond.code: Validity code: Validity code: Out:1050 m Speed: 30 CATCH/HOUR Weight numbers 422.25 329 72.93 66 27.27 507 16.99 46 16.63 14.50 172 9.79 23 7.57 252 2.92 43 1.12 1.12 56 0.50 19 0.19 10 593.78	EITION:Lat S 2419 Long E 1324 3 2 kn*10 CH/HCUR: 593.79  N OF TOT. C SAMP.NO.  71.11 267 12.28 266 4.59 2.86 2.80 2.44 1.655 1.27 0.49 0.19 0.19 0.09 0.03  99.98  PROJECT STATION:1406 ITION:Lat S 2412 Long E 1319 3 2 kn*10 H/HCUR: 247.04  N OF TOT. C SAMP.NO.
LOG :2827.80 2829.20 1.60 FDEPTH: 256 263 BDEPTH: 256 263 Towing dir: 360 Wire out Sorted: 113 Kg Total catch  SPECIES  Merluccius capensis, female Merluccius capensis, male Sufflogobius bibarbatus Relicolenus dactylopterus Coelorinchus fasciatus Todarodes sagittatus Galeus polli Lepidopus caudatus Squilla acuelata calmani  Total  DATE: 1/11/92 GEAR TY start stop duration TIME :12:45:00 13:15:00 30 (mir LOG :2839.40 2840.80 1.64 FDEPTH: 196 200 BDEPTH: 196 200 BDEPTH: 196 200 Sorted: 74 Kg Total catch: SPECIES  Merluccius capensis, female Merluccius capensis, male Mustroglossus microlepis Chelidonichthys capensis Galeus polli Sufficopobius bibarbatus  Total  DATE: 1/11/92 GEAR TY start stop duration Total  DATE: 1/11/92 GEAR TY start stop duration Total	Area code GearCond.code Validity code: 900 m Speed: 2  : 422.50 CA CATCH/HOUR Weight number 577.74 122 103.80 31 97.41 1071 13.65 29 12.99 24 10.61 2 1.24 2 0.21 1 0.08  817.73  PEE: BT No:1 PG CATCH/HOUR Weight number 200.00 1491 CATCH/HOUR Weight number 200.00 1491 10.01 1244 65.40 66 24.60 20 7.48 11 26.66 11 0.70 1-10 0.42 56  PE: BT No:1 PG PUTPOSE code:	3 : 2 : 2 : 2 : 2 : 2 : 3 : 3 : 3 : 3 :	SAMP.NO. 247 246  CION:1401 S 2421 E 1400  ISS. 2421 E 1400  ISS. 251 249 248 250	Start stop duration TIME: 20:12:00 20:43:100 31 Correct September 1:20:12:00 20:43:100 31 Correct September 2:20:12:00 20:43:100 31 Correct September 3:20:20:20:20:20:20:20:20:20:20:20:20:20:	On (Min) Purpose code: Area code: GearCond.code: Validity code: Validity code: Out:1050 m Speed: 30  CATCH/HOUR Weight numbers 422.25 329 72.93 66 27.27 507 16.99 46 16.63 14.50 172 9.79 23 7.57 252 2.92 43 1.12 112 1.12 56 0.50 19 0.19 10  TYPE: BT No:1 POS n min) Purpose code: Area code: GearCond.code: Validity code: Ut:1250 m Speed: 32  CATCH/HOUR Weight numbers 154.00 340 64.50 176 64.50 176 66.50 1	EITION:Lat S 2419 Long E 1324  3 2  kn*10 CH/HOUR: 593.79  % OF TOT. C SAMP.NO.  71.11 267 12.28 266 4.59 2.86 268 2.80 2.44 1.65 1.27 0.49 0.19 0.19 0.09 0.03  99.98  PROJECT STATION:1406 ITION:Lat S 2412 Long E 1319 3 2  kn*10 H/HOUR: 247.04  % OF TOT. C SAMP.NO. 62.34 270 26.11 4.86 271
LOG :2827.80 2829.20 1.60 FDEPTH: 256 263 BDEPTH: 256 263 TOWING dir: 360 Wire out Sorted: 113 Kg Total catch  SPECIES  Merluccius capensis, female Merluccius capensis, male Sufflogobius bibarbatus Helicolenus dactylopterus Coelorinchus fasciatus Todarodes sagittatus Galeus polli Lepidopus caudatus Squilla acuelata calmani  Total  DATE: 1/11/92 GEAR T)	Area code GearCond.code Validity code: 900 m Speed: 2 422.50 CA CATCH/HOUR Weight number 577.74 122 103.80 31 97.41 1071 13.65 29 12.99 24 10.61 2 1.24 2 0.21 1 0.08  817.73  CPE: BT No:1 PC The propose code: Area code GearCond.code Validity code 750 m Speed: 3: 225.63 CA CATCH/HOUR Weight number: 210.00 1491 140.00 124 65.40 66 24.60 26 7.48 16 0.70 12 451.26  PE: BT No:1 PC PE: BT No:1 PC P	3 : 2 : 2 : 2 : 3 : 3 : 2 : 3 : 3 : 3 :	SAMP.NO.  247 246  CION:1401 S 2421 E 1400  CION:251 249 248 250	Start stop duration TIME: 20:12:00 20:43:100 31 Correct September 1: 20:12:00 20:43:100 31 Correct September 2: 20:12:00 20:43:100 31 Correct September 3: 20:20 Correct September 3: 2	On (min) Purpose code: Area code: GearCond.code: Validity code: Validity code: Out:1050 m Speed: 30  CATCH/HOUR weight numbers 422.25 329 72.93 66 27.27 507 16.99 46 16.63 14.50 172 9.79 23 7.57 252 2.92 43 1.12 112 1.12 56 0.50 19 0.19 10  593.78  TYPE: BT No:1 POS n min) Purpose code: Area code: GearCond.code: Validity code: Ut:1250 m Speed: 32 ch: 123.52 CATC  CATCH/HOUR veight numbers 154.00 340 64.50 176 65.00 10 4.66 10 340 66.50 176 5.00 10 4.66	EITION:Lat S 2419 Long E 1324  3 2  kn*10 CH/HOUR: 593.79  4 OF TOT. C SAMP.NO.  71.11 267 12.28 266 4.59 2.86 268 2.80 2.44 1.65 1.27 0.49 0.19 0.19 0.09 0.03  99.98  PROJECT STATION:1406 ITION:Lat S 2412 Long E 1319 3 2  kn*10 H/HOUR: 247.04 4 OF TOT. C SAMP.NO. 62.34 270 26.11 4.86 271 2.02 269 1.89
LOG :2827.80 2829.20 1.60 FDEPTH: 256 263 BDEPTH: 256 263 TOWING dir: 360 Wire out Sorted: 113 Kg Total catch  SPECIES  Merluccius capensis, female Merluccius capensis, male Sufflogobius bibarbatus Helicolenus dactylopterus Coelorinchus fasciatus Todarodes sagittatus Galeus polli Lepidopus caudatus Squilla acuelata calmani  Total  DATE: 1/11/92 GEAR TY start stop duration TIME :12:45:00 13:15:00 30 (mir LOG :2839.40 2840.80 1.64 FDEPTH: 196 200 BDEPTH: 196 200 BDEPTH: 196 200 BDEPTH: 196 200 Sorted: 74 Kg Total catch: SPECIES  Merluccius capensis, female Merluccius capensis, male Merluccius capensis, male Merluccius capensis, male Austroglossus microlepis Chelidonichthys capensis Galeus polli Sufficopobius bibarbatus  Total  DATE: 1/11/92 GEAR TY start stop duration Time :14:06:00 14:36:00 30 (mir LOG :2846.10 2847.50 1.60 FDEPTH: 228 228 BDEPTH: 228 228 Towing dir: 350 Wire out:	Area code GearCond.code Validity code: 900 m Speed: 2 422.50 CA CATCH/HOUR Weight number 577.74 122 103.80 31 97.41 1071 13.65 29 12.99 24 10.61 2 1.24 2 0.21 1 0.08  817.73  (PE: BT No:1 PC ATEA CODE GEARCOND.code Validity code 750 m Speed: 3: 225.63 CA* CATCH/HOUR Weight number: 210.00 124 65.40 66 24.60 21 7.48 11 2.66 11 0.70 156 451.26  PE: BT No:1 PC  PE: BT No:1 PC  ATEA CATCH/HOUR Weight number: 210.00 124 65.40 66 24.60 21 7.48 11 2.66 11 0.70 156  PE: BT No:1 PC	3 : 2 : 2 : 2 : 2 : 3 : 3 : 3 : 3 : 3 :	SAMP.NO. 247 246  PION:1401 S 2421 E 1400  PSSAMP.NO. 252 251 249 248 250  PSSAMP.NO. 252 251 249 248 250	Start stop duration TIME: 20:12:00 20:43:100 31 CLOG: 22887.20 2888.60 1.70 FDEPTH: 360 358 Towing dir: 335 Wire of Sorted: 127 Kg Total cat SPECIES  Merluccius capensis, female Merluccius capensis, make Helicolenus dactylopterus Merluccius paradoxus, female Krill Coelorinchus fasciatus Fodarodes sagittatus Epigonus denticulatus Galeus polli MYCTOPHIDAE Nezumia milleri Selachophidium guentheri Ebinania costaecanarie  Total  DATE: 1/11/92 GEAR START Stop duration TIME: 12:157:00 22:27:00 30 (CLOG: 2896.00 2897.40 1.70 FDEPTH: 460 460 BDEPTH: 460	On (min) Purpose code: Area code : GearCond.code: Validity code: Validity code: Out:1050 m Speed: 30 CATCH/HOUR Weight numbers 422.25 329 72.93 66 27.27 507 16.99 46 16.63 14.50 172 9.79 23 7.57 252 2.92 43 1.12 112 56 0.50 19 10 593.78 CATCH/HOUR Weight numbers 154.00 340 64.50 176 12.00 6 5.00 10 10 10 10 10 10 10 10 10 10 10 10 1	EITION:Lat S 2419 Long E 1324  3 2  kn*10 CH/HOUR: 593.79  4 OF TOT. C SAMP.NO.  71.11 267 12.28 266 4.59 2.86 268 2.80 2.44 1.65 1.27 0.49 0.19 0.19 0.09 0.03  99.98  PROJECT STATION:1406 ITION:Lat S 2412 Long E 1319 3 2  kn*10 H/HOUR: 247.04 4 OF TOT. C SAMP.NO. 62.34 270 26.11 4.86 271 2.02 269 1.89 1.08 272 0.57
LOG :2827.80 2829.20 1.60 FDEPTH: 256 263 BDEPTH: 256 263 TOWING dir: 360 Wire out Sorted: 113 Kg Total catch  SPECIES  Merluccius capensis, female Merluccius capensis, male Sufflogobius bibarbatus Helicolenus dactylopterus Coelorinchus fasciatus Todarodes sagittatus Galeus polli Lepidopus caudatus Squilla acuelata calmani  Total  DATE: 1/11/92 GEAR T)	Area code GearCond.code Validity code: 900 m Speed: 2  422.50 CA CATCH/HOUR Weight number 577.74 122 103.80 31 97.41 1071 13.65 29 12.99 24 10.61 2 1.24 2 0.21 1 0.08  817.73  PEE: BT No:1 PC GEARCONd.code Validity code 750 m Speed: 3: 225.63 CA' CATCH/HOUR Weight number 210.00 1244 65.40 66 24.60 21 24.66 14 0.70 156 0.742 56  PE: BT No:1 PC  PUTPOSE code: Area code Validity code 7.48 11 2.66 14 0.70 156 0.42 56  PE: BT No:1 PC  PUTPOSE code: Area code Validity code 7.48 11 2.66 14 0.70 156 0.742 56  PE: BT No:1 PC  PUTPOSE code: Area code Validity code 7.48 16 0.70 17 0.42 56  PE: BT No:1 PC  PUTPOSE code: Area code SearCond.code: Area code Validity code 7.48 16 0.70 17 0.42 56  PEE: BT No:1 PC  PUTPOSE code: Area code Rear code Rear code SearCond.code: Validity code: Rear code 800 m Speed: 33	3 : 2 : 2 : 2 : 2 : 3 : 3 : 2 : 3 : 3 :	SAMP.NO. 247 246  PION:1401 S 2421 E 1400  SSAMP.NO. 252 251 249 248 250  PION:1402 S 2420 E 1357	Start stop duration TIME: 20:12:00 20:43:100 31 COG: 22887.20 2888.60 1.70 FDEPTH: 360 358 Towing dir: 335 Wire of Sorted: 127 Kg Total cat SPECIES  Merluccius capensis, female Merluccius capensis, male Helicolenus dactylopterus Merluccius paradoxus, female Krill Coelorinchus fasciatus Fodarodes sagittatus Epigonus denticulatus Galeus polli MYCTOPHIDAE Nezumia milleri Selachophidium guentheri Ebinania costaecanarie  Total  DATE: 1/11/92 GEAR START Stop duration TIME: 12:157:00 22:27:00 30 (CG: 2896.00 2897.40 1.70 FDEPTH: 460 460 BDEPTH: 460 460 BDEPTH: 460 460 BDEPTH: 460 460 Towing dir: 335 Wire of Sorted: 50 Kg Total cat: SPECIES  Merluccius paradoxus, female Trachyrinus scabrus Merluccius capensis, female Merluccius paradoxus, male Todarodes sagittatus Lophius upsicephalus Helicolenus dactylopterus MYCTOPHIDAE Beryx splendens Epigonus denticulatus	On (min) Purpose code: Area code: GearCond.code: Validity code: Validity code: Out:1050 m Speed: 30 CATCH/HOUR Weight numbers 1422.25 329 72.93 66 27.27 507 16.99 46 16.63 14.50 172 9.79 23 7.57 252 2.92 43 1.12 112 112 56 0.50 19 0.19 10 593.78  TYPE: BT No:1 POS n min) Purpose code: Area code: GearCond.code: Validity code: Uut:1250 m Speed: 32 CATCH/HOUR Weight numbers 154.00 340 64.50 176 12.00 66 5.00 10 4.66 10 2.66 2 1.40 6 6 130 0.68 2 0.56 130 0.68 2 0.56 170 180 176 12.00 66 130 0.68 2 0.56 170 180 180 180 180 180 180 180 180 180 18	SITION:Lat S 2419 Long E 1324 3 2 kn*10 CH/HOUR: 593.79 4 OF TOT. C SAMP.NO. 71.11 267 12.28 266 4.59 2.86 268 2.80 2.44 1.65 1.27 0.49 0.19 0.19 0.09 0.19 0.09 0.19 0.08 0.03 99.98  PROJECT STATION:1406 ITION:Lat S 2412 Long E 1319 3 2 kn*10 H/HOUR: 247.04 4 OF TOT. C SAMP.NO. 62.34 270 26.11 4.86 271 2.02 269 1.89 272 0.57 0.35 0.28 0.23
LOG :2827.80 2829.20 1.60 FDEPTH: 256 263 BDEPTH: 256 263 TOWING dir: 360 Wire out Sorted: 113 Kg Total catch  SPECIES  Merluccius capensis, female Merluccius capensis, male Sufflogobius bibarbatus Helicolenus dactylopterus Coelorinchus fasciatus Todarodes sagittatus Galeus polli Lepidopus caudatus Squilla acuelata calmani Total  DATE: 1/11/92 GEAR TY start stop duration TIME :12:45:00 13:15:00 30 (mir LOG :2839.40 2840.80 1.64 FDEPTH: 196 200 BDEPTH: 196 200 BDEPTH: 196 200 Sorted: 74 Kg Total catch: SPECIES  Merluccius capensis, female Total  DATE: 1/11/92 GEAR TY START Stop duration TIME :14:06:00 14:36:00 30 (mir TIME :14:06:00 14:36:00 30 (mir LOG :2846:10 2847.50 1.60 FDEPTH: 228 228 TOWing dir: 350 Wire out: Sorted: 109 Kg Total catch: SPECIES Sufflogobius bibarbatus	Area code GearCond.code Validity code: 900 m Speed: 2 422.50 CA CATCH/HOUR Weight number 577.74 122 103.80 31 97.41 1071 13.65 29 12.99 24 10.61 2 1.24 2 0.21 1 0.08  817.73  (PE: BT No:1 PC ATEA CODE GEARCOND.code Validity code 750 m Speed: 3: 225.63 CA* CATCH/HOUR Weight number: 210.00 124 65.40 66 24.60 21 7.48 11 2.66 11 0.70 156 451.26  PE: BT No:1 PC  PE: BT No:1 PC  ATEA CATCH/HOUR Weight number: 210.00 124 65.40 66 24.60 21 7.48 11 2.66 11 0.70 156  PE: BT No:1 PC	3 : 2 : 2 : 2 : 2 : 2 : 3 : 3 : 3 : 3 :	SAMP.NO. 247 246  PION:1401 S 2421 E 1400  SSAMP.NO. 252 251 249 248 250  PION:1402 S 2420 E 1357	start stop duration TIME : 20:12:00 20:43:100 31 1   LOG :2887.20 2888.60 1.70 6   FDEPTH: 360 358   Towing dir: 335 Wire of Sorted: 127 kg Total cat   SPECIES  Merluccius capensis, female   Merluccius capensis, male   Herluccius capensis, male   Herluccius capensis, male   Herluccius capensis, male   Herluccius paradoxus, female   Krill   Coelorinchus fasciatus   Todarodes sagittatus   Epigonus denticulatus   Galeus polli   MYCTOPHIDAE   Nezumia milleri   Selachophiddum guentheri   Ebinania costaecanarie   Total    DATE: 1/11/92	On (MIR) Purpose code: Area code: GearCond.code: Validity code: Validity code: Out:1050 m Speed: 30  CATCH/HOUR Weight numbers 422.25 329 72.93 66 27.27 507 16.99 46 16.63 14.50 172 9.79 23 7.57 252 2.92 43 1.12 112 112 112 112 112 112 112 112 11	EITION:Lat S 2419 Long E 1324 3 2 kn*10 CH/HOUR: 593.79 4 OF TOT. C SAMP.NO. 71.11 267 12.28 266 4.59 2.86 268 2.80 2.44 1.65 1.27 0.49 0.19 0.19 0.09 0.03 99.98  PROJECT STATION:1406 ITION:Lat S 2412 Long E 1319 3 2 kn*10 H/HOUR: 247.04 4 OF TOT. C SAMP.NO. 62.34 270 26.11 4.86 271 2.02 269 1.89 1.08 272 0.57 0.28 0.23 0.11 0.08
LOG :287.80 2829.20 1.60 FDEPTH: 256 263 BDEPTH: 256 263 BDEPTH: 256 263 Towing dir: 360 Wire out Sorted: 113 Kg Total catch  SPECIES  Merluccius capensis, female Merluccius capensis, male Sufflogobius bibarbatus Helicolenus dactylopterus Coelorinchus fasciatus Todarodes sagittatus Galeus polli Lepidopus caudatus Squilla acuelata calmani Total  DATE: 1/11/92 GEAR TI Start stop duration TIME :12:45:00 13:15:00 30 (mir LOG :2839.40 2840.80 1.64 FDEPTH: 196 200 BDEPTH: 196 200 BDEPTH: 196 200 Sorted: 74 Kg Total catch: SPECIES  Merluccius capensis, female Merluccius capensis Total  DATE: 1/11/92 GEAR TY Start stop duration TIME :14:06:00 14:36:00 30 (mir LOG :2846.10 2847.50 1.60 FDEPTH: 228 228 BDEPTH: 228 228 Towing dir: 350 Wire out: Sorted: 109 Kg Total catch: SPECIES  Sufflogobius bibarbatus Merluccius capensis, female Merluccius capensis, female	Area code GearCond.code Validity code: 900 m Speed: 2: 422.50 CA CATCH/HOUR Weight number 577.74 122 103.80 31 97.41 1071 13.65 29 12.99 24 10.61 2 1.24 2 0.21 1: 0.08 817.73  (PE: BT No:1 P. Purpose code: Area code GearCond.code Validity code: GearCond.code Validity code: 10.00 149 140.00 124 65.40 67 624.60 20 7.48 11 2.66 11 0.70 14 2.66 11 0.70 14 2.66 16 0.70 17 0.42 56  PE: BT No:1 P. Purpose code: Area code GearCond.code Validity code: GearCond.code Validity code: GearCond.code 21.26 12 21.26 22 21.20 23 21.20 23 21.20 23 21.20 24 21.20 25	3 : 2 : 2 : 2 : 2 : 2 : 3 : 3 : 2 : 3 : 3	SAMP.NO. 247 246  PION:1401 S 2421 E 1400  SSAMP.NO. 252 251 249 248 250  PION:1402 S 2420 E 1357	start stop duration TIME : 20:12:00 20:43:00 31 Cog : 2087.20 20:43:00 31 Cog : 2088.60 1.70 FDEPTH: 360 358 Towing dir: 335 Wire of Sorted: 127 Kg Total cat SPECIES  Merluccius capensis, female Merluccius capensis, male Helicolenus dactylopterus Merluccius paradoxus, female Krill Coelorinchus fasciatus Todarodes sagittatus Epigonus denticulatus Galeus polli MYCTOPHIDAE Nezumia milleri Selachophidium guentheri Ebinania costaecanarie  Total  DATE: 1/11/92 GERM Start stop duration Time :21:57:00 22:27:00 30 (LOG :2896.00 2897.40 1.70 FDEPTH: 460 460 BDEPTH: 460 460 SDEPTH: 460 460 SDEPTH: 460 460 SDEPTH: 460 460 SORTER SPECIES  Merluccius paradoxus, female Trachyrinus scabrus Merluccius capensis, female Merluccius paradoxus, male Todarodes sagittatus Lophius upsicephalus Helicolenus dactylopterus MYCTOPHIDAE Beryx splendens Epigonus denticulatus Nezumia milleri	On (min) Purpose code: Area code: GearCond.code: Validity code: Validity code: Out:1050 m Speed: 30  CATCH/HOUR Weight numbers 422.25 329 72.93 66 27.27 507 16.99 46 16.63 14.50 172 9.79 23 7.57 252 2.92 43 1.12 112 1.12 56 0.50 19 0.19 10  TYPE: BT No:1 POS nmin) Purpose code: Area code: GearCond.code: Validity code: V	EITION: Lat S 2419 Long E 1324  3 2  kn*10 CH/HOUR: 593.79  4 OF TOT. C SAMP.NO.  71.11 267 12.28 266 4.59 2.86 268 2.80 2.44 1.65 1.27 0.49 0.19 0.19 0.19 0.09 0.03  99.98  PROJECT STATION:1406 ITION: Lat S 2412 Long E 1319 3 2  kn*10 H/HOUR: 247.04 4 OF TOT. C SAMP.NO. 62.34 270 26.11 4.86 271 2.02 269 1.08 272 0.57 0.35 0.28 0.23 0.11
LOG :287.80 2829.20 1.60 FDEPTH: 256 263 BDEPTH: 256 263 BDEPTH: 256 263 Towing dir: 360 Wire out Sorted: 113 Kg Total catch  SPECIES  Merluccius capensis, female Merluccius capensis, male Suffiogobius bibarbatus Helicolenus dactylopterus Coelorinchus fasciatus Todarodes sagittatus Galeus polli Lepidopus caudatus Squilla acuelata calmani Total  DATE: 1/11/92 GEAR TI Start stop duration TIME :12:45:00 13:15:00 30 (mir LOG :2839.40 2840.80 1.64 FDEPTH: 196 200 BDEPTH: 196 200 BDEPTH: 196 200 SORTED TOWING dir: 350 Wire out: Sorted: 74 Kg Total catch: SPECIES Merluccius capensis, female Merluccius capensis, female Merluccius capensis, male Austroglossus microlepis Chelidonichthys capensis Caleus polli Sufficeobius bibarbatus Total  DATE: 1/11/92 GEAR TY start stop duration TIME :14:06:00 14:36:00 30 (mir LOG :2846.10 2847.50 1.60 FDEPTH: 228 228 BDEPTH: 228 228 Towing dir: 350 Wire out: Sorted: 109 Kg Total catch: SPECIES Sufflogobius bibarbatus Merluccius capensis, female Merluccius capensis, male Coelorinchus fasciatus Todarodes sagittatus	Area code GearCond.code Validity code: 900 m Speed: 2: 422.50 CA CATCH/HOUR Weight number 577.74 122 103.80 31 97.41 1071 13.65 29 12.99 24 10.61 2 1.24 2 0.21 1: 0.08 817.73  (PE: BT No:1 P. Purpose code: Area code GearCond.code Validity code: 65.40 64 CATCH/HOUR Weight number: 210.00 1491 140.00 124 65.40 67 24.60 27 7.48 11 2.66 11 0.70 14 2.66 11 0.70 14 2.66 16 0.70 17 0.42 56  PE: BT No:1 P. Purpose code: Area code GearCond.code Validity code: SearCond.code 211.26 21 211.20 CATCH/HOUR Weight number: 212.80 1209901 211.20 CATCH/HOUR Weight number: 212.80 120901 314.40 537 49.00 338 9.12 112 8.80 322	3 : 2 : 2 : 2 : 2 : 2 : 3 : 3 : 2 : 3 : 3	SAMP.NO.  247 246  CION:1401 S 2421 E 1400  151.26 SAMP.NO.  252 251 249 248 250  CION:1402 S 2420 E 1357  22.40 SAMP.NO.	start stop duration TIME :20:12:00 20:43:00 31 COG :2888.60 1.70 FDEPTH: 360 358 Towing dir: 335 Wire of Sorted: 127 Kg Total cat SPECIES  Merluccius capensis, female Merluccius capensis, male Helicolenus dactylopterus Merluccius paradoxus, female Krill Coelorinchus fasciatus Todarodes sagittatus Epigonus denticulatus Galeus polli MYCTOPHIDAE Nezumia milleri Selachophidium guentheri Ebinania costaecanarie  Total  DATE: 1/11/92 GEAR Start stop duration TIME :21:57:00 22:27:00 30 CG :2896.00 2897.40 1.70 FDEPTH: 460 460 BDEPTH: 460 460 BD	On (min) Purpose code: Area code: GearCond.code: Validity code: Validity code: Out:1050 m Speed: 30  CATCH/HOUR Weight numbers 422.25 329 72.93 66 27.27 507 16.99 46 16.63 14.50 172 9.79 23 7.57 252 2.92 43 1.12 1.12 56 0.50 19 0.19 10  TYPE: BT No:1 POS min) Purpose code: Area code GearCond.code: Validity code: Validit	EITION: Lat S 2419 Long E 1324  3 2  kn*10 CH/HOUR: 593.79  % OF TOT. C SAMP.NO.  71.11 267 12.28 266 4.59 2.86 268 2.80 2.44 1.65 1.27 0.49 0.19 0.19 0.09 0.03  99.98  PROJECT STATION: 1406 ITION: Lat S 2412 Long E 1319  3 2  kn*10 H/HOUR: 247.04  % OF TOT. C SAMP.NO.  62.34 270 26.11 4.86 271 2.02 269 1.08 272 0.35 0.28 0.23 0.11 0.08 0.06
LOG :2827.80 2829.20 1.60 FDEPTH: 256 263 BDEPTH: 256 263 BDEPTH: 256 263 Towing dir: 360 Wire out Sorted: 113 Kg Total catch  SPECIES  Merluccius capensis, female Merluccius capensis, male Sufflogobius bibarbatus Relicolenus dactylopterus Coelorinchus fasciatus Todarodes sagittatus Galeus polli Lepidopus caudatus Squilla acuelata calmani  Total  DATE: 1/11/92 GEAR TY start stop duration TIME :12:45:00 13:15:00 30 (mir LOG :2839.40 2840.80 1.64 FDEPTH: 196 200 BDEPTH: 196 200 BDEPTH: 196 200 Towing dir: 350 Wire out: Sorted: 74 Kg Total catch: SPECIES  Merluccius capensis, female Merluccius capensis, male Mustroglossus microlepis Chelidonichthys capensis Caleus polli Sufflogobius bibarbatus  Total  DATE: 1/11/92 GEAR TY start stop duration TIME :14:06:00 14:36:00 30 (mir Log :2846.10 2847.50 1.60 FDEPTH: 228 228 BDEPTH: 228 228 Towing dir: 350 Wire out: Sorted: 109 Kg Total catch: SPECIES  SPECIES  Sufflogobius bibarbatus Merluccius capensis, female Merluccius capensis, male Coelorinchus fasciatus	Area code GearCond.code Validity code: 900 m Speed: 2  : 422.50 CA CATCH/HOUR Weight number 577.74 122 103.80 31 97.41 1071 13.65 29 12.99 24 10.61 2 1.24 2 0.21 1: 0.08  817.73  PE: BT No:1 PG OPE: BT No:1	3 : 2 : 2 : 2 : 2 : 3 : 4 : 4 : 4 : 4 : 4 : 4 : 4 : 4 : 4	SAMP.NO.  247 246  PION:1401 S 2421 E 1400  SSAMP.NO.  252 251 249 250  PION:1402 S 2420 E 1357	start stop duration to the control of the control o	On (min) Purpose code: Area code: GearCond.code: Validity code: Out:1050 m Speed: 30 CATCH/HOUR Weight numbers 154.00 1.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	EITION: Lat S 2419 Long E 1324  3 2  kn*10 CH/HOUR: 593.79  % OF TOT. C SAMP.NO.  71.11 267 12.28 266 4.59 2.86 268 2.80 2.44 1.65 1.27 0.49 0.19 0.19 0.09 0.03  99.98  PROJECT STATION: 1406 ITION: Lat S 2412 Long E 1319  3 2  kn*10 H/HOUR: 247.04  % OF TOT. C SAMP.NO.  62.34 270 26.11 4.86 271 2.02 269 1.08 272 0.55 0.28 0.23 0.11 0.08 0.06 0.04

Total

422.40

					PROJECT	STAT	'IOI	N:1407
DATE:	2/11/92	GE:	AR TYPE	: BT No:1	POSITION:L	at	S	2400
		stop durat:			L	ona	E	1311
TIME	:04:31:00	05:01:00 30	(min)	Purpose cod	e: 3			
too	. 2041 00	2042 20 2 44						

TIME :04:31:00 05:01:00 30 (min) Purpose code: 3
LOG :2941.00 2942.30 1.44 Area code : 2
FDEPTH: 549 552 GearCond.code:
BDEPTH: 549 552 Validity code:
Towing dir: 345 Wire out:1500 m Speed: 29 kn\*10

Sorted: 87 Kg Total catch: 173.17 CATCH/HOUR: 346.34

SPECIES	CATCH	SAMP.NO.		
	weight	numbers		
Merluccius paradoxus, female	129.40	122	37.36	274
Hoplostethus cadenati	69.24	2928	19.99	
Deepwater fish mixture	52.20		15.07	
Deania calcea	27.00	1.2	7.80	
Nezumia milleri	25.44	708	7.35	
Todarodes sagittatus	19.32	48	5.58	
Trachyrinus scabrus	5.04	12	1.46	
Lophius upsicephalus	4.88	2	1.41	276
Merluccius capensis, female	3.88	2	1.12	275
Etmopterus pusillus	3.84	12	1.11	
Selachophidium guentheri	2.76	36	0.80	
Galeus polli	1.68	12	0.49	
Merluccius paradoxus, male	1.06	2	0.31	273
Notacanthus sexspinis	0.60	24	0.17	2.5
Total -	346.34		100.02	

	PROJECT STATION:	. 1 400
DATE: 2/11/92 GEAR TYP		2400
start stop duration		
TIME :06:33:00 07:04:00 31 (min)	Furpose code: 3	1314
LOG :2950.50 2952.10 1.60		
FDEPTH: 400 398	Area code : 2 GearCond.code:	
BDEPTH: 400 398		
	Validity code:	
iowing dir. 540 wife but:1	50 m Speed: 31 kn*10	
Sorted: 162 Kg Total catch:	269.86 CATCH/HOUR: 522.3	31
SPECIES	CATCH/HOUR % OF TOT. C SAM	P.NO.
	eight numbers	
Merluccius capensis, female		278
Helicolenus dactylopterus	112.90 948 21.62	
Merluccius capensis, male	45.81 33 8.77 2	277
Todarodes sagittatus	28.59 64 5,47	
Merluccius paradoxus, female	18.72 39 3.58 2	280
Deepwater fish mixture	18.33 3.51	
Galeus polli	17.13 62 3.28	
Aristeus varidens	5.71 755 1.09	
Nezumia milleri	3.58 101 0.69	
Etmopterus pusillus	3.45 14 0.66	
Lophius upsicephalus	2.86 4 0.55 2	281
Epigonus denticulatus	2.67 110 0.51	
Raja confundens	2.65 6 0.51	
Selachophidium guentheri	2.38 48 0.46	
Hoplostethus cadenati	2.17 132 0.42	
Deania calcea	1.45 4 0.28	
Coelorinchus fasciatus	1.45 15 0.28	
Notacanthus sexspinis	0.62 25 0.12	
Merluccius paradoxus, male		279
Coelorinchus braueri	0.58 25 0.11	
Ebinania costaecanarie	0.19 4 0.04	
PORTUNIDAE	0.19 6 0.04	

									PRO	JEC:	r sta	ATIO	N:1409
DATE:	2/11	/92		GE/	AR TYP	E: BT	No:1	PO	SITI	ON: 1	Lat	s	2400
		tart	stop	durat:	lon					1	Long	E	1320
TIME	:08:	47:00	09:20:00	33	(min)	Pur	pose c	ode:	3				
LOG	:295	9.60	2961.10	1.60			a code						
FDEPTH	:	304	303				rCond.						
BDEPTH	:	304	303				idity						
	TOW	ing di	lr: 350	Wire	out:	950 m	Spee	d: 28	kn*	10			

522.31

Total catch: 346.58 CATCH/HOUR: 630.15

100.02

Total

SPECIES	CATCH/HOUR		OF TOT. C	SAMP.NO.
	weight	numbers		
Merluccius capensis, female	321.16	265	50.97	283
Helicolenus dactylopterus	150.98	5449	23.96	
Merluccius capensis, male	69.82	62	11.08	282
Merluccius paradoxus, female	41.02	222	6.51	285
Trachurus capensis	22.07	4.4	3.50	286
Schedophilus huttoni	9.78	4	1.55	
Galeus polli	3.67	78	0.58	
MYCTOPHIDAE	3.02		0.48	
Todarodes sagittatus	2.75	4	0.44	
Coelorinchus fasciatus	1.93	44	0.31	
Epigonus denticulatus	1.87	105	0.30	
Merluccius paradoxus, male	1.13	- 4	0.18	284
Beryx splendens	0.35	4	0.06	
Chlorophthalmus punctatus	0.31	9	0.05	
Aristeus varidens	0.13	44	0.02	
Selachophidium guentheri	0.13	4	0.02	
Coelorinchus braueri	0.04	4	0.01	
Total	630.16		100.02	

					PROJECT ST		:1410
DATE:	2/11/92		EAR TYP	E: BT No:1	POSITION: Lat	s	2400
		stop dura	tion		Lond		1332
TIME	:11:06:00	11:35:00 29	(min)	Purpose co	de: 3	•	
LOG	:2974.80	2976.40 1.6	0	Area code			
FDEPTI	H: 270	267		GearCond.c	ode:		
BDEPT	H: 270	267		Validity c			
	Towing d	ir: 360 Wir	e out:	900 m Speed	: 31 kn*10		
Sort	ed: 180 K	g Total	catch:	1175.60	CATCH/HOUR:	2432.	28

SPECIES	CATCH	/HOUR	OF TOT. C	SAMP.NO.
	weight	numbers		
Merluccius capensis, female	1680.37	2522	69.09	292
Trachurus capensis	415.55	828	17.08	293
Merluccius capensis, male	151.30	364	6.22	291
Centrolophus niger	67.03	19	2.76	289
Brama brama	50.48	31	2.08	288
Helicolenus dactylopterus	39.74	1150	1.63	
Thyrsites atun	6.52	2	0.27	290
Trachipterus trachypterus	6.35	4	0.26	
Lophius upsicephalus	5.65	4	0.23	287
Coelorinchus fasciatus	5.05	141	0.21	207
Galeus polli	4.24	101	0.17	
Total —	2432.28		100.00	

Start stop duration TIME :13:51:00 14:22:00 31 (min LOG :2993.00 2994.50 1.61 FDEPTH: 242 237 BDEPTH: 242 237	PROJECT STATION:1411 PE: BT No:1 POSITION:Lat S 2400 ) Purpose code: 3 Area code : 2 GearCond.code: Validity code: 850 m Speed: 31 kn*10
Sorted: 137 Kg Total catch:	353.45 CATCH/HOUR: 684.10
SPECIES Merluccius capensis, female	CATCH/HOUR % OF TOT. C SAMP.NO. weight numbers 399.06 1051 58.33 296
Merluccius capensis, male	20.00
Helicolenus dactylopterus	
Trachurus capensis	
Sufflogobius bibarbatus	27.43 170 4.01 297
Coelorinchus fasciatus	19.47 1570 2.85
	6.39 116 0.93
Lophius upsicephalus Todarodes sagittatus	3.99 10 0.58 294
	2.32 6 0.34
Galeus polli	2.32 95 0.34
MYCTOPHIDAE	1.51 0.22
Squilla acuelata calmani	0.19 10 0.03
Total	684.10 99.99

	PROJECT STATION:1412
DATE: 2/11/92 GEAR TY	PE: BT No:1 POSITION:Lat S 2400
start stop duration	Long E 1400
TIME :16:26:00 16:41:00 15 (min	
LOG :3010.70 3011.40 0.78	Area code : 2
FDEPTH: 202 201	GearCond.code:
BDEPTH: 202 201	Validity code:
Towing dir: 340 Wire out:	750 m Speed: 31 kn*10
Sorted: 75 Kg Total catch:	216.74 CATCH/HOUR: 866.96
SPECIES	CATCH/HOUR & OF TOT. C SAMP.NO.
	weight numbers
Merluccius capensis, male	457.04 2216 52.72 298
Merluccius capensis, female	386.28 1452 44.56 299

01 20120	CAICH	/ NOUR S	OF TOT. C	SAMP.NO.		
	weight	numbers				
Merluccius capensis, male	457.04	2216	52.72	298		
Merluccius capensis, female	. 386.28	1452	44.56	299		
Trachurus capensis	17.40	116	2.01	300		
Sufflogobius bibarbatus	3.48	232	0.40			
Coelorinchus fasciatus	1.96	48	0.23			
PORTUNIDAE	0.68	12	0.08			
Squilla acuelata calmani	0.12	12	0.01			
Total	866.96		100.01			

		PROJECT ST	ATION:1413
DATE: 2/11/92	GEAR TYPE: BT No:1	POSITION:Lat	S 2400
start sto		Long	E 1408
TIME :18:11:00 18:2		de: 3	
LOG :3022.60 3023	3.40 0.90 Area code		
FDEPTH: 143	143 GearCond. ce	ode:	
BDEPTH: 143	143 Validity co	ode:	
Towing dir: 3	360 Wire out: 650 m Speed	: 31 kn*10	
Sorted: 13 Kg	Total catch: 800.00	CATCH/HOUR:	2823.53

SPECIES	CATCH/HOUR %	OF TOT. C	SAMP.NO.		
Merluccius capensis, female Merluccius capensis, male	weight numbers 1588.38 20022 1235.15 18000	56.26 43.74	302 301		
Total	2823.53	100.00			

						PROJECT STA	ATIC	N:1414
DATE:	2/11/92		GE A	AR TYP	E: BT No:1			2400
	start		durati			Long	E	1417
TIME	:20:04:00	20:16:00	12	(min)	Purpose co			
LOG	:3034.00	3034.50	0.60		Area code			
FDEPTH	: 103	102			GearCond.c			
BDEPTH	: 103	102			Validity c	ode:		
	Towing di	lr: 360	Wire	out:	450 m Speed	: 23 kn*10		

Sorted: 82 Kg Total catch:	60.00 CATCH/HOUR: 300.00
SPECIES	CATCH/HOUR & OF TOT. C SAMP.NO. weight numbers
Merluccius capensis, female Merluccius capensis, male Sufflogobius bibarbatus	weight numbers 128.80 2040 42.93 303 108.00 2040 36.00 304 63.20 28320 21.07
Total	300.00 100.00

									PRO	TECT ST	TIC	N:141
DATE:	2/1	1/92		GE 2	AR TYP	E: BT N	io:1	PO		N:Lat	s	240
		start	stop	durat:	ion					Long	E	
TIME	: 22	53:00	23:04:0	0 11	(min)	Purpo	se cod	ie:	3		_	
LOG	:30	6.30	3056.70	0.60		Area			2			
FDEPTH	:	120	120				ond . co	ode:	-			
BDEPTH	:	120	120				ity co					
	To	at nor d	lr: 360	W trans	out.	500 m			141			

Sorted: 12 Kg Total catch: 500.00 CATCH/HOUR: 2727.27

SPECIES	CATCH/HOUR		SAME NO.
Merluccius capensis	weight numbers 2727.27 39420		305
Total	2727.27	100.00	

														N:1416
DATE: 3								E: BT	No:1	PC	SITION:	Lat	S	2341
	5	tar	t	stop	dur	ati	on					Long	F.	1406
TIME :	:06;	25:	00 0	6:31:	00	6	(min)	Pur	oose c	ode:	3	,	_	
LOG :	: 309	1.7	0 3	092.0	0 0.	35			code					
FDEPTH:	:	15	3	15	3			Gea	Cond.	code:	_			
BDEPTH:	:	15	3	15	3			Val:	ldity	code:				
	Tow	ring	dir	: 330	W.I	re	out:	650 m	Spee	d: 31	kn*10			
Sorte	.a.	25	Κα		Total			200	0.00		CH/HOUE		3000	

SPECIES	CATCH/HC	NID &	OF TOT. C	SAMP.NO.
Merluccius capensis, female	weight no 2327.20	umbers 16040	77.57	307
Merluccius capensis, male Total	3000.00	6870	22.43	306

DATE: 3/11/92 GEAR TYPE: BT No:1 PROJECT STATION:1417

start stop duration Long E 1353

TIME :08:06:00 08:18:00 12 (min) Purpose code: 3

LOG :3104.70 3105.20 0.70 Area code : 2

FDEPTH: 173 173 GearCond.code:

BDEPTH: 173 173 Validity code:

Towing dir: 330 Wire out: 700 m Speed: 32 kn\*10

Sorted: 56 Kg Total catch: 870.33 CATCH/HOUR: 4351.65

SPECIES	CATCH	HOUR &	OF TOT. C	SAMP.NO.
Merluccius capensis, male Merluccius capensis, female Trachurus capensis PORTUNIDAE	weight 2278.50 1387.25 681.98 3.90	19065 7520 4418 80	52.36 31.88 15.67 0.09	309 310 311
Total	4351.63		100.00	

DATE: 3/11/92 GEAR TYPE: BT No:1 PROJECT STATION:1418
start stop duration
TIME :09:42:00 10:13:00 31 (min) Purpose code: 3
LOG :3116.40 3117.90 1.70 Area code : 2
FDEPTH: 200 199 GearCond.code:
DEPTH: 200 199 Validity code:
Towing dir: 330 Wire out: 800 m Speed: 32 kn\*10

Sorted: 85 Kg Total catch: 987.58 CATCH/HOUR: 1911.45

SPECIES	CATCH	HOUR &	OF TOT. C	SAMP.NO.
	weight	numbers		
Merluccius capensis, male	1022.90	6188	53.51	312
Trachurus capensis	532.90	3478	27.88	314
Merluccius capensis, female	237.10	768	12.40	313
Helicolenus dactylopterus	77.90	2868	4.08	
Sufflogobius bibarbatus	21.00	1829	1.10	
Lepidopus caudatus	8.81	112	0.46	
Coelorinchus fasciatus	4.30	68	0.22	
Lophius upsicephalus	3.62	23	0.19	
PORTUNIDAE	2.48	45	0.13	
Todarodes sagittatus	0.45	23	0.02	
Total	1911.46		99.99	

Sorted: 228 Kg Total catch: 2734.08 CATCH/HOUR: 5468.16

CATCH/HOUR & OF TOT. C SAMP.NO.

weight numbers
3679.20 18288 67.28 315
1178.40 1776 21.55 317
319.20 576 5.84 316
96.96 3730 1.77
85.92 72 1.57 318
51.84 816 0.95
29.52 1200 0.54
13.92 24 0.25
7.92 528 0.14
3.60 24 0.07
1.68 96 0.03 SPECIES Trachurus capensis
Merluccius capensis, female
Merluccius capensis, female
Merluccius capensis, male
Helicolenus dactylopterus
Lophius upsicephalus
Coelorinchus fasciatus
Galeus polli
Todarodes sagittatus
Chlorophthalmus atlanticus
Lepidopus caudatus
Sufflogobius bibarbatus

Total

Sorted: 145 Kg

		PROJECT STATION:1420
DATE: 3/11/92	GEAR TYPE: BT No:1	POSITION: Lat S 2341
start stop	duration	Long E 1318
TIME :13:56:00 14:29:00	33 (min) Purpose code	
LOG :3143.80 3145.60		
FDEPTH: 300 300	GearCond.coc	le:
BDEPTH: 300 300	Validity cod	
Towing dir: 360	Wire out: 950 m Speed:	30 kn*10

Total catch: 368.77 CATCH/HOUR:

5468.16

90 90

SPECIES	CATCH	/HOUR 4	OF TOT. C	SAMP.NO.
	weight	numbers		
Merluccius capensis, female	343.64	371	51.25	320
Merluccius capensis, male	106.91	104	15.95	319
Helicolenus dactylopterus	62.67	1769	9.35	
Centrolophus niger	44,18	18	6.59	323
Trachurus capensis	28.91	49	4.31	325
Merluccius paradoxus, female	24.00	131	3.58	322
Deepwater fish mixture	21.44		3.20	
Trachipterus trachypterus	10.91	2	1.63	
Todarodes sagittatus	9.38	16	1.40	
Galeus polli	6.33	98	0.94	
Brama brama	4.71	4	0.70	324
Chlorophthalmus atlanticus	2.89	82	0.43	J
Epigonus denticulatus	1.75	76	0.26	
Coelorinchus fasciatus	1.36	22	0.20	
Merluccius paradoxus, male	1.15	5	0.17	321
Malacocephalus occidentalis	0.27	5	0.04	321
Total	670.50		100.00	

192.48	CATCH	/HOUR:	384.96
		OF TOT. C	SAMP.NO.
weight :	numbers		
123.80	82	32.16	327
110.18	1208	28.62	
24.00	52		329
23.38	1806		
			326
			326
	0.0		
			200
			328
	42		
0.28	14	0.07	
384.96		99.99	
	CATCH/F weight 123.80 110.18 24.00 23.38 21.14 21.00 17.60 10.08 8.40 5.46 4.20 3.50 3.22 2.52 2.14 1.68 1.40 0.98 0.28	CATCH/HOUR Numbers 123.80 82 110.18 1208 24.00 52 23.38 1806 21.14 42 21.00 70 17.60 14 10.08 112 5.46 4.20 3.50 98 3.22 2 2.52 168 21.14 68 42 1.40 0.98 56 0.28 14	CATCH/HOUR Numbers 123.80 82 32.16 110.18 1208 28.62 24.00 52 6.23 23.38 1806 6.07 21.14 42 5.49 21.00 70 5.46 17.60 14 4.57 10.08 112 2.18 5.46 112 2.18 5.46 112 2.18 5.46 120 1.09 3.50 98 0.91 3.22 2 0.84 2.52 168 0.65 2.14 4 0.56 1.68 42 0.44 1.40 0.36 0.98 56 0.25 0.28 14 0.07

DATE:	3,	11	/92			G	EAR T	YPE: BT	No:1	PC		ECT STA N:Lat		2340
					top							Long	E	130
TIME	: 3	7:	22:00	17	:52:0	0 30	(mi	n) Pur	pose	code:	3		_	
LOG	: 3	316	3.10	31	64.80	1.5	0 .			e :				
FDEPTH	:		472		475	5		Gea	rCond	. code :	-			
BDEPTH	i:		472		475	5		Val	idity	code:				
	7	'ow	ing c	lir:	350	Wir	out	:1300 m	Spe	ed: 29	kn*1	0		

Sorted: 142 Kg Total catch:	213.61	CATCH/R	OUR:	427.22
SPECIES	CATCH/H	OUR & OF	тот. с	SAMP.NO.
	weight n	umbers		
Merluccius paradoxus, female	125.70	232	29.42	332
Trachyrinus scabrus	86.10	286	20.15	
Todarodes sagittatus	71.40	126	16.71	
Hoplostethus cadenati	43.56	3478	10.20	
Merluccius capensis, female	42.30	24	9.90	330
Deania calcea	14.70	12	3.44	
Deepwater fish mixture	10.08		2.36	
Nezumia milleri	6.46	402	1.51	
Schedophilus huttoni	6.00	4	1.40	
SHRIMPS	3.76		0.88	
Helicolenus dactylopterus	3.30	22	0.77	
Lophius upsicephalus	2.70	4	0.63	333
Galeus polli	2.50	36	0.59	
Etmopterus pusillus	1.92	6	0.45	
Merluccius paradoxus, male	1.44	4	0.34	331
Centrophorus squamosus	1.24	4	0.29	
Epigonus denticulatus	1.12	54	0.26	
Trachurus capensis	0.94	6	0.22	
Tetragonurus cuvieri	0.82	4	0.19	
Selachophidium guentheri	0.40	10	0.09	
Aristeus varidens	0.34		0.08	
Paradiplospinus gracilis	0.22	4	0.05	
Notacanthus sexspinis	0.22	10	0.05	
Total	427.22	-	99.98	

															PF	юл	ECI	STA	TIO	N:142
DATE:	3/1	11,	/92						GEAR	TYPE	: BT	No:	1	PO	SIT	'IO	N:L	at	S	2337
			car			top			atio	n							I	ong	E.	1304
TIME	:18	3:5	56:	00	19	:26	:00	3	0 (	min)	Pur	pose	code	::	3					
LOG	: 31	169	9.3	0	31	70.	80	1.	40				de							
FDEPTE	1:		58	2		5	78				Gea	rCon	d.cod	ie:						
BDEPTE	l:		58	2		5	78						y cod							
	To	w	ing	d.	ir:	35	0	W1	re o	ut:15	50 m	Sp	eed:	29	kг	*10	0			
												-								
Sort	ed:		39	K	3		To	tal	cat	ch:	111	9.08		TA:	CH	'HOI	IR .		238	16

Sorted: 39 Kg Total catch:	119.08	CATCH	/HOUR:	238.16
SPECIES	CATCH/	HOUR %	OF TOT. C	SAMP.NO.
	weight	numbers		
Deania calcea	84.80	40	35.61	
Hoplostethus cadenati	58.96	1792	24.76	
Nezumia milleri	27.20	1064	11.42	
Merluccius paradoxus, female	24.80	20	10.41	334
Todarodes sagittatus	21.20	24	8.90	55,
Deepwater fish mixture	6.64		2.79	
Galeus polli	5.92	56	2.49	
Selachophidium quentheri	3.28	40	1.38	
SHRIMPS	1.92	40	0.81	
Aristeus varidens	1.60	120	0.67	
ALEPOCEPHALIDAE	1.04	56	0.44	
Allocyttus verrucosus	0.32	8	0.13	
Stereomastis sculpta	0.16	8	0.13	
Heterocarpus grimaldii	0.16	8		
Notacanthus sexspinis			0.07	
"ocuounchus sexspinis	0.16	8	0.07	
Total —	238.16		100.02	

								PROJE	CT STA	TIO	N:1424
DATE:	4/11/92		GEA	R TYPE:	BT	No:1	POS	ITION	:Lat	S	2320
	start										1316
TIME	:06:25:00	06:56:00	31	(min)	Pun	oose co	de:	3			
LOG	:3208.30	3209.80	1.60		Are	a code	:	2			
FDEPTH	: 355	360			Gea	Cond.c	ode:				
BDEPTH	: 355	360			Val:	ldity c	ode:				
	Towing d	ir: 350	Wire	out:105	0 m	Speed	: 29	kn*10			

Sorted: 166 Kg Total catch: 416.14 CATCH/HOUR:

SPECIES	CATCH	/HOUR	OF TOT. C	SAMP.NO.
	weight	numbers		
Merluccius capensis, female	569.03	383	70.65	336
Merluccius capensis, male	84.68	68	10.51	335
Todarodes sagittatus	55.94	122	6.95	
Galeus polli	21.29	271	2.64	
Helicolenus dactylopterus	20.38	364	2.53	
Krill	15.35		1.91	
Merluccius paradoxus, female	14.90	48	1.85	337
Neoharriotta pinnata	12.29	10	1.53	
Epigonus denticulatus	5.96	300	0.74	
Hoplostethus cadenati	2.48	58	0.31	
Chlorophthalmus punctatus	1.16	35	0.14	
Coelorinchus fasciatus	0.93	15	0.12	
Nezumia milleri	0.74	29	0.09	
Selachophidium guentheri	0.25	10	0.03	
Notacanthus sexspinis	0.06	6	0.01	

805.44

100.01

Total

FDEPTH: 285 285 Gea BDEPTH: 285 285 Val	Long E 1324	start stop duration TIME :17:31:00 17:36:00 5 (min LOG :3278.70 3278.90 0.24 FDEPTH: 116 116 BDEPTH: 116 116	PROJECT STATION:1430 PE: BT No:1 POSITION:Lat S 2320 Long E 1411 Purpose code: 3 Area code : 2 GearCond.code: Validity code: 500 m Speed: 25 kn*10
Sorted: 105 Kg Total catch: 26	52.05 CATCH/HOUR: 507.19	Sorted: 1 Kg Total catch:	100.00 CATCH/HOUR: 1200.00
Weigh	.12 397 29.20 340 40 21.18 65 81 19.84 338 .74 257 8.43 339 .17 1463 7.13 90 10 5.70	SPECIES Sufflogobius bibarbatus Total	CATCH/HOUR % OF TOT. C SAMP.NO. weight numbers 1200.00 541176 100.00 1200.00 100.00
Thyrsites atun 5. Coelorinchus fasciatus 4. Lophius upsicephalus 3. Galeus polli 3. Hyperoglyphe moselii 1. Beryx splendens 1. Malacocephalus occidentalis 0.	39 56 0.87 10 2 0.61 342 00 68 0.59 90 2 0.37 49 21 0.29 15 6 0.03 06 6 0.01	start stop duration TIME :06:06:00 06:21:00 15 (min) LOG :3321.20 3322.00 0.90 FDEPTH: 140 139 BDEPTH: 140 139	PROJECT STATION:1431 PE: BT No:1
DATE: 4/11/92 GEAR TYPE: PT	PROJECT STATION:1426	Merluccius capensis, female Merluccius capensis, male Trachurus capensis Chelidonichthys capensis Sufflogobius bibarbatus	CATCH/HOUR & OF TOT. C SAMP.NO. weight numbers 2790.00 39960 53.999 356 2052.00 28260 39.71 355 169.20 1260 3.27 357 151.20 180 2.93 5.40 900 0.10  5167.80 100.000
Sorted: Kg Total catch:  SPECIES CAT Weigh 0.  Total		start stop duration TIME :10:14:00 10:44:00 30 (min) LOG :3337.10 3338.50 1.70 FDEPTH: 182 184 BDEPTH: 182 184	PROJECT STATION:1432 E: BT No:1 POSITION:Lat S 2301 Long E 1333 Purpose code: 3 Area code : 2 GearCond.code: Validity code: 700 m Speed: 33 kn*10 964.17 CATCH/HOUR: 1928.34
LOG :3228.50 3229.90 1.60 Are FDEPTH: 211 217 Gen BDEPTH: 211 217 Val Towing dir: 350 Wire out: 800 m	PROJECT STATION:1427 POSITION:Lat \$ 2318 Long E 1331 pose code: 3 a code : 2 rCrOnd.code: idity code: \$ Speed: 31 kn*10  16.52 CATCH/HOUR: 2412.62	Merluccius capensis, male Merluccius capensis, female Trachurus capensis; Helicolenus dactylopterus Lepidopus caudatus Coelorinchus fasciatus Sufflogobius bibarbatus Lophius upsicephalus	CATCH/HOUR Numbers 71.20 9010 45.18 359 673.20 5610 34.91 360 336.60 2014 17.46 361 28.38 1122 1.47 7.92 66 0.41 5.62 232 0.29 3.64 0.19 1.78 2 0.09 358
### CAT   Trachurus capensis   Female	45 4953 40.22 345 42 1514 24.85 347 06 1409 24.54 346 55 1053 5.54 94 21 2.73 344 62 1485 1.64 74 445 0.20 78 29 0.07 63 118 0.07 49 15 0.06 60 29 0.02		Area code : 2 GearCond.code: Validity code:
FDEPTH: 152 157 Gea: BDEPTH: 152 157 Val: Towing dir: 350 Wire out: 650 m Sorted: 143 Kg Total catch: 1180	Long E 1343 pose code: 3 a code : 2 rCond.code: idity code: Speed: 31 kn*10 6.50 CATCH/HOUR: 2373.00  FCH/HOUR % OF TOT. C SAMP.NO.	Merluccius capensis, female Merluccius capensis, male Helicolenus dactylopterus Galeus polii Trachurus capensis Lophius upsicephalus Chlorophthalmus atlanticus Merluccius paradoxus, female Torpedo nobiliana Coelorinchus fasciatus Ebinania costaecanarie Total	CATCH/HOUR Numbers 103 50.91 364 76.26 68 24.67 363 24.08 666 7.79 22.61 422 7.31 12.97 41 4.20 366 10.72 10 3.47 365 1.82 46 0.59 1.37 4 0.44 362 1.14 2 0.37 0.70 23 0.23 0.08 4 0.03
Merluccius capensis, female   964.    Merluccius capensis, male   784.    Trachurus capensis   540.    Galeorhinus galeus   54.    Chelidonichthys capensis   18.    Coelorinchus fasciatus   8.    Pterothrissus belloci   2.    Sufflogobius bibarbatus   1.    Total   2373.	00 7892 40.62 349 00 9106 33.04 348 00 3400 22.76 350 00 2 2.28 00 40 0.76 80 140 0.37 60 20 0.11 60 220 0.07	start stop duration TIME :14:05:00 14:35:00 30 (min) LOG :3362.00 3363.30 1.55 FDEPTH: 352 343 BDEPTH: 352 343	PROJECT STATION:1434 E: BT No:1 POSITICN:Lat S 2301     Long E 1313 Purpose code: 2 GearCond.code: Validity code: Validity code: 050 m Speed: 31 kn*10 193.14 CATCH/HOUR: 386.28
LOS :3261.40 3262.00 0.56 Area FDEPTH: 152 152 Gear BDEPTH: 152 152 Vali Towing dir: 360 Wire out: 650 m Sorted: 99 Kg Total catch: 780 SPECIES CAT	Long E 1356  pose code: 3 a code : 2 rCond.code: ldity code: Speed: 30 kn*10  0.73 CATCH/HOUR: 4684.38  CCH/HOUR % OF TOT. C SAMP.NO. 1 numbers 100 32940 54.56 354 100 23400 34.58 353	Merluccius capensis, female Merluccius capensis, male Schedophilus huttoni Merluccius paradoxus, female Helicolenus dactylopterus Torpedo nobiliana Todarodes sagittatus Krill Deepwater fish mixture Epigonus denticulatus Galeus polli Trachurus capensis Zenopsis conchifer Merluccius paradoxus, male	CATCH/HOUR & OF TOT. C SAMP.NO.  Meight numbers 211.80 148 54.83 370 60.40 62 15.64 369 25.80 10 6.68 372 23.60 102 6.11 368 19.76 364 5.12 7.80 2 2.02 7.44 20 1.93 7.28 1.88 6.52 1.69 4.96 208 1.28 3.44 88 0.89 2.74 10 0.71 371 2.62 2 0.68 1.04 8 0.27 367
Trachurus capensis 55.8 Merluccius capensis, male 8.5	80 360 1.19	S H R I M P S Coelorinchus fasciatus Nezumia milleri	0.72 0.19 0.20 4 0.05 0.16 8 0.04

100.01

386.28

4684.38

99.99

Total

Total

PROJECT STATION:1435

DATE: 5/11/92 GEAR TYPE: BT NO:1 PROJECT STATION:143:
start stop duration Long E 1301

TIME :16:17:00 16:50:00 33 (min) Purpose code: 3
LOG :3376:90 3376:90 3376:90 3376:90 3376:90 3376:90 37

Sorted: 157 Kg Total catch: 409.39 CATCH/HOUR: 744.35

SPECIES	CATCH	/HOUR %	OF TOT. C	SAMP.NO.
	weight	numbers		
Merluccius paradoxus, female	336.82	685	45,25	375
Merluccius capensis, female	122.91	71	16.51	373
Trachyrinus scabrus	80.96	307	10.88	
Lophius upsicephalus	32.73	11	4.40	377
Centrophorus squamosus	22.36	2	3.00	• • •
Helicolenus dactylopterus	22.04	89	2.96	
Schedophilus huttoni	20.55	16	2.76	376
Todarodes sagittatus	17.91	42	2.41	
Merluccius paradoxus, male	15.73	35	2.11	374
Nezumia milleri	13.13	698	1.76	
Neoharriotta pinnata	9.27	5	1.25	
Etmopterus pusillus	8.93	24	1.20	
Centrophorus squamosus	7.56	5	1.02	
Hoplostethus cadenati	7,27	236	0.98	
SHRIMPS	7.15		0.96	
Centrophorus granulosus	6.49	2	0.87	
Deepwater fish mixture	4.78		0.64	
Deania calcea	3.20	5	0.43	
Galeus polli	2.25	36	0.30	
Epigonus denticulatus	2.02	53	0.27	
Selachophidium guentheri	0.29	5	0.04	
Total	744.35		100.00	

PROJECT STATION:1436 | DATE: | STATE | STAT

Sorted: 190 Kg Total catch: 222.95 CATCH/HOUR: 461.28

SPECIES	CATCH	/HOUR %	OF TOT. C	SAMP.NO.
	weight	numbers		
Merluccius capensis, female	147.10	79	31.89	379
Merluccius paradoxus, female	115.86	283	25.12	381
Helicolenus dactylopterus	61.66	170	13.37	
Centrophorus squamosus	30.41	4	6.59	
Merluccius capensis, male	23.38	17	5.07	378
Hoplostethus cadenati	20.11	455	4.36	• • •
Todarodes sagittatus	17.54	66	3.80	
SHRIMPS	12.70		2.75	
Schedophilus huttoni	7.03	4	1.52	
Nezumia milleri	5.26	445	1.14	
Epigonus denticulatus	3.68		0.80	
Deania calcea	3.23	8	0.70	
Galeus polli	2.69	33	0.58	
Deepwater fish mixture	2.40		0.52	
Merluccius paradoxus, male	2.13	10	0.46	380
Aristeus varidens	1.70	178	0.37	
Selachophidium guentheri	1.53	25	0.33	
Etmopterus pusillus	1.37	8	0.30	
Coelorinchus coelorinch, polli	1.24	12	0.27	
Notacanthus sexspinis	0.25	17	0.05	
Total	461.27		99.99	

PROJECT STATION:1437
GEAR TYPE: BT No:1 POSITION:Lat S 2241
ration Long E 1249 

Sorted: 50 Kg Total catch	50.07	7 CATCH/	HOUR:	100.14
SPECIES	CATCH/	HOUR % C	OF TOT. C	SAMP.NO.
	weight	numbers		
Merluccius paradoxus, female	40.80	76	40.74	384
Todarodes sagittatus	13.80	28	13.78	
Deania calcea	7.20	6	7.19	
Merluccius capensis, female	6.70	4	6.69	382
Hoplostethus cadenati	5.68	130	5.67	
Centrophorus squamosus	4.30	4	4.29	
Deepwater fish mixture	4.28		4.27	
Allocyttus verrucosus	3.44	68	3.44	
Trachyrinus scabrus	3.20	18	3.20	
Helicolenus dactylopterus	2.18	14	2.18	
Nezumia milleri	2.14	76	2.14	
Coelorinchus matamua	2.10	4	2.10	
Raja confundens	1.32	2	1.32	
Epigonus denticulatus	1.24	26	1.24	
Merluccius paradoxus, male	0.64	4	0.64	383
Notacanthus sexspinis	0.42	20	0.42	
Selachophidium guentheri	0.30	6	0.30	
Aristeus varidens	0.22	26	0.22	
Galeus polli	0.18	10	0.18	
Total	100.14	-	100.01	

DATE: 5/11/92 GEAR TYPE: BT No:1 PROJECT STATION:1438
start stop duration Purpose code: 3
LOG :22:46:00 23:16:00 30 (min) Purpose code: 2
LOG :3407.60 3408.90 1.60 Area code : 2
FDEPTH: 369 383 GearCond.code:
BDEPTH: 369 383 Validity code:
Towing dir: 350 Wire out:1100 m Speed: 27 kn\*10 PROJECT STATION:1438

Total catch: 172.02 CATCH/HOUR: 344.04 Sorted: 172 Kg

SPECIES	CATCH, weight	/HOUR %	OF TOT. C	SAMP.NO.
Merluccius capensis, female	196.00	124	56.97	389
Merluccius capensis, male	44.80	34	13.02	388
Helicolenus dactylopterus	36.00	200	10.46	300
Merluccius paradoxus, female	24.60	72	7.15	386
Epigonus denticulatus	11.90	332	3.46	300
Todarodes sagittatus	7.90	16	2.30	
Deepwater fish mixture	4.16	10	1.21	
Coelorinchus fasciatus	3.36	40	0.98	
Etmopterus pusillus	2.72	10		
Deania calcea	2.12		0.79	
Galeus polli		2	0.70	
Aristeus varidens	2.38	38	0.69	
	1.64	_	0.48	
Lophius upsicephalus	1.26	2	0.37	387
Hoplostethus cadenati	1.08	22	0.31	
Selachophidium guentheri	0.78	22	0.23	
Nezumia milleri	0.64	22	0.19	
Chlorophthalmus atlanticus	0.60	18	0.17	
OMMASTREPHIDAE	0.50	14	0.15	
Coelorinchus coelorinch, polli	0.50	10	0.15	
Merluccius paradoxus, male	0.34	2	0.10	385
Trachurus capensis	0.32	2	0.09	
Notacanthus sexspinis	0.16	4	0.05	
Total	344.04		100.02	

Sorted: 161 Kg Total catch: 293.04 CATCH/HOUR: 586.08

SPECIES	CATCH	/HOUR %	OF TOT. C	SAMP.NO.
	weight	numbers		
Merluccius capensis, female	416.54	252	71.07	391
Merluccius capensis, male	82.14	74	14.02	390
Helicolenus dactylopterus	33.84		5.77	
Merluccius paradoxus, female	18.04	8.0	3.08	392
Epigonus denticulatus	7.96	362	1.36	
Deepwater fish mixture	5.98		1.02	
Genypterus capensis	4.58	4	0.78	393
Schedophilus huttoni	3.92	4	0.67	
Coelorinchus fasciatus	2.94	44	0.50	
Todarodes sagittatus	2.78	8	0.47	
Coelorinchus coelorinch, polli	2.08	66	0.35	
Chlorophthalmus punctatus	1.36	4.4	0.23	
Nezumia milleri	1.10	36	0.19	
Etmopterus pusillus	1.02	4	0.17	
Galeus polli	0.66	10	0.11	
Selachophidium guentheri	0.62	8	0.11	
Hoplostethus cadenati	0.52	14	0.09	
Total	586.08		99.99	

Total catch: 241.90 CATCH/HOUR: 691.14 Sorted: 125 Kg

SPECIES	CATCH	/HOUR %	OF TOT. C	SAMP.NO.
	weight	numbers		
Merluccius capensis, female	378.86	326	54.82	395
Merluccius capensis, male	176.57	183	25.55	394
Trachurus capensis	35.31	114	5.11	397
Schedophilus huttoni	34.80	14	5.04	
Helicolenus dactylopterus	29.14	1209	4.22	
MYCTOPHIDAE	18.06		2.61	
Merluccius paradoxus, female	14.34	69	2.07	396
Chlorophthalmus punctatus	1.83	57	0.26	
Galeus polli	1.20	34	0.17	
Coelorinchus fasciatus	0.80	6	0.12	
Coelorinchus coelorinch, polli	0.11	6	0.02	
Nezumia milleri	0.06	6	0.01	
Epigonus denticulatus	0.06	11	0.01	
Total	691.14		100.01	

Sorted: 132 Kg Total catch: 211.21 CATCH/HOUR: 666.98

SPECIES	CATCH/HOUR %		OF TOT. C	SAMP.NO.
	weight	numbers		
Merluccius capensis, female	255.66	278	38.33	401
Merluccius capensis, male	210.69	262	31.59	400
Trachurus capensis	69.22	196	10.38	399
Deepwater fish mixture	57.60		8.64	
Chlorophthalmus atlanticus	26.34	985	3.95	
Helicolenus dactylopterus	22.48	707	3.37	
Coelorinchus fasciatus	9.51	136	1.43	
Todarodes sagittatus	5.40	19	0.81	
Galeus polli	4.89	167	0.73	
Lophius upsicephalus	4.01	6	0.60	398
Beryx splendens	1.17	9	0.18	
Total	666.97		100.01	

```
DATE: 6/11/92 GEAR TYPE: BT No:1 PROJECT STATION:1442

Start stop duration Long E 13:12:00 13:22:00 10 (min) Purpose code: 3

LOG :3474.10 3474.60 0.61 Area code : 2

FDEPTH: 133 133 GearCond.code: Validity code: Validity code: Validity code: Validity code: Sorted: 113 Kg Wire out: 550 m Speed: 33 kn*10
                                             Total catch: 1239.37 CATCH/HOUR: 7436.22
             Sorted: 113 Kg
                                                                                                  OUR % OF TOT. C SAMP.NO.
                                                                                   CATCH/HOUR
                                                                              weight
4474.80
                                                                                                                        60.18
24.05
15.18
0.31
0.19
   Trachurus capensis
   Merluccius capensis, female
Merluccius capensis, male
                                                                             1788.60
1128.60
                                                                                                   18006
17106
   Chelidonichthys capensis
   Lepidopus caudatus
Pterothrissus belloci
                                                                                 13.86
                                                                                                                          0.10
                                                                        7436.22
                                                                                                                      100.01
                                                             PROJECT STATION:1443
GEAR TYPE: BT No:1 POSITION:Lat S 2240
          DATE: 8/11/92
                                                                                                                          Lat S 2240
Long E 1406
         DATE: 8/11/92 GEAR TYPE: BT No:1 POSITION:La start stop duration
TIME :13:52:00 14:22:00 30 (min) Purpose code: 3
LOG :364.00 3565.30 1.72 Area code : 2
FDEPTH: 106 109 GearCond.code:
BDEPTH: 106 109 Validity code:
Towing dir: 345 Wire out: 450 m Speed: 34 kn*10
             Sorted: 50 Kg Total catch: 50.08 CATCH/HOUR: 100.16
                                                                             CATCH/HOUR & OF TOT. C SAMP.NO. weight numbers 100.00 99.84 0.16 2 0.16
  SPECTES
 Sufflogobius bibarbatus
Merluccius capensis
  Total
                                                                             100.16
                                                                                                                    100.00
                                                            PROJECT STATION:1444
GEAR TYPE: BT No:1 POSITION:Lat S 2240
ration Long E 1355
         DATE: 8/11/92
         Total catch: 2075.57 CATCH/HOUR: 4151.14
                                                                            CATCH/HOUR & OF TOT. C SAMP.NO. weight numbers 2352.00 24640 56.66 406 1750.00 21280 42.16 405
 SPECIES
 Merluccius capensis, female
Merluccius capensis, male
Chelidonichthys capensis
Todaropsis eblanae
Austroglossus microlepis
                                                                                                                      56.66
42.16
0.83
0.34
0.02
                                                                                                                                           407
                                                                                                                  100.01
 Total
                                                                           4151.14
                                                            GEAR TYPE: BT No:1 PROJECT STATION:1445
ration Long E 1403
         DATE: 8/11/92
        DATE: 8/11/92 GEAR TYPE: BT No:1 POSITION:
start stop duration
TIME :18:22:00 18:51:00 29 (min) Purpose code: 3
LOG :3598.30 3599.80 1.70 Area code : 2
FDEPTH: 89 87 GearCond.code:
BDEPTH: 89 87 Validity code:
Towing dir: 15 Wire out: 400 m Speed: 35 kn*10
            Sorted: 2 Kg
                                                  Total catch: 2.00 CATCH/HOUR:
                                                                                                                                      4.14
                                                                                 CATCH/HOUR
                                                                                                           % OF TOT. C SAMP.NO.
                                                                            weight numbers
4.14 100.00
 Sufflogobius bibarbatus
       DATE: 9/11/92 GEAR TYPE: BT No:1 PROJECT STATION:1446

start stop duration Long E 1350

TIME :06:24:00 06:28:00 4 (min) Purpose code: 3

LOG :3622.10 3622.30 0.20 Area code: 2

FDEPTH: 114 114 GearCond.code: 9

FDEPTH: 114 114 Validity code: 1

Towing dir: 350 Wire out: 500 m Speed: 27 kn*10

Sorted: 22 Kg Tarton Speed: 27 kn*10
            Sorted: 22 Kg Total catch: 22.00 CATCH/HOUR: 330.00
                                                                            CATCH/HOUR % OF TOT. C SAMP.NO. weight numbers 300.00 90.91 30.00 9.09
SPECIES
 Sufflogobius bibarbatus
                                                                                                                90.91
9.09
 Merluccius capensis
Total
                                                                             330.00
                                                                                                                   100 00
                                                                                                            PROJECT STATION:1447
        DATE: 9/11/92
                                                           GEAR TYPE: BT No:1 POSITION:Lat S 2220 ration Long E 1338
       DATE: 9/11/92 GEAR TYPE: BT No:1 POSITION:
start stop duration
TIME :08:05:00 08:35:00 30 (min) Purpose code: 3
LOG :3634.60 3636.00 1.60 Area code : 2
FDEPTH: 125 GearCond.code:
BDEPTH: 125 Validity code:
Towing dir: 350 Wire out: 500 m Speed: 32 kn*10
           Sorted: 39 Kg Total catch: 1711.87 CATCH/HOUR: 3423.74
                                                                                CATCH/HOUR
                                                                                                           % OF TOT, C SAMP.NO.
Merluccius capensis, female
Merluccius capensis, male
Trachurus capensis
Chelidonichthys capensis
Sufflogobius bibarbatus
Merluccius capensis, juveniles
Thyrsites atun
Todaropsis eblanae
Callorhinchus capensis
                                                                           weight
1856.00
1252.80
113.68
                                                                                            numbers
18212
14384
                                                                                                                      54.21
36.59
3.32
2.51
1.86
                                                                                                    232
                                                                                                    928
                                                                                                                        0.68
0.35
0.24
                                                                                                   232
Callorhinchus capensis
Austroglossus microlepis
```

5.36 2.94

3423.74

Total

0.16

100.01

411

```
DATE: 9/11/92 GEAR TYPE: BT No:1 PROJECT STATION:1448

start stop duration Purpose code: 3

TIME :09:59:00 10:29:00 30 (min) Purpose code: 3

Area code : 2

FDEPTH: 162 164 GearCond.code: 5

BDEPTH: 162 164 Validity code: 5

Towing dir: 300 Wire out: 650 m Speed: 33 kn*10
                  DATE: 9/11/92
                         Sorted: 62 Kg
                                                                                                 Total catch: 1719.47 CATCH/HOUR: 3438.94
                                                                                                                                                           CATCH/HOUR
                                                                                                                                                                                                           % OF TOT. C SAMP.NO.
                                                                                                                                                 weight numbers
1827.00 13630
1548.60 6902
45.24 580
11.60 174
2.74 4
2.60 2
1.16 58
    Merluccius capensis, male
Merluccius capensis, female
Lepidopus caudatus
Coelorinchus fasciatus
Lophius upsicephalus
Callorhinchus capensis
Merluccius capensis, juveniles
                                                                                                                                                                                                                                  45.03
                                                                                                                                                                                                                                    1.32
0.34
0.08
                                                                                                                                                                                                                                                                     412
                                                                                                                                                           2.60
1.16
                                                                                                                                                                                                                                    0.03
                                                                                                                                                 3438.94
                                                                                                                                                                                                                             100.01
                 Sorted: 138 Kg Total catch: 494.47 CATCH/HOUR:
                                                                                                                                                     CATCH/HOUR seight numbers 122.60 1604 792 316 3674
                                                                                                                                               CATCH Weight 422.60 322.60 154.00 13.18 10.36 9.22 5.32 2.86 2.44 1.16 1.00
                                                                                                                                                                                                            % OF TOT. C SAMP.NO.
  Trachurus capensis
Merluccius capensis, male
Merluccius capensis, female
Chlorophthalmus atlanticus
Coelorinchus fasciatus
Todarodes sagittatus
Helicolenus dactylopterus
Lepidopus caudatus
Lophius upsicephalus
Galeus polli
Todaropsis eblanae
Sufflogobius bibarbatus
                                                                                                                                                                                                                               42.73
                                                                                                                                                                                                                               15.57
4.47
1.33
                                                                                                                                                                                                                                   0.54
0.29
0.25
0.12
                                                                                                                                                                                                                                                                   416
                                                                                                                                                                                                                                   0.12
                                                                                                                                                   988.94
                                                                                                                                                                                                                          100.00
                                                                                                                 GEAR TYPE: BT No:1 PROJECT STATION:1450
ration Long E 1304
                DATE: 9/11/92
                DATE: 9/11/92 GEAR TYPE: BT No:1 POSI: start stop duration
TIME :14:18:00 14:48:00 30 (min) Purpose code: 3
LOG :3675.80 3677.10 1.75 Area code: 2
FDEPTH: 254 254 GearCond.code: 4
Towing dir: 355 Wire out: 900 m Speed: 33 km out: 900 m Speed: 900 m Sp
                                                                                                    Validity code:
Wire out: 900 m Speed: 33 kn*10
                       Sorted: 216 Kg
                                                                                        Total catch: 1507.90 CATCH/HOUR: 3015.80
                                                                                                                                          CATCH/
weight
1801.80
926.80
98.00
97.16
39.06
21.84
19.46
6.86
2.10
1.74
                                                                                                                                                        CATCH/HOUR
                                                                                                                                                                                                         % OF TOT, C SAMP.NO.
Trachurus capensis
Merluccius capensis, female
Merluccius capensis, male
Chlorophthalmus atlanticus
Helicolenus dactylopterus
Coelorinchus fasciatus
Galeus polli
Todarodes sagittatus
Coelorinchus coelorinch. polli
Lophius upsicephalus
Todaropsis eblanae
                                                                                                                                                                              numbers
4376
840
112
                                                                                                                                                                                                                              30.73
3.25
3.22
1.30
0.72
0.65
0.23
                                                                                                                                                                                                                                                                   422
421
                                                                                                                                                                                                                                                                  420
                                                                                                                                                                                                                                  0.06
                                                                                                                                             3015.80
                                                                                                                                                                                                                       100.01
                                                                                                                 GEAR TYPE: BT No:1 POSITION:Lat S 2220
Long E 1256
                                                                                                                                                                                                            PROJECT STATION:1451
                DATE: 9/11/92
               Towing dir: 350 Wire out: 950 m Speed: 33 kn*10
                     Sorted: 142 Kg Total catch: 610.99 CATCH/HOUR: 1182.56
                                                                                                                                                        CATCH/HOUR
                                                                                                                                                                                                          % OF TOT. C SAMP.NO.
Merluccius capensis, female
Merluccius capensis, male
Tradurus capensis
Chlorophthalmus atlanticus
Helicolenus dactylopterus
MYCTOPHIDAE
Galeus polli
Coelorinchus fasciatus
Aristeus varidens
                                                                                                                                               weight
664.14
231.37
207.23
                                                                                                                                                                              numbers
1125
                                                                                                                                                                                                                              56.16
19.57
17.52
                                                                                                                                                                                                                                                                  424
423
425
                                                                                                                                                                                              408
                                                                                                                                                                                                                                2.81
2.37
1.29
0.18
                                                                                                                                                      33.21
27.97
                                                                                                                                                       15.31
2.17
                                                                                                                                                                                                                                  0.05
                                                                                                                                             1182.56
                                                                                                                                                                                                                   100.00
```

Sorted: 294 Kg Total	catch:	293.89	CATCH/H	OUR:	608.05
SPECIES		CATCH/HOUL	R & OH	TOT. C	SAMP.NO.
	we1	ght num	bers		
Merluccius capensis, female	23	5.86	143	38.79	428
Helicolenus dactylopterus	9	7.66	573	16.06	431
Squalus megalops	9	2.69	35	15.24	
Merluccius paradoxus, female	7	3.45	132	12.08	430
Merluccius capensis, male	3	7.24	27	6.12	427
Centrolophus niger	1	5.93	4	2.62	426
Etmopterus lucifer	1	4.40	52	2.37	
Todarodes sagittatus		7.86	106	1.29	
Centrophorus granulosus		7.59	10	1.25	
Galeus polli		7.45	66	1.23	
Deania profundorum		4.59	8	0.75	
Merluccius paradoxus, male		3.21	10	0.53	429
Coelorinchus coelorinch, polli		2.52	68	0.41	
Raja confundens		2.30	2	0.38	
Coelorinchus fasciatus		2.19	19	0.36	
Nezumia milleri		0.81	41	0.13	
Epigonus denticulatus		0.77	23	0.13	
Chlorophthalmus atlanticus		0.70	23	0.12	
Lophius upsicephalus		0.41	2	0.07	432
Selachophidium guentheri		0.23	10	0.04	
Aristeus varidens		0.08	14	0.01	
Notacanthus sexspinis		0.06	4	0.01	
Trachyrinus scabrus		0.04	2	0.01	
Total	60	8.04		100.00	

Sorted: 190 Kg Total catch:	241.91	CATCH/	HOUR:	483.82
SPECIES	CATCH/HOU		OF TOT. C	SAMP.NO.
		nbers		
Deania calcea	201.40	96	41.63	
Merluccius paradoxus, female	162.60	294	33.61	435
Trachyrinus scabrus	45.34	180	9.37	
Merluccius capensis, female	15.00	10	3.10	433
Centrophorus squamosus	14.60	6	3.02	
Centroscymnus crepidater	8.40	8	1.74	
Aristeus varidens	7.54	620	1.56	
Todarodes sagittatus	6.30	16	1.30	
Nezumia milleri	4.96	126	1.03	
Raja confundens	4.04	10	0.84	
Epigonus denticulatus	3.34	100	0.69	
Merluccius paradoxus, male	2.84	10	0.59	434
Hoplostethus cadenati	1.56	104	0.32	
Helicolenus dactylopterus	1.46	10	0.30	
Deania profundorum	1.16	2	0.24	
Yarella blackfordi	1.00	110	0.21	
Galeus polli	0.84	6	0.17	
Shrimps, small, non comm.	0.60	_	0.12	
Notacanthus sexspinis	0.50	16	0.10	
MYCTOPHIDAE	0.26	34	0.05	
Selachophidium guentheri	0.08	4	0.02	
Total	483.82		100.01	

Sorted: 70 Kg Total catch:	175.5	3 CATCH,	HOUR:	351.06
SPECIES	CATCH	HOUR %	OF TOT. C	SAMP.NO.
	weight	numbers		
Merluccius paradoxus, female	159.00	270	45.29	438
Trachyrinus scabrus	124.00	1066	35.32	
Merluccius capensis, female	30.50	16	8.69	436
Helicolenus dactylopterus	11.96	36	3,41	
Todarodes sagittatus	9.00	26	2.56	
Nezumia milleri	4.16	156	1.18	
Deania calcea	3.86	6	1.10	
Merluccius paradoxus, male	2.26	6	0.64	437
Deepwater fish mixture	2.00		0.57	•••
Galeus polli	1.80	20	0.51	
Aristeus varidens	1.06		0.30	
Selachophidium guentheri	1.00	46	0.28	
Chlorophthalmus atlanticus	0.30	10	0.09	
Notacanthus sexspinis	0.16	6	0.05	
Total	351.06		99.99	

		PROJECT STATION:1455
DATE: 10/11/92	GEAR TYPE: BT No:1 PC	DSITION:Lat S 2201
	duration	Long E 1246
TIME :06:26:00 06:55:00	29 (min) Purpose code:	
LOG :3766.20 3767.70	1.70 Area code	
FDEPTH: 351 355	GearCond.code:	_
BDEPTH: 351 355	Validity code:	
Towing dir: 350	Wire out:1050 m Speed: 34	kn*10

Sorted: 157 Kg Total catch: 645.69 CATCH/HOUR: 1335.91

SPECIES	CATCH	CATCH/HOUR %		SAMP.NO.
	weight	numbers		
Merluccius capensis, female	869.79	689	65.11	441
Merluccius capensis, male	295.66	286	22.13	440
Helicolenus dactylopterus	100.97	1320	7.56	443
Schedophilus huttoni	19.37	8	1.45	
Raja confundens	11.67	8	0.87	
Squalus megalops	9.27	8	0.69	
Merluccius paradoxus, female	8.48	35	0.63	442
Epigonus denticulatus	5.09	190	0.38	
Krill	4.34		0.32	
Chlorophthalmus atlanticus	4.14	130	0.31	
Lophius upsicephalus	3.74	2	0.28	439
MYCTOPHIDAE	0.83		0.06	
Galeus polli	0.83	8	0.06	
Todaropsis eblanae	0.50	17	0.04	
Laemonema laureysi	0.50	8	0.04	
Coelorinchus coelorinch, polli	0.41	17	0.03	
Nezumia milleri	0.33	17	0.02	
Total	1335.92		99.98	

PROJECT STATION:	456
	201
	258
TIME :08:42:00 09:11:00 29 (min) Purpose code: 3	
LOG :3781.30 3782.90 1.50 Area code : 2	
FDEPTH: 310 300 GearCond.code:	
BDEPTH: 310 300 Validity code:	
Towing dir: 50 Wire out:1000 m Speed: 30 kn*10	
Sorted: 170 Kg Total catch: 367.02 CATCH/HOUR: 759.3	ó

SPECIES	CATCH	/HOUR %	OF TOT. C	SAMP.NO.
	weight	numbers		
Merluccius capensis, female	414.66	422	54.61	445
Trachurus capensis	111.62	395	14.70	446
MYCTOPHIDAE	82.03	18685	10.80	
Merluccius capensis, male	65.90	112	8.68	444
Chlorophthalmus atlanticus	27.89	906	3.67	
Helicolenus dactylopterus	23.36	1022	3.08	447
Schedophilus huttoni	13.18	4	1.74	
Todarodes sagittatus	9.83	19	1.29	
Galeus polli	4.49	108	0.59	
Hyperoglyphe moselii	1.97	2	0.26	448
Coelorinchus fasciatus	1.70	14	0.22	
Solenocera africana	1.12	323	0.15	
Coelorinchus coelorinch. polli	- 1.03	19	0.14	
Austroglossus microlepis	0.58	2	0.08	449
Total	759.36		100.01	

								PROJEC	CT STA	TIC	N:1457
DATE: 1	0/11/92		GE.P	R TYPE:	BT:	No:1	POS	ITION:	Lat	S	2201
	start	stop (							Long	E	1311
TIME :	:10:45:00	11:14:00	29	(min)	Pur	pose cod	e:	3	-		
LOG :	3794.80	3796.10	1.60		Are	a code	:	2			
FDEPTH:	301	187			Gea	rCond.co	de:				
BDEPTH:	301	187			Val	idity co	de:				
	Towing di	ir: 80	Wire					kn*10			

Sorted: 35 Kg Total catch: 1869.87 CATCH/HOUR: 3868.70

SPECIES	CATCH/HOUR %		OF TOT. C	SAMP.NO.
	weight	numbers		
Merluccius capensis, male	2546.48	22862	65.82	450
Merluccius capensis, female	858.21	5135	22.18	451
Trachurus capensis	443.17	2321	11.46	452
Thyrsites atun	19.34	6	0.50	454
Lophius upsicephalus	1.49	2	0.04	453
Total	3868.69		100.00	

		PROJECT STATION:1458
DATE: 10/11/92	GEAR TYPE: BT No:1	POSITION:Lat S 2200
	duration	Long E 1324
TIME :12:52:00 13:22:00		: 3
LOG :3808.00 3809.70	1.52 Area code	: 2
FDEPTH: 157 150	GearCond.code	e:
BDEPTH: 157 150	Validity code	e:
Towing dir: 85	Wire out: 650 m Speed: 3	31 kn*10

Sorted: 105 Kg Total catch: 747.22 CATCH/HOUR: 1494.44

SPECIES	CATCH/H	OUR &	OF TOT. C	SAMP.NO.
	weight n	umbers		
Merluccius capensis, female	801.60	5664	53.64	458
Merluccius capensis, male	372.00	3888	24.89	457
Trachurus capensis	120.00	912	8.03	459
Merluccius capensis, female	91.40	106	6.12	456
Neoharriotta pinnata	52.08	24	3.48	
Chelidonichthys capensis	29.76	120	1.99	
Sufflogobius bibarbatus	16.56	4104	1.11	
Coelorinchus fasciatus	5.52	48	0.37	
Pterothrissus belloci	3.84	24	0.26	
Merluccius capensis, male	1,20	2	0.08	455
OMMASTREPHIDAE	0.48	24	0.03	
Total	1494.44		100.00	

								]	ROJE	ECT ST	TIO	N:1459
DATE: 1	0/11/92		GEA	R TYPE:	BT	No:1	L 1	POS:	TION	1:Lat	s	2159
	start		durati							Long	E	1345
TIME	:15:56:00	16:06:00	10	(min)	Pur	oose	code	: :	3	•		
LOG	:3830.90	3831.30	0.50				ie					
FDEPTH	: 98	98			Gear	Cond	i. code	e: '				
BDEPTH	: 98	98			Val	dity	code	e:				
	Towing d	ir- 5	Wire	Out · 4					cn#16	3		

SPECIES	CATCH	/HOUR %	OF TOT. C	SAMP.NO.
	weight	numbers		
Sufflogobius bibarbatus	264.00	165150	97.22	
Merluccius capensis, juveniles	7.56	2196	2.78	460
Tot al	271 56		100.00	

Sorted: 8 Kg Total catch: 45.26 CATCH/HOUR: 271.56

DATE:11/11/92 GEAR TYPE: BT No:1 PROJECT STATION:1460

DATE:11/11/92 GEAR TYPE: BT No:1 POSITION:Lat S 2142

TIME :06:21:00 06:52:00 31 (min) Purpose code: 3

LOG :39902.10 3903.50 1.80 Area code : 2

FDEPTH: 144 142 GearCond.code:

Towing dir: 5 Wire out: 600 m Speed: 34 kn\*10

Total catch: 975.80 CATCH/HOUR: 1888.65 Sorted: 28 Kg

SPECIES	CATCH	HOUR %	OF TOT. C	SAMP.NO.
Merluccius capensis, male	we1ght 948.39	numbers	50.22	461
Merluccius capensis, female	928.06	8671	49.14	462
Sufflogobius bibarbatus	8.13	2777	0.43	
Merluccius capensis, juveniles	4.06	135	0.21	
Total	1888.64		100.00	

PROJECT STATION:1461 GEAR TYPE: BT No:1 POSITION:Lat S 2144
retion Long E 1307 DATE: 11/11/92 DATE: 11/11/92 GEAR TYPE: BT No:1 POSITION:
start stop duration
TIME :08:22:00 08:51:00 29 (min) Purpose code: 3
LOG :3914.10 3915.30 1.70 Area code : 2
FDEPTH: 203 223 GearCond.code:
BDEPTH: 203 223 Validity code:
Towling dir: 270 Wire out: 750 m Speed: 33 kn\*10

Sorted: 69 Kg Total catch: 588.68 CATCH/HOUR: 1217.96

SPECIES	CATCH	/HOUR 9	OF TOT. C	SAMP.NO.
	weight	numbers		
Merluccius capensis, male	477.62	2398	39,21	464
Merluccius capensis, female	422.59	1357	34.70	465
Chlorophthalmus atlanticus	212.28	13001	17.43	
Trachurus capensis	57.99	257	4.76	
Helicolenus dactylopterus	23.19	571	1.90	
Thyrsites atun	10.66	2	0.88	
Lophius upsicephalus	5.75	2	0.47	463
Lepidopus caudatus	3.54	39	0.29	
Coelorinchus fasciatus	1.66	21	0.14	
Galeus polli	1.03	21	0.08	
Todaropsis eblanae	0.83	21	0.07	
PORTUNIDAE	0.41	21	0.03	
Maurolicus muelleri	0.21	197	0.02	
Sufflogobius bibarbatus	0.21	79	0.02	
Total	1217.97		100.00	

PROJECT STATION:1462
GEAR TYPE: BT No:1 POSITION:Lat S 2148
ration Long E 1252 DATE: 11/11/92 DATE: 11/11/92 GEAR TYPE: BT No:1 POSITION:
start stop duration
TIME :10:55:00 11:24:00 29 (min) Purpose code: 3
LOG :3829.40 3930.70 1.60 Area code : 2
FDEPTH: 303 302 GearCond.code:
BDEPTH: 303 302 Validity code:
Towing dir: 330 Wire out: 950 m Speed: 33 kn\*10 Sorted: 172 Kg Total catch: 369.15 CATCH/HOUR: 763.76

CATCH/HOUR & OF TOT. C SAMP.NO.
weight numbers
455.44 449 59.63 467
118.34 122 15.49 466
88.30 399 11.56 468
39.46 1217 5.17
35.05 4.59
16.90 852 2.21
4.97 2 0.65
4.22 95 0.55
0.72 31 0.09
0.35 95 0.05 SPECIES Merluccius capensis, female
Merluccius capensis, male
Trachurus capensis
Chlorophthalmus atlanticus
MYCTOPHIDAE
Helicolenus dactylopterus
Trachipterus trachypterus
Galeus polli
Nezumia milleri
Aristeus varidens Aristeus varidens

Total

DATE:11/11/92 GEAR TYPE: BT No:1 POSITION:1463

start stop duration Long E 1241

TIME :13:28:00 13:58:00 30 (min) Puxpose code: 3

LOG :3946.20 3947.60 1.54 Area code : 2

FDEPTH: 368 371 GearCond.code:

BDEPTH: 368 371 Validity code:

Towing dir: 345 Wire out:1100 m Speed: 31 kn\*10

763.75

99.99

Total

Sorted: 26 Kg

Sorted: 168 Kg Total catch:	304.18	CATCH	HOUR:	608.36
SPECIES	CATCH/H weight	OUR %	OF TOT. C	SAMP.NO.
Merluccius capensis, female	264.74	168	43.52	472
Helicolenus dactylopterus	135.66	1484	22.30	
Merluccius paradoxus, female	103.40	184	17.00	474
Merluccius capensis, male	20.54	14	3.38	471
Deepwater fish mixture	18.74		3.08	
Galeus polli	15.98	188	2.63	
Todarodes sagittatus	13.72	34	2.26	
Raja confundens	8.36	8	1.37	
Deania calcea	6.96	8	1.14	
Merluccius paradoxus, male	5.90	18	0.97	473
Schedophilus huttoni	4.92	2	0.81	469
Genypterus capensis	2.40	2	0.39	470
Etmopterus pusillus	1.84	8	0.30	
Nezumia milleri	1.72	36	0.28	
SHRIMPS	1.10		0.18	
Epigonus denticulatus	0.74	18	0.12	
Selachophidium quentheri	0.56	18	0.09	
Coelorinchus fasciatus	0.36	- 8	0.06	
Chlorophthalmus atlanticus	0.36	12	0.06	
Notacanthus sexspinis	0.18	4	0.03	
Hoplostethus cadenati	0.18	8	0.03	
Total	608.36		100.00	

PROJECT STATION:1464
DATE:11/11/92 GEAR TYPE: BT No:1 POSITION:Lat S 2130
start stop duration Long E 1249
TIME :15:31:00 16:01:00 30 (min) Purpose code: 3
LOG :3958.30 3959.80 1.68 Area code : 2
FDEPTH: 307 310 GearCond.code:
BDEPTH: 307 310 Validity code:
Towing dir: 350 Wire out: 950 m Speed: 32 kn*10
Sorted: 157 Kg Total catch: 338.96 CATCH/HOUR: 677.92

SPECIES	CATCH/		OF TOT. C	SAMP.NO.
	weight	numbers		
Merluccius capensis, female	411.24	368	60.66	479
Merluccius capensis, male	107.04	156	15.79	478
Chlorophthalmus atlanticus	71.06	2054	10.48	
MYCTOPHIDAE	36.80		5.43	
Helicolenus dactylopterus	16.78	780	2.48	
Galeus polli	11.00	182	1.62	
Trachurus capensis	9.32	34	1.37	475
Krill	6.50		0.96	
Aristeus varidens	4.76		0.70	
Lophius upsicephalus	1.88	2	0.28	476
Hoplostethus cadenati	0.60	4	0.09	
Coelorinchus fasciatus	0.60	26	0.09	
Nezumia milleri	0.26	22	0.04	
PORTUNIDAE	0.08	4	0.01	
Total	677.92		100.00	

PROJECT STATION:1465
DATE:11/11/92 GEAR TYPE: BT No:1 POSITION:Lat S 2126
start stop duration Long E 1259
TIME :17:36:00 18:12:00 36 (min) Purpose code: 3
LOG :3972.10 3973.70 1.90 Area code : 2
FDEPTH: 250 250 GearCond.code:
BDEPTH: 250 250 Validity code:
Towing dir: 350 Wire out: 900 m Speed: 30 kn*10
Sorted: 147 Kg Total catch: 608.97 CATCH/HOUR: 1014.95

SPECIES	- CATCH	/HOUR %	OF TOT. C	SAMP.NO.
	weight	numbers		
Merluccius capensis, female	385.00	637	37.93	482
Merluccius capensis, male	335.30	1247	33.04	481
Chlorophthalmus atlanticus	174.30	8118	17.17	
Trachurus capensis	70.00	357	6.90	483
Helicolenus dactylopterus	25.07	1075	2.47	
MYCTOPHIDAE	17.50		1.72	
Lophius upsicephalus	3.65	3	0.36	480
Galeus polli	1.12	35	0.11	
Sufflogobius bibarbatus	0.83	175	0.08	
Todaropsis eblanae	0.63	13	0.06	
Solenocera africana	0.63	98	0.06	
Lophius upsicephalus	0.57	13	0.06	
Synagrops microlepis	0.35	13	0.03	
Total	1014.95		99.99	

212	s	Lat	SITION:	PO	T No:1	PE:	AR T	GE				/92	/11	E:11	DAT
130	E	Long						durat		stor		tar			
		-	3	code:	rpose	) P	(mi	30	3:00	19:59	00	29:	19:	E:	TIM
			2	e :	ea cod	A		1.70	.00	3984.	0	2.5	398	:	LOG
				. code:	arCond	G			50	1	1	15		PTH:	FDE
				code:	lidity	v			50	1	1	15		PTH:	BDE
			kn*10	ed: 33	m Spe	650	out	Wire	55	r: 35	di	ina	Tow		

SPECIES	CATCH/		OF TOT. C	SAMP.NO.
Merluccius capensis, female	weight 1232.00	numbers 9968	42.13	405
Merluccius capensis, male	952.00	9072	32.55	485 484
Trachurus capensis	672.00	4816	22.98	486
Chelidonichthys capensis	45.92	112	1.57	
Pterothrissus belloci Todaropsis eblanae	19.04 2.24	336	0.65	
Merluccius capensis, juveniles	1.12	112 336	0.08	
Juveniles	1.12	330	0.04	

				PROJ	ECT STA	TIO	N:1467
DATE:12/11/92	GE#	AR TYPE: B	T No:1	POSITION	N:Lat	S	2119
start	stop durati	lon			Long	E	1315
TIME :06:26:00	06:55:00 29	(min) Pu	rpose code	e: 3	-		
LOG :4005.10	4006.30 1.60	Ar	ea code	: 2			
FDEPTH: 122	122	Ge	arCond.co	de:			
BDEPTH: 122	122	Va	lidity co	de:			
Towing di	r: 350 Wire				0		

2924.32

Total catch: 600.36 CATCH/HOUR: 1242.12

100.00

SPECIES	CATCH		OF TOT. C	SAMP.NO.
	weight	numbers		
Merluccius capensis, male	615.52	6879	49.55	487
Merluccius capensis, female	610.34	5948	49.14	488
Trachurus capensis	5.69	52	0.46	
Merluccius capensis, juveniles	5.69	207	0.46	
Callorhinchus capensis	4.88	2	0.39	
Total	1242.12		100.00	

			PROJECT ST	ATIC	N:146
DATE: 12/11/92	GEA	R TYPE: BT No	:1 POSITION:Lat	S	2101
start	stop durati	.on	Long	E	1308
TIME :10:44:00	11:05:00 21	(min) Purpose	e code: 3		
LOG :4040.90	4041.80 1.20	Area c	ode : 2		
FDEPTH: 119	117	GearCo	nd.code:		
BDEPTH: 119	117	Validi	ty code:		
Towing d	ir: 355 Wire				

Sorted: 36 Kg Total catch: 804.21 CATCH/HOUR: 2297.74

SPECIES	CATCH	/HOUR %	OF TOT. C	SAMP.NO.
	weight	numbers		
Merluccius capensis, female	1268.57	16371	55.21	490
Merluccius capensis, male	942.86	12686	41.03	489
Chelidonichthys capensis	31.71	86	1.38	
Callorhinchus capensis	27.71	20	1.21	
Merluccius capensis, juveniles	14.57	771	0.63	
Trachurus capensis	11.14	86	0.48	
Sufflogobius bibarbatus	0.86	86	0.04	
Lophius upsicephalus	0.31	3	0.01	
Total	2297.73		99.99	

PROJECT STATION:1469 GEAR TYPE: BT No:1 POSITION:Lat DATE:12/11/92 Lat S 2105 Long E 1356

DATE:12/11/92 GEAR TYPE: BT No:1 POSITION
start stop duration
TIME :13:14:00 13:44:00 30 (min) Purpose code: 3
LOG :4057.50 4058.70 1.66 Area code : 2
FDEPTH: 248 245 GearCond.code:
BDEPTH: 248 245 Validity code:
Towing dir: 350 Wire out: 850 m Speed: 34 km 10

Sorted: 138 Kg Total catch: 530.45 CATCH/HCUR: 1060.90

SPECIES	CATCH	HOUR	OF TOT. C	SAMP.NO.
	weight	numbers		
Merluccius capensis, female	335.40	990	31.61	494
Merluccius capensis, male	297.18	1334	28.01	493
Trachurus capensis	205.14	1058	19.34	492
Chlorophthalmus atlanticus	163.02	6368	15.37	
Galeus polli	31.66	734	2.98	
Helicolenus dactylopterus	16.00	444	1.51	
Lophius upsicephalus	5.46	10	0.51	491
Pterothrissus belloci	3.52	24	0.33	
Sufflogobius bibarbatus	2.58	570	0.24	
Coelorinchus fasciatus	0.94	16	0.09	
Total	1060.90		99.99	

Sorted: 216 Kg Total catch: 1000.95 CATCH/HOUR: 2001.90

SPECIES	CATCH	/HOUR %	OF TOT. C	SAMP.NO.
	weight	numbers		
Merluccius capensis, female	1407.08	1254	70.29	498
Merluccius capensis, male	372.34	474	18.60	497
MYCTOPHIDAE	136.80		6.83	
Trachipterus trachypterus	34.00	10	1.70	
Todarodes sagittatus	20.58	62	1.03	
Schedophilus huttoni	10.14	4	0.51	496
Raja leopardus	5,76	2	0.29	,,,,
Chlorophthalmus atlanticus	5,56	154	0.28	
Helicolenus dactylopterus	4.32	278	0.22	
Brama brama	2.14	2	0.11	495
Galeus polli	2.06	42	0.10	
Nezumia milleri	0.92	30	0.05	
Aristeus varidens	0.20	62	0.01	
Total	2001.90		100.02	

Total catch: 273.12 CATCH/HOUR: 546.24

0.01

100.01

Sorted: 165 Kg

CATCH/HOUR & OF TOT. C SAMP.NO. CATCH/ Weight 267.00 130.00 63.40 40.00 18.40 9.00 7.10 4.00 2.38 2.00 1.62 0.60 0.40 0.16 0.10 numbers 254 130 770 Merluccius capensis, female Merluccius capensis, male Helicolenus dactylopterus Merluccius paradoxus, female Chlorophthalmus atlanticus 48.88 23.80 11.61 7.32 3.37 1.65 1.30 0.73 0.44 0.37 0.30 0.11 0.07 Chlorophthalmus atlant Krill Galeus polli Epigonus denticulatus Raja confundens Todarodes sagittatus Lophius upsicephalus Nezumia milleri 10 2 22 10 4 499 Goelorinchus coelorinch, polli Hoplostethus cadenati Solenocera africana Nansenia tenera 20 0.10

PROJECT STATION:1472
GEAR TYPE: BT No:1 POSITION:Lat S 2110
ration Long E 1231 DATE:12/11/92 DATE:12/11/92 GEAR TYPE: BT No:1 POSITION:

start stop duration

TIME :20:05:00 20:33:00 28 (min) Purpose code: 3
LOG :4095.50 4096.80 1.50 Area code : 2
FDEPTH: 455 464 GearCond.code:
BDEPTH: 455 464 Validity code:
Towing dir: 355 Wire out:1200 m Speed: 32 kn\*10

546.24

Sorted: 141 Kg Total catch:	141.25	CATCH	HOUR:	302.68
SPECIES	CATCH/H	OUR %	OF TOT. C	SAMP.NO.
Merluccius paradoxus, female	114.86	208	37.95	506
Merluccius capensis, female	88.93	62	29.38	504
Trachyrinus scabrus	56.36	311	18.62	204
Helicolenus dactylopterus	14.36	92		
Todarodes sagittatus	7.33		4.74	
MYCTOPHIDAE		30	2.42	
	4.29		1.42	
Hoplostethus cadenati	3.62	264	1.20	
Merluccius paradoxus, male	3.34	6	1.10	505
Merluccius capensis, male	2.36	2	0.78	503
Deepwater fish mixture	1.93		0.64	
Aristeus varidens	1.91	193	0.63	
Galeus polli	0.84	13	0.28	
Centrophorus squamosus	0.77	2	0.25	
Epigonus telescopus	0.64	4	0.21	
Nezumia milleri	0.51	47	0.17	
Epigonus denticulatus	0.28	30	0.09	
Chlorophthalmus atlanticus	0.24	6	0.08	
Raja confundens	0.13	2	0.04	
Total	302.70		100.00	

Sorted: 163 Kg

Total catch: 266.03 CATCH/HOUR: 532.06

SPECIES	CATCH	/HOUR %	OF TOT. C	SAMP.NO.
	weight	numbers		
Merluccius paradoxus, female	197.80	356	37.18	510
Hoplostethus cadenati	120.00		22.55	
Trachyrinus scabrus	79.00		14.85	
Merluccius capensis, female	50.00	36	9.40	508
Merluccius capensis, male	18.00	16	3.38	507
Raja confundens	13.10	20	2.46	
Yarella blackfordi	10.20		1.92	
Shrimps, small, non comm.	8.70		1.64	
Nezumia milleri	7.50	380	1.41	
Merluccius paradoxus, male	5.96	4	1.12	509
Helicolenus dactylopterus	5.80	30	1.09	
Deania profundorum	5.70	10	1.07	
Aristeus varidens	4.70	470	0.88	
Zenopsis conchifer	2.60	2	0.49	
Notacanthus sexspinis	0.90	30	0.17	
Todarodes sagittatus	0.70	10	0.13	
Thysanoteuthis rhombus	0.50	10	0.09	
Lycoteuthis diadema	0.50	10	0.09	
Argyropepecus affinis	0.20	30	0.04	
Galeus polli	0.20	30	0.04	
Total	532.06		100.00	

	PROJECT STATION:1474
DATE: 23/11/92 GEAR TY	PE: BT No:1 POSITION:Lat S 2042
start stop duration	Long E 1307
TIME :08:43:00 09:14:00 31 (min	
LOG :4465.20 4466.60 1.60	Area code : 3
FDEPTH: 112 112	GearCond.code:
BDEPTH: 112 112	Validity code:
Towing dir: 335 Wire out:	450 m Speed: 31 kn*10
Sorted: 28 Kg Total catch:	336.60 CATCH/HOUR: 651.48
SPECIES	CATCH/HOUR & OF TOT. C SAMP.NO.
M	weight numbers
Merluccius capensis, male	276.39 3763 42.42 511
Merluccius capensis, female	246.19 3321 37.79 512
Trachurus capensis	125.42 906 19.25 513
Sufflogobius bibarbatus	3.48 813 0.53
Total	651.48 99.99

Total catch: 954.96 CATCH/HOUR: 2291.90 Sorted: 52 Kg

SPECIES	CATCH	/HOUR	OF TOT. C	SAMP.NO.
	weight	numbers		
Merluccius capensis, male	1080.00	10066	47.12	516
Merluccius capensis, female	889.92	7430	38.83	517
Trachurus capensis	267.84	1858	11.69	518
Merluccius capensis, female	24.00	26	1.05	515
Merluccius capensis, male	12.00	10	0.52	514
Dentex macrophthalmus	8.21	43	0.36	
Pterothrissus belloci	6.91	43	0.30	
Todaropsis eblanae	1.30	43	0.06	
Chlorophthalmus atlanticus	1.30	86	0.06	
Sufflogobius bibarbatus	0.43	86	0.02	
Total	2291.91		100.01	

PROJECT STATION:1476 GEAR TYPE: BT No:1 POSITION: Lat S 2047 Long E 1248 DATE: 23/11/92 DATE: 23/11/92 GEAR TYPE: BT No:1 POSITION:

start stop duration

TIME :12:45:00 13:15:00 30 (min) Purpose code: 3

LOG :4493.10 4494.60 1.58 Area code : 7

FDEPTH: 255 252 GearCond.code:

BDEPTH: 255 252 Validity code:

Towing dir: 320 Wire out: 850 m Speed: 30 kn\*10

Total catch: 490.22 CATCH/HOUR:

980.44

Sorted: 161 Kg

SPECIES	CATCH	/HOUR 1	OF TOT. C	SAMP.NO.
	weight	numbers		
Merluccius capensis, female	393.00	558	40.08	520
Merluccius capensis, male	195.00	414	19.89	519
MYCTOPHIDAE	150.00		15.30	
Chlorophthalmus punctatus	88.20	4114	9.00	
Trachurus capensis	60.00	258	6.12	521
Galeus polli	26.82	708	2.74	
Helicolenus dactylopterus	22.80	666	2.33	
Pterothrissus belloci	13.38	66	1.36	
Lepidopus caudatus	12.00	4	1.22	
Solenocera africana	7.62		0.78	
Todarodes sagittatus	7.38	42	0.75	
Sufflogobius bibarbatus	1.98	258	0.20	
Lophius upsicephalus	1.60	4	0.16	
PORTUNIDAE	0.60	12	0.06	
Coelorinchus fasciatus	0.06	6	0.01	
Total	980.44		100.00	

start stop duratic TIME :14:42:00 15:12:00 30 ( LOG :4506:10 4507.60 1.72 FDEPTH: 327 324 BDEPTH: 327 324	CTYPE: BT No:1 POSI in min) Purpose code: 3 Area code: 7 GearCond.code: Validity code: ut:1000 m Speed: 33 k.		start stop duraty TIME :10:33:00 11:05:00 32 LOG :4670.50 4671.90 1.70 FDEPTH: 145 150 BDEPTH: 145 150	(min) Purpose cod Area code GearCond.cc Validity co out: 600 m Speed:	de: 3 : 4 ode: ode: : 33 kn*10	TION:1481 S 1951 E 1227
Chrothe						
Merluccius capensis, female Merluccius capensis, male Helicolenus dactylopterus Lophius upsicephalus Merluccius paradoxus, female MYCTOPHIDAE Schedophilus huttoni Galeus polli Trachurus capensis Chlorophthalmus punctatus Todarodes sagittatus Nezumia milleri Coelorinchus fasciatus Solenocera africana Epigonus denticulatus Hoplostethus cadenati PORTUNIDAE	CATCH/HOUR \$ 490.00 434 44.66 182 21.70 1162 18.00 12 16.48 60 8.92 5.54 2 4.52 94 4.10 14 3.64 102 3.36 4 1.36 80 1.12 14 0.60 0.56 46 0.28 4 0.18 4	OF TOT. C SAMP.NO.  67.58 523 19.95 522 2.99 2.48 2.27 524 1.23 0.76 0.62 0.57 0.50 0.46 0.19 0.15 0.08 0.08 0.08 0.04	Trachurus capensis Dentex macrophthalmus Merluccius capensis, female Merluccius capensis, female Pterothrissus belloci Synagrops microlepis Merluccius capensis, male Thyrsites atun Sufflogobius bibarbatus Chlorophthalmus atlanticus Todaropsis eblanae Austroglossus microlepis Total	734.06 3 46.97 21.56 16.03		SAMP.NO. 543 542 539 540 538 541
Total	725.02	99.97				
start stop duratio TIME :16:58:00 17:28:00 30 ( LOG :4522.30 4523.70 1.70 FDEPTH: 382 376 BDEFTH: 382 376	TYPE: BT No:1 POSIT	COJECT STATION:1478 CON:Lat S 2054 Long E 1229	start stop durati TIME :12:30:00 13:00:00 30 LOG :4682.80 4684.20 1.66 FDEPTH: 214 215 BDEPTH: 214 215	(min) Purpose cod Area code GearCond.co Validity co out: 800 m Speed: tch: 175.73	le: 3 cde: 4 cde: cde: 33 kn*10 CATCH/HOUR: 3	S 1954 E 1217
Sorted: 235 Kg Total cat				CATCH/HOUR weight numb	ers	SAMP.NO.
SPECIES  Merluccius capensis, female Helicolenus dactylopterus Merluccius paradoxus, female Merluccius capensis, male Deania profundorum Krill Todarodes sagittatus Schedophilus huttoni Neoharriotta pinnata Trachyrinus scabrus Raja confundens		HOUR: 528.08  OF TOT. C SAMP.NO.  56.96 526 14.69 11.02 927 8.82 525 3.58 1.14 1.01 0.87 0.44 0.31	Trachurus capensis Merluccius capensis, female Merluccius capensis, female Pterothrissus belloci Sufflogobius bibarbatus Merluccius capensis, male Merluccius capensis, male Krill Galeus polli Todaropsis eblanae Chlorophthalmus punctatus Total	106.20 51.00 51.00 50.40 39.78 3	624 30.22 44 14.51 300 14.34 618 11.32 186 11.10 0.68 12 0.15 6 0.03 6 0.03 99.99	548 547 545 544 546
Nezumia milleri Galeus polli Chlorophthalmus atlanticus Epigonus denticulatus MYCTOPHIDAE Laemonema laureysi Ophisurus serpens	1.32 44 1.28 16 0.76 24 0.56 36 0.28 72 0.12 4 0.08 4	0.25 0.24 0.14 0.11 0.05 0.02	start stop duration	(min) Purpose code	e: 3	
PORTUNIDAE Total	528.08	99.99	LOG :4699.80 4701.30 1.66 FDEFTH: 298 302 BDEPTH: 298 302 Towing dir: 335 Wire of Sorted: 160 Kg Total can	Area code GearCond.co Validity co out: 950 m Speed: tch: 738.10 6	de: 32 kn*10	76.20
FORTUNIDAE Total	O.04  528.08  PR TYPE: BT No:1 POSIT  inin) Purpose code: 3 Area code: 7 GearCond.code: Validity code: it:1000 m Speed: 33 kn	0.01 99.99 OJECT STATION:1479 ION:Lat S 2047 Long E 1227	FDEPTH: 298 302 BDEPTH: 298 302 Towing dir: 335 Wire of the second secon	GearCond. com Validity com out: 950 m Speed: tch: 738.10 G  CATCH/HOUR Weight numbe 895.50 11 201.60 : 83.52 5; 74.70 44.46 20.00 8.46 7.20 4.96	de: de: 32 kn*10 CATCH/HOUR: 14	
DATE:23/11/92 GEAR start stop duration TIME :18:25:00 18:56:00 31 (n LOG :4528.90 4530.50 1.80 FDEPTH: 337 330 BDEPTH: 337 330 Wire out Sorted: 165 Kg Total catc  SPECIES  Merluccius capensis, female Merluccius capensis, male Helicolenus dactylopterus MYCTOPHIDAE Trachurus capensis Merluccius paradoxus, female Todarodes sagitatus Chlorophthalmus atlanticus Lophius upsicephalus Epigonus denticulatus Coelorinchus fasciatus	0.04  528.08  TYPE: BT No:1 POSIT  In Purpose code: 3 Area code: 7 GearCond.code: Validity code: at:1000 m Speed: 33 kn  th: 341.26 CATCH/  CATCH/HOUR to CATCH/AUR  weight numbers 346.84 277 141.87 149 92.32 1912 26.13 16.84 56 15.88 37 4.26 15 3.15 81 2.90 2 2.46 137 2.32 29	0.01 99.99 OJECT STATION:1479 ION:Lat S 2047 Long E 1227 *10 HOUR: 660.50 OF TOT. C SAMP.NO. 52.51 531 21.48 530 13.98 3.96 2.55 533 2.37 532 0.64 0.48 0.44 529 0.37 0.35	FDEPTH: 298 302 BDEPTH: 298 302 Towing dir: 335 Wire of the control of the contro	GearCond. convalidity concut: 950 m Speed: tch: 738.10 CATCH/HOUR weight number 895.50 1122.40 .122.40 .122.40 .122.40 .122.40 .14.46 .14.60 .	de: de: 32 kn*10  CATCH/HOUR: 14'	SAMP.NO. 550 549
DATE:23/11/92 GEAR start stop duration TIME :18:25:00 18:56:00 31 (n LOG :4528.90 4530.50 1.80 FOEPTH: 337 330 BDEPTH: 337 330 Towing dir: 330 Wire ou Sorted: 165 Kg Total cate  SPECIES Merluccius capensis, female Merluccius dactylopterus MCTOPHIDAE Trachurus capensis, maie Helicolenus dactylopterus MCTOPHIDAE Trachurus capensis Merluccius paradoxus, female Todarodes sagittatus Chlorophthalmus atlanticus Lophius upsicephalus Epigonus denticulatus	0.04  528.08  PR TYPE: BT No:1 POSIT  Ann) Purpose code: 3 Area code: 7 GearCond.code: Validity code: at:1000 m Speed: 33 kn  ch: 341.26 CATCH/  CATCH/HOUR to CATCH/  CATCH/HOUR to CATCH/  CATCH/HOUR to CATCH/  26.13 16.84 56 15.68 37 4.26 15 3.15 81 2.90 2 2.46 137	0.01 99.99 OJECT STATION:1479 ION:Lat S 2047 Long E 1227 *10 HOUR: 660.50 OF TOT. C SAMP.NO. 52.51 531 21.48 530 13.98 2.55 533 2.37 532 0.64 0.44 529 0.37	FDEPTH: 298 302 BDEPTH: 298 302 Towing dir: 335 Wire of a consistent of the consiste	GearCond. com Validity com out: 950 m Speed: tch: 738.10 (  CATCH/HOUR Weight numb 895.50 11 201.60 : 122.40 ! 83.52 5: 74.70 44.46 16 20.00 8.46 7.20 4.96 3.96 3.82 3.70 0.90 0.46 0.28 0.18 0.10  1476.20  R TYPE: BT No:1 out of the condent of th	de: de: de: 32 kn*10  CATCH/HOUR: 14  OF TOT. C  ers 054 60.66 6342 13.66 568 8.29 574 5.06 6666 3.01 38 1.35 90 0.57 4 0.34 4 0.34 2 0.26 2 0.26 2 0.26 2 0.26 18 0.03 10 0.02 10 0.01  PROJECT STATI POSITION:Lat S i: 3 ie: ie: 32 kn*10	SAMP.NO. 550 549 551 600:1484 6: 2003 2: 1155
DATE:23/11/92 GEAR start stop duration TIME :18:25:00 18:56:00 31 (n LOG :45:29.00 4530.50 1.80 FEDEPTH: 337 330 BDEPTH: 337 330 Wire out Sorted: 165 Kg Total catc  SPECIES  Merluccius capensis, female Merluccius capensis, male Helicolenus dactylopterus MYCTOPHIDAE Trachurus capensis Merluccius paradoxus, female Todarodes sagittatus Chlorophthalmus atlanticus Lophius upsicephalus Epigonus denticulatus Coelorinchus fasciatus Galeus polli Genypterus capensis Nezumia milleri Laemonema laureysi Shrimps, small, non comm. Solenocera africana	0.04  528.08  PR TYPE: BT No:1 POSIT  Anin) Purpose code: 3 Area code: 7 GearCond.code: Validity code: at:1000 m Speed: 33 kn  ch: 341.26 CATCH/  CATCH/HOUR to CATCH/  141.87 149 92.32 1912 26.13 16.84 56 15.68 37 4.26 15 3.15 81 2.90 2 2.46 137 2.32 29 1.97 19 1.68 2 1.107 19 1.68 2 1.107 19 1.68 15 0.17 45 0.08 19	0.01 99.99 OJECT STATION:1479 ION:Lat S 2047 Long E 1227 *10 HOUR: 660.50 OF TOT. C SAMP.NO. 52.51 531 21.48 530 13.98 530 13.98 2.55 533 2.37 532 0.64 0.44 529 0.37 0.35 0.30 0.25 528 0.18 0.10 0.03 0.01	FDEPTH: 298 302 BDEPTH: 298 302 Towing dir: 335 Wire of a case of	GearCond. com Validity com out: 950 m Speed: tch: 738.10 (  CATCH/HOUR Weight numb 895.50 11 201.60 : 122.40 ! 83.52 5: 74.70 44.46 16 20.00 8.46 7.20 4.96 3.96 3.82 3.70 0.90 0.46 0.28 0.18 0.10  1476.20  R TYPE: BT No:1 out of the condent of th	de: de: de: 32 kn*10  CATCH/HOUR: 14  OF TOT. C  ers 054 60.66 6342 13.66 568 8.29 574 5.06 6666 3.01 38 1.35 90 0.57 4 0.34 4 0.34 2 0.26 2 0.26 2 0.26 2 0.26 18 0.03 10 0.02 10 0.01  PROJECT STATI POSITION:Lat S i: 3 ie: ie: 32 kn*10	SAMP.NO. 550 549 551 (ON:1484 5 2003
DATE: 23/11/92 GEAR start stop duration TIME :18:25:00 18:56:00 31 (n LOG :45:28:90 45:30.50 1.80 FDEPPH: 337 330 BDEPTH: 337 330 Wire ou Sorted: 165 Kg Total cate  SPECIES  Merluccius capensis, female Merluccius capensis, male Helicolenus dactylopterus MYCTOPHIDAE Trachurus capensis Merluccius paradoxus, female Todarodes sagittatus Chlorophthalmus atlanticus Lophius upsicephalus Epigonus denticulatus Coelorinchus fasciatus Galeus polli Genypterus capensis Nezumia milleri Laemonema laureysi Shrimps, small, non comm. Solenocera africana Total	0.04  528.08  TYPE: BT No:1 POSIT  Ann) Purpose code: 3 Area code : 7 GearCond.code: Validity code: 33 kn  ch: 341.26 CATCH/HOUR % C weight numbers 346.84 277 141.87 149 92.32 1912 26.13 16.84 56 15.68 37 4.26 15 3.15 81 2.90 2 2.46 137 2.32 29 1.97 19 1.68 2 2.46 15 3.15 81 2.90 2 2.46 15 3.15 81 2.90 2 2.46 15 3.15 81 2.90 2 2.46 15 3.15 81 2.90 2 2.46 15 3.15 81 2.90 2 2.46 15 3.15 81 2.90 2 2.46 15 3.15 81 2.90 2 2.46 15 3.15 81 2.90 2 2.46 15 3.15 81 2.90 2 2.46 15 3.15 81 2.90 2 2.46 15 3.15 81 2.90 2 2.46 15 3.15 81 2.90 2 2.46 15 3.15 81 2.90 2 2.46 15 3.15 81 2.90 2 2.46 2 2.66 15 0.08 19  FYPE: BT No:1 POSITI  in) Purpose code: 3 Area code : 2 GearCond.code: Validity code: 34 kn 4 validity code: 400 m Speed: 34 kn 4 validity code: 400 m Speed: 34 kn 4 validity code: 400 m Speed: 34 kn 4 validity code: 34 kn	0.01  99.99  OJECT STATION:1479 ION:Lat S 2047 Long E 1227  *10  HOUR: 660.50  OF TOT. C SAMP.NO.  52.51 531 21.48 530 13.98 2.37 532 0.64 0.48 0.44 529 0.37 0.35 0.30 0.25 528 0.18 0.10 0.03 0.01  100.00  OJECT STATION:1480 CON:Lat S 1955 Long E 1241	FDEPTH: 298 302 BDEPTH: 298 302 Towing dir: 335 Wire of Sorted: 160 Kg Total can specify the state of the sta	GearCond. coc validity coc out: 950 m Speed: tch: 738.10 CATCH/HOUR weight number 895.50 11 201.60 122.40 1	de: de: de: 32 kn*10  CATCH/HOUR: 14'	SAMP.NO. 550 549 551  CON:1484 6 2003 2 1155
DATE: 23/11/92 GEAR start stop duration TIME :18:25:00 18:56:00 31 (n LOG :4528.90 4530.50 1.80 FDEPTH: 337 330 BDEPTH: 337 330 Towing dir: 330 Wire out Sorted: 165 Kg Total cate Merluccius capensis, female Merluccius capensis, male Helicolenus dactylopterus MYCTOPHIDAE Trachurus capensis Merluccius paradoxus, female Todarodes sagittatus Chlorophthalmus atlanticus Lophius upsicephalus Epigonus denticulatus Coelorinchus fasciatus Galeus polii Genypterus capensis Nezumia milleri Laemonema laureysi Shrimps, small, non comm. Solenocera africana Total  DATE: 24/11/92 GEAR : Start stop duration TIME :00:39:00 09:09:00 30 (m LOG :4656.60 4657.90 1.80 FDEFTH: 113 116 BDEFTH: 113 116 BDEFTH: 113 116 Towing dir: 280 Wire out	0.04  528.08  TYPE: BT No:1 POSIT  Anin) Purpose code: 3 Area code: 7 GearCond.code: Validity code: at:1000 m Speed: 33 kn  Ch: 341.26 CATCH/  CATCH/HOUR to CATCH/H  C	0.01  99.99  OJECT STATION:1479 ION:Lat S 2047 Long E 1227  *10  HOUR: 660.50  OF TOT. C SAMP.NO.  52.51 531 21.48 530 13.98 2.37 532 0.64 0.48 0.44 529 0.37 0.35 0.30 0.25 528 0.18 0.10 0.03 0.01  100.00  OJECT STATION:1480 CON:Lat S 1955 Long E 1241	FDEPTH: 298 302 BDEPTH: 298 302 Towing dir: 335 Wire of Sorted: 160 Kg Total can see the following dir: 335 Wire of Species and see the following director of the following darylopterus trachurus capensis, male Pterothrissus belloci Helicolenus dactylopterus trachurus capensis Chlorophthalmus punctatus Todarodes sagittatus Galeus polli Solenocera africana Lophius upsicephalus MYCTOPHIDAE Schedophilus huttoni Nemichthys scolopacea Krill Nezumia milleri Hoplostethus cadenati Coelorinchus fasciatus Sufflogobius bibarbatus Total  DATE: 24/11/92 GEAR Start stop duratio Time: 17:00:00 17:30:00 30 LOG: 4713.00 4714.30 1.57 FDEPTH: 370 372 Towing dir: 335 Wire of Sorted: 28 Kg Total cat SPECIES  Merluccius capensis, female Helicolenus dactylopterus Merluccius capensis, male Galeus polli Neoharriotta pinnata Hoplostethus cadenati Raja confundens Yarella blackfordi	GearCond. convalidity concount: 950 m Speed: tch: 738.10 (CATCH/HOUR weight number speed: 122.40 ! 83.52 5: 74.70	de: de: de: 32 kn*10  CATCH/HOUR: 14  OF TOT. C  ers 5054 60.66 568 8.29 574 5.06 666 3.01 38 1.35 90 0.57 4 0.27 2 0.26 2 0.25 10 0.01  10 0.01  PROJECT STATI POSITION: Lat S 1: 8 te: 10 32 kn*10  ATCH/HOUR: 32  OF TOT. C S 18  OF TOT. C	SAMP.NO. 550 549 551  CON:1484 6: 2003 2: 1155

100.01

DATE: 24/11/92 GEAR TYPE: BT No:1 POSITION: 1485
start stop duration Long E 1152
TIME : 18:34:00 19:03:00 29 (min) Purpose code: 3
LOG : 47/21,00 47/22,60 1.60 Area code : 8
FDEPTH: 366 366 GearCond.code:
BDEPTH: 366 366 Validity code:
Towing dir: 345 Wire out: 1050 m Speed: 31 kn\*10

Sorted: 144 Kg Total catch: 169.68 CATCH/HOUR: 351.06

SPECIES	CATCH	/HOUR	S OF TOT. C	SAMP.NO
	weight	numbers		
Merluccius capensis, female	140.28	95	39.96	556
Merluccius paradoxus, female	84.00	137	23.93	558
Helicolenus dactylopterus	52.14	1521	14.85	
Merluccius capensis, male	23.59	23	6.72	555
Neoharriotta pinnata	13.03	6	3.71	
Yarella blackfordi	11.17		3.18	
Galeus polli	8.44	81	2.40	
Todarodes sagittatus	6.08	14	1.73	
Hoplostethus cadenati	3.54	230	1.01	
Raja confundens	2.17	2	0.62	
Aristeus varidens	1.86	323	0.53	
Nezumia milleri	1.37	68	0.39	
Deepwater fish mixture	1.24		0.35	
Merluccius paradoxus, male	1.10	2	0.31	557
Coelorinchus coelorinch, polli	0.43	12	0.12	
Chlorophthalmus atlanticus	0.37	12	0.11	
Epigonus denticulatus	0.25	12	0.07	
Total	351.06		99.99	

			PROJECT ST	ATIC	N:1486
DATE: 25/11/92	GE	AR TYPE: BT No	o:1 POSITION:Lat	s	1858
start	stop durat	ion	Lone	E	1159
TIME :06:27:00	06:57:00 30	(min) Purpos	se code: 3		
LOG : 4789.50	4791.00 1.60	Area	code : 7		
FDEPTH: 164	190	GearCo	ond.code:		
BDEPTH: 164	190	Valid	lty code:		
Towing o	iir: 350 Wire	out: 700 m s	Speed: 31 kn*10		

Sorted: 76 Kg Total catch: 380.10 CATCH/HOUR: 760.20

SPECIES	CATCH/HOUR		S OF TOT. C	SAMP.NO.
	weight	numbers		
Dentex macrophthalmus	292.00	1400	38.41	561
Merluccius capensis, female	162.00	590	21.31	560
Pterothrissus belloci	138.00		18.15	
Merluccius capensis, male	94.00	360	12.37	559
Trachurus capensis	43.00	300	5.66	562
Trigla lyra	24.00	100	3.16	
Chlorophthalmus atlanticus	3.50	160	0.46	
Perulibatrachus rossignoli	2.60	10	0.34	
Sufflogobius bibarbatus	1.10	310	0.14	
Solenocera africana	0.00	10		
Total	760.20		100.00	

Total

								PROJE	CT STA	TIC	N:1487
DATE: 2	5/11	/92		GE.	R TYPE	: BT No:1	PO	SITION	:Lat	s	1858
		start		durati					Long	E	1154
TIME	:08:	01:00	08:31:00	30	(min)	Purpose	code:	3	-		
LOG	: 479	7.00	4798.30	1.60		Area cod	e :	7			
FDEPTH	:	235	235			GearCond	.code:				
BDEPTH	:	235	235			Validity	code:				
	Tow	ing d	ir: 300	Wire	out: 8	00 m Spe	ed: 30	kn*10			
	10	iring a.	11. 500	MITE	ouc. o	oo iii spe	eu. 30	KII" I U			

Sorted: 145 Kg Total catch: 544.28 CATCH/HOUR: 1088.56

SPECIES	CATCH	/HOUR	OF TOT. C	SAMP.NO.
	weight	numbers		
Merluccius capensis, female	312.30	1350	28.69	566
Dentex macrophthalmus	289.80	1252	26.62	567
Merluccius capensis, male	217.80	910	20.01	565
Pterothrissus belloci	138.60	780	12.73	
Merluccius capensis, female	60.20	48	5.53	564
Helicolenus dactylopterus	45.00	2644	4.13	
Sufflogobius bibarbatus	7.02	1528	0.64	
Trachurus capensis	6.12	36	0.56	
Synagrops microlepis	5.04	378	0.46	
Chlorophthalmus atlanticus	3.42	180	0.31	
Trigla lyra	1.62	10	0.15	
Lophius upsicephalus	0.74	2	0.07	563
Todaropsis eblanae	0.72	64	0.07	
Krill	0.18		0.02	
Solenocera africana	0.00	10		
Total	1088.56		99.99	

DATE: 2	E /3 1 /	0.2		CEI		E: BT	N 1						N:148
DMIELZ						E: BI	NO: 1		.02	TITON	: Lat	5	1902
	st	art	stop o	durati	.on						Long	Ε	1146
TIME	:10:0	6:00	10:36:00	30	(min)	Purt	ose	code	:	3			
			4810.50					le					
FDEPTH	: :	296	294			Gear	Conc	l. code					
BDEPTH	: :	296	294			Val	dity	code	• :				
	Towi	ng di	lr: 350	Wire	out:	900 m	Spe	ed: :	31	kn*10			

Sorted: 164 Kg

Total catch: 672.01 CATCH/HOUR: 1344.02

SPECIES	CATCH	/HOUR	% OF TOT. C	SAMP.NO.
	weight	numbers		
Merluccius capensis, female	654.20	858	48.67	570
Dentex macrophthalmus	273.40	892	20.34	571
Merluccius capensis, male	255.80	508	19.03	569
Helicolenus dactylopterus	61.92	3100	4.61	
Chlorophthalmus atlanticus	25.84		1.92	
Galeus polli	21.08		1.57	
Trachurus capensis	20.34	66	1.51	572
Krill	12.50		0.93	
Pterothrissus belloci	4.08	16	0.30	
Coelorinchus coelorinch, polli	3.58	116	0.27	
Lophius upsicephalus	3.28	4	0.24	568
Todarodes sagittatus	3.10	10	0.23	
Lycoteuthis diadema	2.24	100	0.17	
Synagrops microlepis	1.84	84	0.14	
MYCTOPHIDAE	0.58	134	0.04	
Solenocera africana	0.24	84	0.02	
Total	1344.02		99.99	

		PROJECT ST	TATION:1489
DATE: 25/11/92	GEAR TYPE: BT No:1	POSITION: Lat	S 1903
start stop d	luration	Lone	E 1139
TIME :11:52:00 12:22:00	30 (min) Purpose co	de: 3	
LOG :4818.00 4819.70	1.77 Area code	: 6	
FDEPTH: 278 276	GearCond.c	ode:	
BDEPTH: 278 276	Validity c	ode:	
Towing dir: 325	Wire out: 800 m Speed	: 33 kn*10	
Sorted: 164 Kg Tot	al catch: 632.02	CATCH/HOUR:	1264.04

SPECIES	CATCH weight	/HOUR %	OF TOT. C	SAMP.NO.
Merluccius capensis, female	682.34	836	53.98	574
Merluccius capensis, male	203.94	338	16.13	573
Chlorophthalmus atlanticus	138.00	7122	10.92	
Helicolenus dactylopterus	115.00	4898	9.10	
Trachurus capensis	88.16	292	6.97	575
Dentex macrophthalmus	17.10	46	1.35	
Hoplostethus cadenati	4.52	108	0.36	
Pterothrissus belloci	2.60	6	0.21	
Synagrops microlepis	2.60	122	0.21	
Coelorinchus coelorinch. polli	2.14	76	0.17	
Todarodes sagittatus	1.90	6	0.15	
Illex coindetii	1.84	68	0.15	
Lophius upsicephalus	1.44	2	0.11	576
Galeus polli	1.14	22	0.09	
MYCTOPHIDAE	0.92		0.07	
Sufflogobius bibarbatus	0.16	8	0.01	
Solenocera africana	0.16	38	0.01	
Yarella blackfordi	0.08	22	0.01	
Total	1264.04		100.00	

		PROJECT STA	TION:149
DATE: 25/11/92	GEAR TYPE: BT No:1	POSITION: Lat	S 1858
start stop	iuration	Long	E 1126
TIME :14:03:00 14:33:00	30 (min) Purpose coo	ie: 3	
LOG :4833.40 4834.70	1.63 Area code	; 7	
FDEPTH: 400 405	GearCond.co	ode:	
BDEPTH: 400 405	Validity co	ode:	
Towing dir: 350	Wire out:1200 m Speed:	: 31 kn*10	
Sorted: 153 Kg Tot	tal catch: 626.23	CATCH/HOUR: 1	252.46

SPECIES	CATCH	/HOUR	• OF	TOT. C	SAMP.NO.
	weight	numbers			
Merluccius paradoxus, female	440.74	630		35.19	579
Merluccius capensis, female	421.66	286		33.67	578
Shrimps, small, non comm.	95.70			7.64	
Hoplostethus cadenati	81.18	2794		6.48	
Epigonus denticulatus	68,20	3212		5.45	
Helicolenus dactylopterus	56.66	616		4.52	
Merluccius capensis, male	31.54	22		2.52	577
Neoharriotta pinnata	13.20	6		1.05	
Todarodes sagittatus	12.54	34		1.00	
Aristeus varidens	8.04	968		0.64	
Nezumia milleri	5.94	462		0.47	
Ebinania costaecanarie	3.30	4.4		0.26	
Laemonema laureysi	3.30	56		0.26	
Galeus polli	3.08	34		0.25	
Yarella blackfordi	2.76	506		0.22	
Coelorinchus coelorinch, polli	1.98	22		0.16	
Chlorophthalmus atlanticus	0.88	34		0.07	
Lampadena sp.	0.78	78		0.06	
Histioteuthis reversa	0.66	22		0.05	
Gadella imberbis	0.32	12		0.03	
Total	1252.46		_	99.99	

							PROJEC	T STA	TIO	N:1491
DATE: 2	5/11/92		GEA	R TYP	E: BT No:1	POS	SITION:	Lat	S	1847
		stop o						Long	E	1130
TIME	:15:56:00	16:26:00	30	(min)	Purpose (	code:	3	-		
	:4844.90				Area code					
FDEPTH	: 256	254			GearCond	.code:				
BDEPTH	: 256	254			Validity	code:				
	Towing d	ir: 360	Wire	out:	900 m. Spee	ed: 33	kn*10			

Sorted: 108 Kg Total catch: 689.50 CATCH/HOUR: 1379.00

SPECIES	CATCH	/HOUR 1	OF TOT. C	SAMP.NO.
	weight	numbers		
Chlorophthalmus atlanticus	521.00	17966	37.78	
Merluccius capensis, female	507.40	784	36.79	581
Merluccius capensis, male	162.80	300	11.81	580
Helicolenus dactylopterus	126.80	3196	9.20	
Krill	22.00		1.60	
Trachurus capensis	11.40	44	0.83	
Todarodes sagittatus	11.40	44	0.83	
Pterothrissus belloci	9.60	44	0.70	
Galeus polli	4.80	44	0.35	
Coelorinchus coelorinch, polli	1.80	88	0.13	

Total

										CT STA		
DATE: 2	5/11/92		GEA	RTYPE	BT:	No:1		POSI	TION	:Lat	S	1841
	start	stop	duration	on						Long	E	1144
TIME	:18:32:0	0 19:02:00	30	(min)	Pur	ose	code	: 3		•		
LOG	:4864.50	4865.80	1.60				le					
FDEPTH	: 225	221			Gear	Cond	. code	e:				
BDEPTH	: 225	221			Vali	dity	code	e:				
	Towing	dir: 345	Wire	out: 7	50 m	Spe	ed:	31 k	n*10			

1379.00

Sorted: 139 Kg Total cat	ch: 602.46	CATCH/F	10UR: 12	204.92
SPECIES	CATCH/HC	our % o	F TOT. C	SAMP.NO.
		umbers		
Trachurus capensis	364.00	1690	30.21	587
Dentex macrophthalmus	337.00	1470	27.97	586
Merluccius capensis, female	156.00	580	12.95	585
Pterothrissus belloci	148.00	846	12.28	
Merluccius capensis, male	127.00	510	10.54	584
Merluccius capensis, female	43.80	34	3.64	583
Trigla lyra	7.80	20	0.65	
Helicolenus dactylopterus	5.50	240	0.46	
Synagrops microlepis	4.70	320	0.39	
Sufflogobius bibarbatus	4.20	820	0.35	
Thyrsites atun	2.00	2	0.17	
Chlorophthalmus atlanticus	1.90	80	0.16	
OPHIDIIDAE	1.50	10	0.12	
Merluccius capensis, male	1.32	2	0.11	582
PORTUNIDAE	0.20	10	0.02	302
Total	1204.92	-	100.02	

start stop duration	R TYPE: BT No:1 POS: on		ION:1493 S 1721 E 1135	DATE:26/11/92 GEAN start stop durati	R TYPE: BT No:1	POSITION: L	STATION:1497 Lat S 1741 Long E 1121
TIME :06:28:00 06:58:00 30 LOG :4949.70 4951.20 1.50 FDEPTH: 117 117	Area code : GearCond.code:	3			(min) Purpose Area cod GearCond	code: 3 le :5	Jong E 1121
BDEPTH: 117 117 Towing dir: 360 Wire	Validity code: out: 500 m Speed: 31 )	<n*10< td=""><td></td><td>BDEPTH: 414 393 Towing dir: 5 Wire</td><td>Validity out:1200 m Spe</td><td>code:</td><td></td></n*10<>		BDEPTH: 414 393 Towing dir: 5 Wire	Validity out:1200 m Spe	code:	
Sorted: 87 Kg Total car	tch: 359.30 CATC	H/HOUR: 71	18.60	Sorted: 187 Kg Total cat	tch: 1048.51	CATCH/HOUR:	2097.02
SPECIES	CATCH/HOUR % weight numbers	OF TOT. C	SAMP.NO.	SPECIES	CATCH/Ho weight n	OUR & OF TO	T. C SAMP.NO.
Trachurus capensis Merluccius capensis, female	210.40 2202 142.40 600	29.28 19.82	591 589	Merluccius capensis, female Merluccius capensis, male	1252.80 487.60	1064 59 468 23	.74 607 .25 606
Trigla lyra Merluccius capensis, male Synagrops microlepis	75.84 534 69.60 312 62.72 16308	10.55 9.69 8.73	588	Trachyrinus scabrus Helicolenus dactylopterus	131.80 66.80	392 3	.19
Raja miraletus Zeus faber	60.12 48 24.00 48	8.37 3.34		Epigonus denticulatus Hoplostethus cadenati Lophius upsicephalus	39.00 30.80 17.20	1156 1	.86 .47 .82 608
Chelidonichthys capensis Merluccius polli Pterothrissus belloci	21.44 64 19.20 1546 12.16 96	2.98 2.67	590	Raya doutrei Schedophilus huttoni	12.40 11.64	6 0 4 0	.59
Sepia orbignyana Galeichthys feliceps	5.04 88 4.96 8	1.69 0.70 0.69		Neoharriotta pinnata Deania profundorum Todarodes sagittatus	7.36 7.20 5.60	12 0	.35 .34 .27
Perulibatrachus rossignoli Todaropsis eblanae	4.32 8 3.04 144	0.60 0.42		Nezumia milleri Laemonema laureysi	5.00 4.94	342 0	.24
Chlorophthalmus atlanticus Sufflogobius bibarbatus Parapenaeus longirostris	1.68 624 1.52 248 0.16 80	0.23 0.21 0.02		Coelorinchus coelorinch. polli Synagrops microlepis Aristeus varidens	4.40	266 0	.19
Total	718.60	99.99		Shrimps, small, non comm. Raja confundens	3.00 2.60 1.04	0	.14 .12 .05
				Yarella blackfordi Geryon maritae	0.88	2 0	.04
DATE: 26/11/92 GEAF		ROJECT STATI	ON:1494	Ebinania costaecanarie Total	2097.02	26 0	.02
start stop duration TIME :08:15:00 08:45:00 30 0 LOG :4959.30 4960.70 1.70	on (min) Purpose code: 3	Long E	1128		2037.02	100	.01
LOG :4959.30 4960.70 1.70 FDEPTH: 177 189 BDEPTH: 177 189	Area code : 6 GearCond.code: Validity code:	•				DDO TECT	CE1 07 CV - 1 4 C C
	out: 650 m Speed: 29 k			start stop duratio	TYPE: BT No:1	POSITION: L	STATION:1498 at S 1741 ong E 1127
Sorted: 174 Kg Total cat		OF TOT. C	0.40	TIME :16:40:00 17:10:00 30 ( LOG :5011.40 5012.90 1.50	(min) Purpose o	code: 3 e :5	
Trachurus capensis	weight numbers 1934.00 14884	55.73	595	BDEPTH: 191 194	GearCond Validity out: 750 m Spec	code:	
Merluccius capensis, female Chlorophthalmus atlanticus Merluccius capensis, male	714.00 1460 288.00 10260 122.00 340	20.57 8.30	593	Sorted: 171 Kg Total cat		CATCH/HOUR:	2839.52
Pterothrissus belloci Dentex macrophthalmus	104.20 500 97.60 500	3.52 3.00 2.81	592 596	SPECIES	CATCH/HO	DIE & OF TOT	. C SAMP.NO.
Merluccius polli Helicoleus dactylopterus	62.00 1160 45.80 660	1.79 1.32	594	Merluccius capensis, female	weight no 1412.80	umbers	.75 610
Trigla lyra Synagrops microlepis Raja miraletus	44.80 240 29.60 2840 17.00 20	1.29 0.85 0.49		Chlorophthalmus atlanticus Merluccius capensis, male Helicolenus dactylopterus	477.30 290.00 197.80	774 10	.81 .21 609
MYCTOPHIDAE Coelorinchus coelorinch, polli	3.80 720 2.00 40	0.11		Trachurus capensis Dentex macrophthalmus	165.60 76.20	1634 5	.97 .83 613 .68 612
Sepia orbignyana Todaropsis eblanae Malacocephalus occidentalis	1.60 20 1.40 20 1.20 20	0.05 0.04 0.03		Squalus megalops Trigla lyra	63.20 55.04	216 2 344 1	.23 .94
Ophidion sp. Lepidopus caudatus	0.80 20 0.40 20	0.02		Merluccius polli Synagrops microlepis Pterothrissus belloci	33.60 33.12 21.08	2710 1	.18 611 .17 .74
PORTUNIDAE	0.20 20	0.01		Lepidopus caudatus Epigonus denticulatus	12.48	86 0 44 0	.44
Total	3470.40	100.00		Munida sp. Total	0.44		.02
	P	ROJECT STATI	ON:1495	Total	2839.52	100	.00
DATE:26/11/92 GEAR start stop duration TIME :09:58:00 10:28:00 30 (	n	TION:Lat S	1720 1120				
LOG : 4968.30 4969.80 1.50 FDEPTH: 345 374			. 1120				
EDEFIN: 343 3/4	Area code : 6		. 1120		TYPE: BT No:1	POSITION: L	STATION:1499 at S 1742
BDEPTH: 345 374 Towing dir: 340 Wire o	Area code : 6 GearCond.code: Validity code:		. 1120	start stop duratio TIME :18:39:00 19:09:00 30 ( LOG :5025.40 5026.80 1.60	n min) Purpose o Area code	POSITION:La code: 3 e : 7	STATION:1499 at S 1742 ong E 1136
BDEPTH: 345 374	Area code : 6 GearCond.code: Validity code: out:1000 m Speed: 31 k	n*10	5.12	start stop duratio TIME :18:39:00 19:09:00 30 ( LOG :5025.40 5026.80 1.60 FDEPTH: 126 127 BDEPTH: 126 127	min) Purpose of Area code GearCond Validity	POSITION:La  code: 3 e : 7 .code: code:	at S 1742
BDEPTH: 345 374 Towing dir: 340 Wire o	Area code : 6 GearCond.code: Validity code: out:1000 m Speed: 31 k ch: 277.56 CATCH	n*10	5.12	start stop duratio TIME :18:39:00 19:09:00 30 ( LOG :5025.40 5026.80 1.60 FDEPTH: 126 127 BDEPTH: 126 127	nmin) Purpose of Area code GearCond Validity out: 500 m Spec	POSITION: La code: 3 e : 7 .code: code: ed: 32 kn*10	at S 1742 ong E 1136
BDEPTH: 345 374 Towing dir: 340 Wire of Sorted: 134 Kg  SPECIES Merluccius capensis, female	Area code : 6 GearCond.code: Validity code: Dut:1000 m Speed: 31 k Ch: 277.56 CATCH  CATCH/HOUR & Weight numbers 275.60 294	n*10 /HOUR: 55 OF TOT. C s	5.12	start stop duratio TIME :18:39:00 19:09:00 30 ( LOG :5025.40 5026.80 1.60 FDEPTH: 126 127 BDEPTH: 126 127 Towing dir: 350 Wire o Sorted: 154 Kg Total cat	min) Purpose of Area code GearCond Validity out: 500 m Speech: 1988.87	POSITION:L. code: 3 = : 7 .code: code: code: ed: 32 kn*10  CATCH/HOUR:	at S 1742 ong E 1136
BDEPTH: 345 374 Towing dir: 340 Wire of Sorted: 134 Kg  Sorted: 134 Kg  Total cat  SPECIES  Merluccius capensis, female Helicolenus dactylopterus Merluccius capensis, male Hoplostethus cadenati	Area code : 6 GearCond.code: Validity code: ut:1000 m Speed: 31 k ch: 277.56 CATCH CATCH/HOUR % weight numbers	n*10 /HOUR: 55 OF TOT. C S	5.12 SAMP.NO.	start stop duratio TIME :18:39:00 19:09:00 30 LOG :5025.40 5026.80 1.60 FDEPTH: 126 127 BDEPTH: 126 127 Towing dir: 350 Wire o	min) Purpose of Area code GearCond. Validity put: 500 m Speech: 1988.87	POSITION:L.  Locade: 3  c. code: 7  code: code: code: ed: 32 kn*10  CATCH/HOUR:	at S 1742 ong E 1136
BDEPTH: 345 374 Towing dir: 340 Wire of Sorted: 134 Kg Total cat  SPECIES  Merluccius capensis, female Helicolenus dactylopterus Merluccius capensis, male Hoplostethus cadenati Merluccius polli, female Laemonema laureysi	Area code : 6 GearCond.code: Validity code: Validity code: Ut:1000 m Speed: 31 k Ch: 277.56 CATCH  CATCH/HOUR weight numbers 275.60 294 67.40 606 59.40 76 29.40 2578 25.10 40 20.70 400	n*10 /HOUR: 55 OF TOT. C S 49.65 12.14 10.70 5.30 4.52 3.73	5.12 SAMP.NO. 598	start stop duratio TIME :18:39:00 19:09:00 30 LOG :5025.40 5026.80 1.60 FDEPTH: 126 127 Towing dir: 350 Wire o Sorted: 154 Kg Total cat  SPECIES Trachurus capensis Dentex macrophthalmus Merluccius capensis, female	min) Purpose of Area code GearCond Validity out: 500 m Specch: 1988.87  CATCH/HO weight n 1771.60 1195.40 358.40	POSITION:L. code: 3	at S 1742 ong E 1136
BDEPTH: 345 374 Towing dir: 340 Wire of Sorted: 134 Kg Total cat SPECIES  Merluccius capensis, female Helicolenus dactylopterus Merluccius capensis, male Hoplostethus cadenati Merluccius polli, female Laemonema laureysi Shrimps, small, non comm. Todarodes sagittatus	Area code : 6 GearCond.code: validity code: code CATCH/HOUR weight numbers 275.60 294 67.40 606 59.40 76 29.40 2578 25.10 40 20.70 400 18.00 334	n*10 //HOUR: 55 OF TOT. C S 49.65 12.14 10.70 5.30 4.52 3.73 3.24 2.34	5.12 SAMP.NO. 598 597	start stop duratio TIME :18:39:00 19:09:00 30 LOG :5025.40 5026.80 1.60 FDEPTH: 126 127 Towing dir: 350 Wire o Sorted: 154 Kg Total cat  SPECIES Trachurus capensis Dentex macrophthalmus Merluccius capensis, female Synagrops microlepis Pterothrissus belloci	nmin) Purpose of Area code GearCond. Validity ut: 500 m Speech: 1988.87  CATCH/HO Weight nt: 1771.60 1195.40 358.40 184.80 122.40	POSITION: L. code: 3 e : 7 .code: 7 .code: 1 .co	at s 1742 ong E 1136 3977.74 2. C SAMP.NO. .54 618 .05 617 .01 615 .65
BDEPTH: 345 374 Towing dir: 340 Wire of Sorted: 134 Kg Total cat  SPECIES Merluccius capensis, female Helicolenus dactylopterus Merluccius capensis, male Hoplostethus cadenati Merluccius polli, female Laemonema laureysi Shrimps, small, non comm. Todarodes sagittatus Zenopsis conchifer Dentex macrophthalmus Afristeus varidens	Area code : 6 GearCond.code: Validity code: Validity code: Validity code: CATCH/HOUR Weight numbers 275.60 294 67.40 606 59.40 76 29.40 2578 25.10 40 20.70 400 18.00 13.00 34 7.60 8 7.20 20 6.55 818	n*10 /HOUR: 55 OF TOT. C S 49.65 12.14 10.70 5.30 4.52 3.73 3.24 2.34 1.37 1.30 1.17	5.12 SAMP.NO. 598 597	start stop duratio TIME :18:39:00 19:09:00 30 LOG :5025.40 5026.80 1.60 FDEPTH: 126 127 BDEPTH: 126 127 Towing dir: 350 Wire o Sorted: 154 Kg Total cat  SPECIES Trachurus capensis Dentex macrophthalmus Merluccius capensis, female Synagrops microlepis	min) Purpose of Area code GearCond. Validity out: 500 m Speech: 1988.87  CATCH/HO Weight nu 1771.60 1195.40 358.40 184.80	POSITION: L. code: 3 e : 7 .code: code: code: 32 kn*10 CATCH/HOUR:  DUR * OF TOT unbers 4300 44 4328 30 1090 9 29712 4 1558 3 1758 3 2 372 2	at s 1742 ong E 1136 3977.74 C C SAMP.NO. 54 618 .05 617 .01 615 .65 .08 .53
BDEPTH: 345 374 Towing dir: 340 Wire of Sorted: 134 Kg Total cat SPECIES  Merluccius capensis, female Helicolenus dactylopterus Merluccius capensis, male Hoplostethus cadenati Merluccius polli, female Laemonema laureysi Shrimps, small, non comm. Todarodes sagittatus Zenopsis conchifer Dentex macrophthalmus Aristeus varidens Yarella blackfordi Merluccius paradoxus, female	Area code : 6 GearCond.code: Validity code: Validit	n*10 /HOUR: 55 OF TOT. C \$ 49.65 12.14 10.70 5.30 4.52 3.73 3.24 2.34 1.37 1.30 1.17 0.90 0.89	5.12 SAMP.NO. 598 597	start stop duratio TIME :18:39:00 19:09:00 30 LOG :5025.40 5026.80 1.60 FDEPTH: 126 127 BDEPTH: 126 127 Towing dir: 350 Wire o Sorted: 154 Kg Total cat  SPECIES  Trachurus capensis Dentex macrophthalmus Merluccius capensis, female Synagrops microlepis Pterothrissus belloci MYCTOPHIDAE Merluccius capensis, male Trigla lyra Callorhinchus capensis Mustelus mustelus	min) Purpose of Area code GearCould Validity Validity Validity Chr. 1988.87  CATCH/HO Weight nt 1771.60 1195.40 358.40 122.40 100.60 91.80 67.00 37.80 30.00	POSITION: L. code: 3 code: 7 code: 6 CATCH/HOUR:  CATCH/HOUR:  DUR & OF TOT umbers 4300 44 4328 30 1090 9 29712 4 1558 3 2 372 2 430 1 28 0 6 0	3977.74 2. C SAMP.NO54 618 .05 617 .01 615 .65 .08 .53 .31 614
BDEPTH: 345 374 Towing dir: 340 Wire of Sorted: 134 Kg Total cat  SPECIES  Merluccius capensis, female Helicolenus dactylopterus Merluccius capensis, male Hoplostethus cadenari Merluccius polli, female Laemonema laureysi Shrimps, small, non comm. Todarodes sagittatus Zenopsis conchifer Dentex macrophthalmus Aristeus varidens Yarella blackfordi Merluccius paradoxus, female Chlorophthalmus atlanticus Merluccius paradoxus, male	Area code : 6 GearCond.code: Validity code: Validit	n*10 /HOUR: 55 OF TOT. C S 49.65 12.14 10.70 5.30 4.52 3.73 3.24 2.34 1.37 1.30 1.17 0.90 0.86 0.45	5.12 SAMP.NO. 598 597 602	start stop duratio TIME :18:39:00 19:09:00 30 LOG :5025.40 5026.80 1.60 FDEPTH: 126 127 BDEPTH: 126 127 Towing dir: 350 Wire o Sorted: 154 Kg Total cat  SPECIES  Trachurus capensis Dentex macrophthalmus Merluccius capensis, female Synagrops microlepis Pterothrissus belloci MYCTOPHIDAE Merluccius capensis, male Trigla lyra Callorhinchus capensis Mustelus mustelus Merluccius polli Squalus megalops	min) Purpose of Area code GearCode.  Area code GearCode.  Pull dity Validity  Ch: 1988.87  CATCH/HO Weight nt 1771.60 1195.40 358.40 184.80 122.40 100.60 91.80 67.00 37.80 30.00 14.40 3.40	POSITION: L. code: 3 e : 7 code: 7 code: 17 code: 6 code: 17 code:	at s 1742 ong E 1136 3977.74 C C SAMP.NO. .54 618 .05 617 .01 615 .65 .53 .53 614 .68
BDEPTH: 345 374 Towing dir: 340 Wire of Towing dir: 340 Wire of Sorted: 134 Kg  SPECIES  Merluccius capensis, female Helicolenus dactylopterus Merluccius capensis, male Hoplostethus cadenati Merluccius pollii, female Laemonema laureysi Shrimps, small, non comm. Todatodes sagittatus Zenopsis conchifer Dentex macrophthalmus Aristeus varidens Yarella blackfordi Merluccius polli Aristeus varidens Merluccius pollii Merluccius pollii Merluccius pollii, male Merluccius pollii, male Coelorinchus coelorinch, polli Lepidopus caudatus	Area code : 6 GearCond.code: 1 GearCond.code: 2 Validity code: 1 Validity code: 31 k ch: 277.56 CATCH  CATCH/HOUR * Weight numbers 275.60 294 67.40 606 59.40 76 29.40 2578 25.10 40 20.70 400 13.00 34 7.60 8 7.20 20 6.50 818 5.00 4.32 8 4.80 110 2.52 4 1.88 4 1.70 40 1.50 10	N*10  /HOUR: 55  OF TOT. C S  49.65 12.14 10.70 5.30 4.52 3.73 3.24 2.34 1.37 1.37 1.17 0.90 0.89 0.86 0.45 0.34 0.31 0.27	5.12 SAMP.NO. 598 597 602	start stop duratio TIME :18:39:00 19:09:00 30 LOG :5025.40 5026.80 1.60 FDEPTH: 126 127 BDEPTH: 126 127 Towing dir: 350 Wire o Sorted: 154 Kg Total cat  SPECIES Trachurus capensis Dentex macrophthalmus Merluccius capensis, female Synagrops microlepis Pterothrissus belloci MYCTOPHIDAE Merluccius capensis, male Triqla lyra Callorhinchus capensis Mustelus mustelus Merluccius polli	min) Purpose of Area code GearCond. Validity out: 500 m Speech: 1988.87  CATCH/HO Weight nu 1771.60 1195.40 358.40 122.40 100.60 91.80 67.00 37.80 30.00 11.40	POSITION:L. code: 3 e : 7 .code: 7 .code: code: ed: 32 kn*10  CATCH/HOUR:  DUR * OF TOT umbers 4300 44 4328 30 1090 9 29712 4 1558 3 372 2 4300 1 28 0 68 0	3977.74 3977.7
BDEPTH: 345 374 Towing dir: 340 Wire of Total cat  SPECIES  Merluccius capensis, female Helicolenus dactylopterus Merluccius capensis, male Hoplostethus cadenati Merluccius polli, female Laemonema laureysi Shrimps, small, non comm. Todarodes sagittatus Zenopsis conchifer Dentex macrophthalmus Aristeus varidens Yarella blackfordi Merluccius paradoxus, female Chlorophthalmus atlanticus Merluccius polli, male Coelorinchus coelorinch, polli Lepidopus caudatus Malacocephalus occidentalis Epigonus denticulatus	Area code : 6 GearCond.code: 1 GearCond.code: 2 Validity code: 1 Validity code: 31 k ch: 277.56 CATCH  CATCH/HOUR Weight numbers 275.50 294 67.40 606 59.40 76 29.40 2578 25.10 40 20.70 400 18.00 34 7.60 8 7.20 20 6.50 818 5.00 4.92 18 4.00 110 2.52 4 1.88 4 1.70 40 1.50 10 0.50 20	N*10  /HOUR: 55  OF TOT. C S  49.65 12.14 10.70 5.30 4.52 3.73 3.24 2.34 1.37 1.37 1.17 0.90 0.89 0.86 0.45 0.34 0.31 0.27 0.14	5.12 SAMP.NO. 598 597 602	start stop duration TIME :18:39:00 19:09:00 30 10 LOG :5025.40 5026.80 1.60 FDEPTH: 126 127 Towing dir: 350 Wire of Sorted: 154 Kg Total cat  SPECIES  Trachurus capensis Dentex macrophthalmus Merluccius capensis, female Synagrops microlepis Pterothrisaus belloci MYCTOPHIDAE Merluccius capensis, male Triqla lyra Callorhinchus capensis Mustelus mustelus Merluccius polli Squalus megalops Ophisurus serpens	min) Purpose of Area code GearCode.  Area code GearCode.  Validity Validity Code.  Ch: 1988.87  CATCH/HO Weight Nt 1771.60 1195.40 358.40 124.40 100.60 91.80 67.00 37.80 30.00 14.40 3.40 0.14	POSITION: L. code: 3 e : 7 code: 7 code: 17 code	3977.74 3977.7
BDEPTH: 345 374 Towing dir: 340 Wire of Sorted: 134 Kg Total cat  SPECIES  Merluccius capensis, female Helicolenus dactylopterus Merluccius capensis, male Hoplostethus cadenati Merluccius polli, female Laemonema laureysi Shrimps, small, non comm. Todarodes sagittatus Zenopsis conchifer Dentex macrophthalmus Aristeus varidens Yarella blackfordi Merluccius polli, melle Chlorophthalmus atlanticus Merluccius polli, male Coelorinchus coelorinch, polli Lepidopus caudatus Malacocephalus occidentalis Epigonus denticulatus Nezumia milleri Galeus polli Lyoteuthis diadema	Area code : 6 GearCond.code: 1 GearCond.code: 1 Validity code: 1 Validity code: 277.56 CATCH/HOUR Weight numbers 275.60 294 67.40 606 59.40 76 29.40 2578 25.10 40 20.70 400 18.00 34 7.60 8 7.20 20 6.50 818 5.00 4.92 8 4.80 110 2.52 4 1.88 4 1.70 10.60 10 0.50 20 0.40 660 0.40 10 0.40 20	n*10 /HOUR: 55 OF TOT. C S 49.65 12.14 10.70 5.30 4.52 3.73 3.24 2.34 1.37 1.30 1.17 0.90 0.89 0.86 0.45 0.34 0.31 0.27 0.14	5.12 SAMP.NO. 598 597 602	start stop duration TIME :18:39:00 19:09:00 30 10 LOG :5025.40 5026.80 1.60 ( FDEPTH: 126 127 BDEPTH: 126 127 Towing dir: 350 Wire of the start of t	min) Purpose of Area code GearCond. Validity Validity Validity Validity Validity Validity November 200 m Speech: 1988.87  CATCH/HO Weight nt 1771.60 1771.60 1795.40 184.80 122.40 100.60 91.80 67.00 37.80 30.00 14.40 3.40 0.14	POSITION: L. code: 3 e: 7 .code: code: code: 32 kn*10  CATCH/HOUR:  DUR	at s 1742 ong E 1136  3977.74  C. C SAMP.NO. 54 618 05 617 01 615 65 08 131 614 68 95 75 336 616 09  STATION:1500
BDEPTH: 345 374 Towing dir: 340 Wire of Total cat  SPECIES  Merluccius capensis, female Helicolenus dactylopterus Merluccius capensis, male Hoplostethus cadenati Merluccius polli, female Laemonema laureysi Shrimps, small, non comm. Todarodes sagittatus Zenopsis conchifer Dentex macrophthalmus Aristeus varidens Yarella blackfordi Merluccius paradoxus, female Chlorophthalmus atlanticus Merluccius paradoxus, male Merluccius polli, male Coelorinchus coelorinch, polli Lepidopus caudatus Malacocephalus occidentalis Epigonus denticulatus Nezumia milleri Galeus polli	Area code : 6 GearCond.code: 1 GearCond.code: 31 k ch: 277.56 CATCH  CATCH/HOUR * Weight numbers 275.50 294 67.40 606 59.40 76 29.40 2578 25.10 40 20.70 400 13.00 34 7.60 8 7.20 20 6.50 818 5.00 4.92 8 4.80 110 2.52 4 1.88 4 1.70 40 1.50 10 0.80 10 0.50 20 0.40 60	N*10  /HOUR: 55  OF TOT. C S  49.65 12.14 10.70 5.30 4.52 3.73 3.24 2.34 1.37 1.30 1.17 0.90 0.86 0.45 0.34 0.31 0.27 0.14 0.09 0.07	5.12 SAMP.NO. 598 597 602	start stop duratic TIME :18:39:00 19:09:00 30 ( LOG :5025.40 5026.80 1.60 FDEPTH: 126 127 Towing dir: 350 Wire of Sorted: 154 Kg Total cat  SPECIES  Trachurus capensis Dentex macrophthalmus Merluccius capensis, female Synagrops microlepis Pterothrissus belloci MYCTOPHIDAE Merluccius capensis, male Trigla lyra Callorhinchus capensis Mustelus mustelus Merluccius capensis Mustelus mustelus Merluccius capensis Total  DATE:27/11/92 Start stop duratio TIME :06:37:00 07:06:00 29 (	min) Purpose of Area code GearCond Validity out: 500 m Specch: 1988.87  CATCH/HO Weight m 1771.60 1195.40 358.40 184.80 122.40 100.60 91.80 67.00 37.80 30.00 14.40 3.40 0.14  3977.74  TYPE: BT No:1 n mtn) Purpose of	POSITION:L  code: 3 e : 7 .code: 7 .code: 20 .code: 20 .code: 32 .code: 60 .code: 60 .code: 60 .code: 60 .code: 60 .code: 7 .code: 7 .code: 7 .code: 7 .code: 7 .code: 7 .code: 60 .code: 7 .code: 3	3977.74 3977.75 3977.7
BDEPTH: 345 374 Towing dir: 340 Wire of Total cat  Sorted: 134 Kg Total cat  SPECIES  Merluccius capensis, female Helicolenus dactylopterus Merluccius capensis, male Hoplostethus cadenati Merluccius polli, female Laemonema laureysi Shrimps, small, non comm. Todarodes sagittatus Zenopsis conchifer Dentex macrophthalmus Aristeus varidens Yarella blackfordi Merluccius paradoxus, female Chlorophthalmus atlanticus Merluccius paradoxus, male Herluccius polli, male Coelorinchus coelorinch. polli Lepidopus caudatus Malacocephalus occidentalis Epigonus denticulatus Nezumia milleri Galeus polli Lycoteuthis diadema PORTUNIDAE	Area code : 6 GearCond.code: 1 GearCond.code: 31 k ch: 277.56 CATCH  CATCH/HOUR weight numbers 275.560 294 67.40 606 59.40 76 29.40 2578 25.10 40 20.70 400 13.00 34 7.60 8 7.20 20 6.50 818 5.00 4.92 8 4.80 110 2.52 4 1.88 4 1.70 40 1.50 10 0.80 10 0.80 10 0.90 20 0.40 60 0.40 10 0.40 10 0.40 10 0.20 10	N*10  /HOUR: 55  OF TOT. C S  49.65 12.14 10.70 5.30 4.52 3.73 3.24 2.34 1.37 1.37 1.37 1.17 0.90 0.89 0.86 0.45 0.34 0.31 0.27 0.14 0.09 0.07 0.07	5.12 SAMP.NO. 598 597 602	start stop duratic TIME :18:39:00 19:09:00 30 ( LOG :5025.40 5026.80 1.60 FDEPTH: 126 127 BDEPTH: 126 127 Towing dir: 350 Wire of Sorted: 154 Kg Total cat  SPECIES  Trachurus capensis Dentex macrophthalmus Merluccius capensis, female Synagrops microlepis Pterothrissus belloci MYCTOPHIDAE Merluccius capensis, male Trigla lyra Callorhinchus capensis Mustelus mustelus Merluccius capensis Mustelus mustelus Merluccius capensis Total  DATE: 27/11/92 GEAR Start stop duratio TIME :06:37:00 07:06:00 29 ( LOG :5094.10 5095.40 1.30 FDEPTH: 123 121	min) Purpose of Area code GearCond Validity out: 500 m Specch: 1988.87  CATCH/HO Weight m 1771.60 1195.40 358.40 184.80 122.40 100.60 91.80 67.00 37.80 30.00 14.40 3.40 0.14  3977.74  TYPE: BT No:1 n min) Purpose of Area code GearCond.	POSITION: L. code: 3 e: 7 .code: code: code: 20 CATCH/HOUR:  CATCH/HOUR:  DUR	at s 1742 ong E 1136 3977.74 C SAMP.NO. .54 618 .05 617 .01 615 .65 .03 614 .68 .95 .75 .75 .75 .75 .76 .70 .70 .70 .70 .70 .70 .70 .70 .70 .70
BDEPTH: 345 374 Towing dir: 340 Wire of Total cat  Sorted: 134 Kg Total cat  SPECIES  Merluccius capensis, female Helicolenus dactylopterus Merluccius capensis, male Hoplostethus cadenati Merluccius spolli, female Laemonema laureysi Shrimps, small, non comm. Todarodes sagittatus Zenopsis conchifer Dentex macrophthalmus Aristeus varidens Yarella blackfordi Merluccius paradoxus, female Chlorophthalmus atlanticus Merluccius paradoxus, male Merluccius paradoxus, male Merluccius paradoxus, male Merluccius polli, male Coelorinchus coelorinch. polli Lepidopus caudatus Malacocephalus occidentalis Epigonus denticulatus Nezumia milleri Galeus polli Lycoteuthis diadema PORTUNIDAE MYCTOPHIDAE	Area code : 6 GearCond.code : 6 GearCond.code : 0 Validity code: V	N*10 /HOUR: 55 OF TOT. C S 49.65 12.14 10.70 5.30 4.52 3.73 3.24 2.34 1.37 1.30 1.17 0.90 0.86 0.45 0.34 0.31 0.27 0.14 0.09 0.07 0.07 0.07 0.07 0.07 0.04 0.04	5.12 SAMP.NO. 598 597 602 600 599 601	start stop duratio TIME :18:39:00 19:09:00 30 0 LOG :5025.40 5026.80 1.60 FDEPTH: 126 127 Towing dir: 350 Wire o Sorted: 154 Kg Total cat  SPECIES  Trachurus capensis Dentex macrophthalmus Merluccius capensis, female Synagrops microlepis Petrothrissus belloci MYCTOPHIDAE Merluccius capensis, male Trigla lyra Callorhinchus capensis Mustelus mustelus Merluccius polli Squalus megalops Ophisurus serpens  Total  DATE:27/11/92 GEAR Start stop duratio TIME :06:37:00 07:06:00 29 ( LOG :5094.10 5095.40 1.30 FDEPTH: 123 121 BDEPTH: 123 121 Towing dir: 360 Wire o	min) Purpose of Area code GearCond. Validity No. 1988.87  CATCH/HO Weight N. 1771.60 1195.40 358.40 184.80 122.40 100.60 91.80 67.00 37.80 30.00 14.40 0.14  3977.74  TYPE: BT No:1 nmin) Purpose of Area code GearCond. Validity ut: 450 m Speed	POSITION:L. Le code: 3	at s 1742 ong E 1136  3977.74  C. C SAMP.NO54 618 .05 617 .01 615 .65 .08 .31 614 .68 .95 .75 .36 616 .09  STATION:1500 at S 1802 ong E 1138
BDEPTH: 345 374 Towing dir: 340 Wire of Towing dir: 340 Wire of Sorted: 134 Kg Total cat SPECIES  Merluccius capensis, female Helicolenus dactylopterus Merluccius capensis, male Hoplostethus cadenati Merluccius polli, female Laemonema laureysi Shrimps, small, non comm. Todatodes sagittatus Zenopsis conchifer Dentex macrophthalmus Aristeus varidens Yarella blackfordi Merluccius polli, male Chlorophthalmus atlanticus Merluccius paradoxus, male Merluccius polli, male Coelorinchus coelorinch, polli Lepidopus caudatus Malacocephalus occidentalis Epigonus denticulatus Nezumia milleri Galeus polli Lycoteuthis diadema PORTUNIDAE  Total  DATE:26/11/92 GEAR	Area code : 6 GearCond.code: 1 GearCond.code: 1 Validity code: 1 Validity code: 2 Validity code: 2 Validity code: 31 k ch: 277.56 CATCH  CATCH/HOUR	N*10 /HOUR: 55 OF TOT. C S 49.65 12.14 10.70 5.30 4.52 3.73 3.24 2.34 1.37 1.30 1.17 0.90 0.86 0.45 0.34 0.31 0.27 0.14 0.09 0.07 0.07 0.07 0.07 0.07 0.07 0.07	5.12 SAMP.NO. 598 597 602 600 599 601	start stop duratio TIME :18:39:00 19:09:00 30 0 LOG :5025.40 5026.80 1.60 FDEPTH: 126 127 BDEPTH: 126 127 Towing dir: 350 Wire o Sorted: 154 Kg Total cat  SPECIES  Trachurus capensis Dentex macrophthalmus Merluccius capensis, female Synagrops microlepis Pterothrissus belloci MYCTOPHIDAE Merluccius capensis, male Triqla lyra Callorhinchus capensis Mustelus mustelus Merluccius polli Squalus megalops Ophisurus serpens  Total  DATE: 27/11/92 GEAR start stop duratio TIME :06:37:00 07:06:00 29 ( LOG :5094.10 5095.40 1.30 FDEPTH: 123 121 BDEPTH: 123 121 BDEPTH: 123 121	min) Purpose of Area code GearCond. Validity No. 1988.87  CATCH/HO Weight N. 1771.60 1195.40 358.40 184.80 122.40 100.60 91.80 67.00 37.80 30.00 14.40 0.14  3977.74  TYPE: BT No:1 nmin) Purpose of Area code GearCond. Validity ut: 450 m Speed	POSITION: L. code: 3 e : 7 .code: code: code: 17 .code: code: 20 .code: 3 .code: 3 .code: 3 .code: 3 .code: 8 .code: 1	at s 1742 ong E 1136 3977.74 C SAMP.NO. .54 618 .05 617 .01 615 .65 .03 614 .68 .95 .75 .75 .75 .75 .76 .70 .70 .70 .70 .70 .70 .70 .70 .70 .70
BDEPTH: 345 374 Towing dir: 340 Wire of Total cat  SPECIES  Merluccius capensis, female Helicolenus dactylopterus Merluccius capensis, male Hoplostethus cadenati Merluccius polli, female Laemonema laureysi Shrimps, small, non comm. Todarodes sagittatus Zenopsis conchifer Dentex macrophthalmus Aristeus varidens Yarella blackfordi Merluccius polli, male Chlorophthalmus atlanticus Merluccius polli, male Coelorinchus coelorinch, polli Lepidopus caudatus Malacocephalus occidentalis Epigonus denticulatus Nezumia milleri Galeus polli Lycoteuthis diadema PORTUNIDAE MYCTOPHIDAE  Total  DATE: 26/11/92 GEAR START Stop duratio TIME : 12:43100 13:13:00 30 (LOG :4985.90 4987.60 1.50	Area code : 6 GearCond.code: 1 GearCond.code: 1 Validity code: 1 Validity code: 2 Validity code: 2 Validity code: 31 k ch: 277.56 CATCH  CATCH/HOUR Weight numbers 275.60 294 67.40 606 59.40 76 29.40 2578 25.10 40 20.70 400 13.00 34 7.60 8 7.20 20 6.50 618 5.00 40 2.50 81 1.00 20 1.80 10 2.52 4 1.88 4 1.70 40 1.50 10 0.80 10 0.90 20 0.40 60 0.40 10 0.40 20 0.20 30  TYPE: BT No:1 POSI In In In In In Purpose code: 3 Area code : 5	N*10  /HOUR: 55  OF TOT. C S  49.65 12.14 10.70 5.30 4.52 3.73 3.24 2.34 1.37 1.30 1.17 0.90 0.89 0.86 0.45 0.34 0.31 0.27 0.14 0.09 0.07 0.07 0.07 0.07 0.07 0.07 0.04 100.00  ROJECT STATIC TION:Lat S Long E	5.12 SAMP.NO. 598 597 602 600 599 601	start stop duratio TIME :18:39:00 19:09:00 30 0 LOG :5025.40 5026.80 1.60 6 FDEPTH: 126 127 BDEPTH: 126 127 Towing dir: 350 Wire o Sorted: 154 Kg Total cat  SPECIES  Trachurus capensis Dentex macrophthalmus Merluccius capensis, female Synagrops microlepis Pterothrissus belloci MYCTOPHIDAE Merluccius capensis, male Trigla lyra Callorhinchus capensis Mustelus mustelus Merluccius polli Squalus megalops Ophisurus serpens  Total  DATE:27/11/92 GEAR start stop duratio TIME :06:37:00 07:06:00 29 ( LOG :5094.10 5095.40 1.30 FDEPTH: 123 121 BDEPTH: 123 121 Towing dir: 360 Wire o Sorted: 69 Kg Total cat	min) Purpose of Area code GearCond. Validity val	POSITION: L. code: 3 e: 7 .code: code: code: 27 .code: code: 27 .code: 3 .code: 3 .code: 3 .code: 3 .code: 8 .code: 8 .code: 8 .code: 8 .code: 1 .code: 8 .code: 1 .code: 3 .code: 1 .code: 1 .code: 3 .code: 1 .code: 3 .code: 1 .code: 1 .code: 3 .code: 3 .code: 1 .code: 3 .code: 1 .code: 3 .code: 1 .code: 3 .code: 1 .code: 3 .code: 3 .code: 1 .code: 3	at s 1742 ong E 1136  3977.74  C. C SAMP.NO54 618 .05 617 .01 615 .65 .08 .31 614 .68 .95 .75 .36 616 .09  STATION:1500 at S 1802 ong E 1138
BDEPTH: 345 374 Towing dir: 340 Wire of Total cat  Sorted: 134 Kg Total cat  SPECIES  Merluccius capensis, female Helicolenus dactylopterus Merluccius capensis, male Hoplostethus cadenati Merluccius polli, female Laemonema laureysi Shrimps, small, non comm. Todarodes sagittatus Zenopsis conchifer Dentex macrophthalmus Aristeus varidens Yarella blackfordi Merluccius polli, male Chlorophthalmus atlanticus Merluccius paradoxus, female Chlorophthalmus atlanticus Merluccius polli, male Coelorinchus coelorinch, polli Lepidopus caudatus Malacocephalus occidentalis Epigonus denticulatus Nezumia milleri Galeus polli Lycoteuthis diadema PORTUNIDAE MYCTOPHIDAE  Total  DATE:26/11/92 GEAR STATE STOP duratio TIME :12:43:00 13:13:00 30 (DCS :4985.90 4987.60 1.50 FDEPTH: 248 246 BDEPTH: 248 246	Area code : 6 GearCond.code: 16 GearCond.code: 21 Validity code: 277.56  CATCH/HOUR verification validity code: 278.60  CATCH/HOUR verification validity code: validity cod	N*10  /HOUR: 55  OF TOT. C S  49.65 12.14 10.70 5.30 4.52 3.73 3.24 2.34 1.37 1.30 1.17 0.90 0.89 0.86 0.45 0.34 0.31 0.27 0.14 0.09 0.07 0.07 0.07 0.07 0.04 0.04 100.00  ROJECT STATIC	5.12 SAMP.NO. 598 597 602 600 599 601	start stop duratio TIME :18:39:00 19:09:00 30 0 LOG :5025.40 5026.80 1.60 6 FDEPTH: 126 127 BDEPTH: 126 127 Towing dir: 350 Wire o Sorted: 154 Kg Total cat  SPECIES  Trachurus capensis Dentex macrophthalmus Merluccius capensis, female Synagrops microlepis Pterothrissus belloci MYCTOPHIDAE Merluccius capensis, male Trigla lyra Callorhinchus capensis Mustelus mustelus Merluccius polli Squalus megalops Ophisurus serpens  Total  DATE:27/11/92 GEAR start stop duratio TIME :06:37:00 07:06:00 29 ( LOG :5094.10 5095.40 1.30 FDEPTH: 123 121 BDEPTH: 123 121 Towing dir: 360 Wire o Sorted: 69 Kg Total cat  SPECIES  Dentex macrophthalmus Merluccius capensis, female	min) Purpose of Area code GearCond.  CATCH/HO Weight nt 1771-60 1195.40 358.40 122.40 100.60 91.80 67.00 37.80 30.00 14.40 3.40 0.14 3977.74  TYPE: BT No:1 nmin) Purpose of Area code GearCond. Validity ut: 450 m Speech: 264.56  CATCH/HO Weight nu 181.24 131.59	POSITION: L. code: 3 e: 7 .code: 7 .code: 2 code: 2 code: 32 kn*10  CATCH/HOUR:  DUR	at s 1742 ong E 1136  3977.74  C. C SAMP.NO54 618 .05 617 .01 615 .65 .08 .31 614 .68 .95 .75 .36 616 .09  STATION:1500 at S 1802 ong E 1138  547.37  C SAMP.NO11 625
BDEPTH: 345 374 Towing dir: 340 Wire of Towing dir: 340 Wire of Sorted: 134 Kg Total cat SPECIES  Merluccius capensis, female Helicolenus dactylopterus Merluccius capensis, male Hoplostethus cadenati Merluccius polli, female Laemonema laureysi Shrimps, small, non comm. Todarodes sagittatus Zenopsis conchifer Dentex macrophthalmus Aristeus varidens Yarella blackfordi Merluccius polli, male Chlorophthalmus atlanticus Merluccius polli, male Coelorinchus coelorinch, polli Lepidopus caudatus Malacocephalus occidentalis Epigonus denticulatus Nezumia milleri Galeus polli Lyocteuthis diadema FORTUNIDAE MYCTOPHIDAE  Total  DATE: 26/11/92 GEAR MYCTOPHIDAE  Total GEAR Start stop duratio TIME: 12:43:00 13:13:00 30 (LOG: 1985.90 497.60 1.50 FDEPTH: 248 246 BDEPTH: 248 246 Towing dir: 5 Wire o Sorted: Kg Total cat	Area code : 6 GearCond.code: will loom of Speed: 31 kch: 277.56 CATCH  CATCH/HOUR weight numbers 275.50 294 67.40 606 59.40 76 29.40 2578 25.10 40 20.70 400 13.00 34 7.60 8 7.20 20 6.50 818 5.00 4.92 8 4.80 110 2.52 4 1.88 4 1.70 40 1.50 10 0.80 10 0.80 10 0.80 10 0.80 10 0.90 30  TYPE: BT No:1 POSI numbers 3 Area code : 5 GearCond.code: Validity code: ut: 850 m Speed:177 k.	N*10  /HOUR: 55  OF TOT. C S  49.65 12.14 10.70 5.30 4.52 3.73 3.24 2.34 1.37 1.30 1.17 0.90 0.86 0.45 0.34 0.31 0.27 0.14 0.09 0.07 0.07 0.07 0.07 0.07 0.04 100.00  ROJECT STATICTION:Lat S Long E	5.12 SAMP.NO. 598 597 602 600 599 601	start stop duratio TIME :18:39:00 19:09:00 30 0 LOG :5025.40 5026.80 1.60 6 FDEPTH: 126 127 BDEPTH: 126 127 Towing dir: 350 Wire o Sorted: 154 Kg Total cat  SPECIES  Trachurus capensis Dentex macrophthalmus Merluccius capensis, female Synagrops microlepis Pterothrissus belloci MYCTOPHIDAE Merluccius capensis, male Trigla lyra Callorhinchus capensis Mustelus mustelus Merluccius polli Squalus megalops Ophisurus serpens  Total  DATE:27/11/92 GEAR start stop duratio TIME :06:37:00 07:06:00 29 ( LOG :5094.10 5095.40 1.30 FDEPTH: 123 121 BDEPTH: 123 121 Towing dir: 360 Wire o Sorted: 69 Kg Total cat  SPECIES  Dentex macrophthalmus Merluccius capensis, female Trachurus capensis, female Trachurus capensis, female Trachurus capensis, female	min) Purpose of Area code GearCond.  Validity Validity Validity Validity Noveight Interpolation 1771-60 1195.40 358.40 122.40 100.60 91.80 91.80 67.00 37.80 30.00 14.40 3.774  TYPE: BT No:1 nmin) Purpose of Area code GearCond. Validity ut: 450 m Speech: 264.56  CATCH/HOWeight nu 181.24 131.59 57.10 43.45	POSITION:L.  code: 3 e : 7 .code: code: code: 20 CATCH/HOUR:  DUR & OF TOT umbers 4300 44 4328 30 1090 9 29712 4 1558 3 172 2 430 1 28 0 6 6 0 6 88 0 4 0 2	at s 1742 ong E 1136  3977.74  C. C SAMP.NO54 618 .05 617 .01 615 .65 .08 .31 614 .68 .95 .75 .36 616 .09  STATION:1500 at s 1802 ong E 1138  547.37  C C SAMP.NO11 625 .11 624 .43 627 .94 622
BDEPTH: 345 374 Towing dir: 340 Wire of Towing dir: 340 Wire of Sorted: 134 Kg Total cat SPECIES  Merluccius capensis, female Helicolenus dactylopterus Merluccius capensis, male Hoplostethus cadenati Merluccius polli, female Laemonema laureysi Shrimps, small, non comm. Todarodes sagittatus Zenopsis conchifer Dentex macrophthalmus Aristeus varidens Yarella blackfordi Merluccius paradoxus, female Chlorophthalmus atlanticus Merluccius polli, male Coelorinchus coelorinch, polli Lepidopus caudatus Malacocephalus occidentalis Epigonus denticulatus Nezumia milleri Galeus polli Lyocteuthis diadema PORTUNIDAE MYCTOPHIDAE  Total  DATE: 26/11/92 GEAR STORTUNIDAE TOTAL STORTUNIDAE STARTUNIDAE TOTAL STORTUNIDAE TOTAL STORTUNIDAE TOTAL STARTUNIDAE STARTUNIDAE TOTAL STARTUNIDAE	Area code : 6 GearCond.code: Validity code: validit	N*10  /HOUR: 55  OF TOT. C S  49.65 12.14 10.70 5.30 4.52 3.73 3.24 2.34 1.37 1.30 1.17 0.90 0.89 0.86 0.45 0.31 0.27 0.14 0.09 0.07 0.07 0.07 0.07 0.07 0.07 0.04 100.00  ROJECT STATIC TION:Lat S Long E	5.12 SAMP.NO. 598 597 602  600 599 601  ON:1496 1732 1124	start stop duratic TIME :18:39:00 19:09:00 30 ( LOG :5025.40 5026.80 1.60 FDEPTH: 126 127 BDEPTH: 126 127 Towing dir: 350 Wire of Sorted: 154 Kg Total cat  SPECIES  Trachurus capensis Dentex macrophthalmus Merluccius capensis, female Synagrops microlepis Pterothrissus belloci MYCTOPHIDAE Merluccius capensis, male Trigla lyra Callorhinchus capensis Mustelus mustelus Merluccius capensis Mustelus mustelus Merluccius capensis Total  DATE:27/11/92 GEAR Start stop duratio Synagrops opini Start stop duratio TIME :06:37:00 07:06:00 29 ( LOG :5094.10 5095.40 1.30 FDEPTH: 123 121 Towing dir: 360 Wire of Sorted: 69 Kg Total cat  SPECIES  Dentex macrophthalmus Merluccius capensis, female Merluccius capensis Ceus faber	min) Purpose of Area code GearCond Validity view of the November of the Novemb	POSITION: L. code: 3 e: 7 .code: code: cod	at s 1742 ong E 1136  3977.74  C. C SAMP.NO54 618 .05 617 .01 615 .65 .08 .05 617 .01 615 .65 .08 .05 617 .01 615 .65 .08 .09 .00  STATION:1500 at S 1802 ong E 1138  547.37  C C SAMP.NO11 625 .43 627 .94 622 .94 622 .94 622 .94 622 .95 623 .77 .94 622 .95 623 .77 .94 622 .95 623 .77
BDEPTH: 345 374 Towing dir: 340 Wire of Towing dir: 340 Wire of Sorted: 134 Kg Total cat SPECIES  Merluccius capensis, female Helicolenus dactylopterus Merluccius capensis, male Hoplostethus cadenati Merluccius polli, female Laemonema laureysi Shrimps, small, non comm. Todarodes sagittatus Zenopsis conchifer Dentex macrophthalmus Aristeus varidens Yarella blackfordi Merluccius paradoxus, female Chlorophthalmus atlanticus Merluccius polli, male Coelorinchus coelorinch, polli Lepidopus caudatus Malacocephalus occidentalis Epigonus denticulatus Nezumia milleri Galeus polli Lycoteuthis diadema PORTUNIDAE MYCTOPHIDAE  Total  DATE:26/11/92 GEAR Start Stop duratio TIME :12:43:00 13:13:00 30 (CAS :4985.90 4987.60 1.50 LOS :4985.90 4987.60 1.50	Area code : 6 GearCond.code: Validity code:	n*10  /HOUR: 55  OF TOT. C S  49.65 12.14 10.70 5.30 4.52 3.73 3.24 2.34 1.37 1.30 0.89 0.86 0.45 0.31 0.27 0.14 0.09 0.07 0.07 0.07 0.07 0.07 0.07 0.04 100.00  ROJECT STATICTION:Lat S Long E  n*10 /HOUR: 423	5.12  SAMP.NO. 598 597 602  600 599 601  ON:1496 1732 1124  7.60  SAMP.NO.	start stop duratic TIME :18:39:00 19:09:00 30 ( LOG :5025.40 5026.80 1.60 FDEPTH: 126 127 BDEPTH: 126 127 Towing dir: 350 Wire of Sorted: 154 Kg Total cat  SPECIES  Trachurus capensis Dentex macrophthalmus Merluccius capensis, female Synagrops microlepis Pterothrissus belloci MYCTOPHIDAE Merluccius capensis, male Trigda lyra Callorhinchus capensis Mustelus mustelus Merluccius capensis Mustelus mustelus Merluccius copensis Total  DATE:27/11/92 GEAR Start stop duratio Synagrops of Sorted: 5094.10 5095.40 1.30 FDEPTH: 123 121 Towing dir: 360 Wire of Sorted: 69 Kg Total cat  SPECIES  Dentex macrophthalmus Merluccius capensis, female Merluccius capensis Total	min) Purpose of Area code GearCond Validity view of the November of the Novemb	POSITION:L.  code: 3 e: 7 .code: code: code: 3 ed: 32 kn*10  CATCH/HOUR:  DUR   OF TOT umbers	at s 1742 ong E 1136  3977.74  C. C SAMP.NO. 54 618 05 617 01 615 65 08 05 617 01 615 66 09  STATION:1500 at S 1802 ong E 1138  547.37  C SAMP.NO. 11 625 04 624 43 627 94 622 377 94 622 377 94 622 377 94 622 377 94 622 377 94 622 377 94 622 377 94 622 375 623
BDEPTH: 345 374 Towing dir: 340 Wire of Towing dir: 340 Wire of Sorted: 134 Kg Total cat SPECIES  Merluccius capensis, female Helicolenus dactylopterus Merluccius capensis, male Hoplostethus cadenati Merluccius polli, female Laemonema laureysi Shrimps, small, non comm. Todarodes sagittatus Zenopsis conchifer Dentex macrophthalmus Aristeus varidens Yarella blackfordi Merluccius paradoxus, female Chlorophthalmus atlanticus Merluccius paradoxus, male Merluccius polli, male Coelorinchus coelorinch. polli Lepidopus caudatus Merluccius polli, male Merluccius polli, male Merluccius polli Coelorinchus Coelorinchus Nezumia milleri Galeus polli Lycoteuthis diadema PORTUNIDAE MYCTOPHIDAE  Total  DATE: 26/11/92 GEAR MYCTOPHIDAE  Total  DATE: 248/11/92 GEAR Start Stop duratio TIME : 12:43:00 13:13:00 30 (LOS : 4985.90 4987.60 1.50 (LOS : 4985.90 4987.60 1.50 (EAR STEPPHE) 248 246 (EAR STEPPHE) 248 248 (EAR STEPPHE) 248 246 (EAR STEPPHE) 248 248 (EAR STEPPHE) 248 246	Area code : 6 GearCond.code: 16 GearCond.code: 31 k ch: 277.56 CATCH  CATCH/HOUR weight numbers 275.60 294 67.40 606 59.40 76 29.40 2578 25.10 40 20.70 400 13.00 34 7.60 8 7.20 20 6.50 818 5.00 40 2.52 4 1.88 110 2.52 4 1.88 1.70 40 1.50 10 0.50 10 0.40 10 0.50 20 0.40 60 0.40 10 0.50 20 0.40 10 0.50 20 0.40 10 0.50 20 0.40 10 0.50 20 0.40 10 0.50 20 0.40 10 0.40 20 0.20 30  TYPE: BT No:1 POSI numbers 34 Area code : 5 GearCond.code: Ualidity code: Ualidity code: Ualidity code: Ualidity code: Ualidity code: Validity code: Ualidity code: Uali	N*10  /HOUR: 55  OF TOT. C S  49.65 12.14 10.70 5.30 4.52 3.73 3.24 2.34 1.37 1.30 1.17 0.90 0.86 0.45 0.34 0.31 0.27 0.14 0.09 0.07 0.07 0.07 0.07 0.07 0.07 0.07	5.12 SAMP.NO. 598 597 602  600 599 601  ON:1496 1732 1124	start stop duratio TIME :18:39:00 19:09:00 30 0 LOG :5025.40 5026.80 1.60 6 FDEPTH: 126 127 BDEPTH: 126 127 Towing dir: 350 Wire o Sorted: 154 Kg Total cat  SPECIES  Trachurus capensis Dentex macrophthalmus Merluccius capensis, female Synagrops microlepis Petrothrissus belloci MYCTOPHIDAE Merluccius capensis, male Triqla lyra Callorhinchus capensis Mustelus mustelus Merluccius polli Squalus megalops Ophisurus serpens  Total  DATE:27/11/92 GEAR Start stop duratio TIME :06:37:00 07:06:00 29 ( LOG :5094.10 5095.40 1.30 FDEPTH: 123 121 BDEPTH: 123 121 Towing dir: 360 Wire o Sorted: 69 Kg Total cat  SPECIES  Dentex macrophthalmus Merluccius capensis, female Trachurus capensis, female Merluccius capensis Zeus faber Squalus megalops Thysites atun Triqla lyra MYCTOPHIDAE Atractoscion aequidens	min) Purpose of Area code GearCond.  CATCH/HO Weight nt 1771.60 1195.40 358.40 122.40 100.60 91.80 67.00 37.80 30.00 14.40 3.40 0.14  TYPE: BT No:1 n min) Purpose of Area code GearCond. Validity ut: 450 m Speech: 264.56  CATCH/HO Weight nu 181.59 57.10 43.45 40.22 20.61 15.39 13.41	POSITION: L. code: 3 e: 7 .code: 7 .code: 2 code: 1 code: 32 kn*10  CATCH/HOUR:  DUR   OF TOT umbers	at s 1742 ong E 1136  3977.74  C. C SAMP.NO. 54 618 05 617 01 615 65 08 05 617 01 615 665 08 131 614 68 09  TOO  STATION:1500 at s 1802 ong E 1138  547.37  C C SAMP.NO. 11 625 04 624 43 627 94 622 35 623 777 45 623 88 81 41
BDEPTH: 345 374 Towing dir: 340 Wire of Towing dir: 340 Wire of Sorted: 134 Kg Total cat SPECIES  Merluccius capensis, female Helicolenus dactylopterus Merluccius capensis, male Hoplostethus cadenati Merluccius polli, female Laemonema laureysi Shrimps, small, non comm. Todarodes sagittatus Zenopsis conchifer Dentex macrophthalmus Aristeus varidens Yarella blackfordi Merluccius paradoxus, female Chlorophthalmus atlanticus Merluccius paradoxus, male Merluccius paradoxus, male Merluccius polli, male Coelorinchus coelorinch, polli Lepidopus caudatus Malacocephalus occidentalis Epigonus denticulatus Nezumia milleri Galeus polli Lycoteuthis diadema PORTUNIDAE MYCTOPHIDAE  Total  DATE: 26/11/92 GEAR MYCTOPHIDAE  Total  DATE: 248 246 Towing dir: 5 Wire of Sorted: Kg Total cat SPECIES  Merluccius capensis, female Merluccius capensis, male Dentex macrophthalmus Helicolenus dactylopterus Chlorophthalmus atlanticus	Area code : 6 GearCond.code: Validity code:	N*10 /HOUR: 55 OF TOT. C S 49.65 12.14 10.70 5.30 4.52 3.73 3.24 2.34 1.37 1.30 1.17 0.90 0.86 0.45 0.34 0.31 0.27 0.14 0.09 0.07 0.07 0.07 0.07 0.07 0.04 100.00  ROJECT STATIC TION: Lat S Long E  **T.99 15.52 4.41 0.82 0.76	5.12  SAMP.NO. 598 597 602  600 599 601  ON:1496 1732 1124  7.60  SAMP.NO. 604 603	start stop duratio TIME :18:39:00 19:09:00 30 0 LOG :5025.40 5026.80 1.60 FDEPTH: 126 127 BDEPTH: 126 127 Towing dir: 350 Wire o Sorted: 154 Kg Total cat  SPECIES  Trachurus capensis Dentex macrophthalmus Merluccius capensis, female Synagrops microlepis Petrothrissus belloci MYCTOPHIDAE Merluccius capensis, male Triqla lyra Callorhinchus capensis Mustelus mustelus Merluccius polli Squalus megalops Ophisurus serpens  Total  DATE:27/11/92 GEAR Start stop duratio TIME :06:37:00 07:06:00 29 LOG :5094.10 5095.40 1.30 FDEPTH: 123 121 Towing dir: 360 Wire o Sorted: 69 Kg Total cat  SPECIES  Dentex macrophthalmus Merluccius capensis, female Trachurus capensis Merluccius capensis Trachurus capensis Merluccius capensis Merluccius capensis Merluccius capensis Trachurus capensis Merluccius capensis Merluccius capensis Merluccius capensis Merluccius capensis Merluccius capensis Merluccius capensis Trachurus capensis Merluccius capensis Merluccius capensis Trachurus capensis Merluccius capensis Merluccius capensis Trachurus capensis Merluccius capensis	min) Purpose of Area code GearCond Validity Vali	POSITION: L. code: 3	at s 1742 ong E 1136  3977.74  C. C SAMP.NO54 618 .05 617 .01 615 .65 .08 .31 614 .68 .95 .75 .36 616 .09  STATION:1500 at s 1802 ong E 1138  547.37  C SAMP.NO11 625 .04 624 .43 627 .94 622 .35 623 .77 .81 620 .88 .41 620 .88 .41 620 .88 .41 620 .88 .88 .42 626 .25
BDEPTH: 345 374 Towing dir: 340 Wire of Sorted: 134 Kg Total cat  SPECIES  Merluccius capensis, female Helicolenus dactylopterus Merluccius capensis, male Hoplostethus cadenati Merluccius polli, female Laemonema laureysi Shrimps, small, non comm. Todarodes sagittatus Zenopsis conchifer Dentex macrophthalmus Aristeus varidens Yarella blackfordi Merluccius polli, male Chlorophthalmus atlanticus Merluccius paradoxus, female Chlorophthalmus atlanticus Merluccius polli, male Coelorinchus coelorinch, polli Lepidopus caudatus Malacocephalus occidentalis Epigonus denticulatus Nezumia milleri Galeus polli Lycoteuthis diadema PORTUNIDAE MYCTOPHIDAE  Total  DATE:26/11/92 GEAR STORT STOR	Area code : 6 GearCond.code: 16 GearCond.code: 31 k ch: 277.56 CATCH  CATCH/HOUR weight numbers 275.50 294 67.40 606 59.40 76 29.40 2578 25.10 40 20.70 400 13.00 34 7.60 8 7.20 20 6.50 818 5.00 20 4.92 8 4.80 110 2.52 4 1.88 4 1.70 40 1.50 10 0.80 10 0.50 20 0.40 60 0.40 10 0.50 20 0.40 60 0.40 10 0.50 20 0.40 60 0.40 10 0.50 20 0.40 60 0.40 10 0.50 20 0.40 60 0.40 10 0.50 20 0.555.12  TYPE: BT No:1 POSI In	N*10  //HOUR: 55  OF TOT. C S  49.65 12.14 10.70 5.30 4.52 3.73 3.24 2.34 1.37 1.37 1.37 1.37 1.37 1.37 1.37 1.37	5.12  SAMP.NO. 598 597 602  600 599 601  ON:1496 1732 1124  7.60  SAMP.NO. 604 603	start stop duratic TIME :18:39:00 19:09:00 30 0 LOG :5025.40 5026.80 1.60 FDEPTH: 126 127 Towing dir: 350 Wire of Sorted: 154 Kg Total cat  SPECIES  Trachurus capensis Dentex macrophthalmus Merluccius capensis, female Synagrops microlepis Petrothrissus belloci MYCTOPHIDAE Merluccius capensis, male Triqla lyra Callorhinchus capensis Mustelus mustelus Merluccius polli Squalus megalops Ophisurus serpens  Total  DATE:27/11/92 GEAR Start stop duratio Time: 06:37:00 07:06:00 29 0 LOG :5094.10 5095.40 1.30 FDEPTH: 123 121 Towing dir: 360 Wire of Sorted: 69 Kg Total cat  SPECIES  Dentex macrophthalmus Merluccius capensis, female Trachurus capensis Merluccius capensis Trachurus capensis Merluccius capensis Merluccius capensis Trachurus capensis Merluccius capensis Seus faber Squalus megalops Thyrsites atun Triqla lyra MYCTOPHIDAE Atractoscion aequidens Merluccius polli Helicolenus datctylopterus Pterothrissus belloci Synagrops microlepis	min) Purpose of Area code GearCond Validity Vali	POSITION:L.  code: 3 e: 7 .code: code: d. code: d. code: 8 code: 1 cod	at s 1742 ong E 1136  3977.74  C. C SAMP.NO54 618 .05 617 .01 615 .65 .08 .31 614 .68 .95 .75 .36 616 .09  STATION:1500  STATION:1500  STATION:1500  STATION:250 625 .04 622 .35 623 .77 .45 .13 620 .88 .41 .52 .62 .62 .62 .62 .62 .62 .62 .62 .62 .6
BDEPTH: 345 374 Towing dir: 340 Wire of Sorted: 134 Kg Total cat  SPECIES  Merluccius capensis, female Helicolenus dactylopterus Merluccius capensis, male Hoplostethus cadenati Merluccius polli, female Laemonema laureysi Shrimps, small, non comm. Todarodes sagittatus Zenopsis conchifer Dentex macrophthalmus Aristeus varidens Yarella blackfordi Merluccius polli, male Chlorophthalmus atlanticus Merluccius polli, male Coelorinchus coelorinch polli Lepidopus caudatus Malacocephalus occidentalis Epigonus denticulatus Nezumia milleri Galeus polli Lyocteuthis diadema PORTUNIDAE MYCTOPHIDAE  Total  DATE: 26/11/92 GERN MYCTOPHIDAE  Total  DATE: 243:00 13:13:00 30 (LOG: 4985.90 4987.60 1.50 FDEPTH: 248 246 BDEPTH: 248 246 Towing dir: 5 Wire o Sorted: Kg Total cat SPECIES  Merluccius capensis, female Merluccius capensis, male Dentex macrophthalmus atlanticus Squalus megalops Trachurus capensis	Area code : 6 GearCond.code: Validity code: Validit	N*10  /HOUR: 55  OF TOT. C S  49.65 12.14 10.70 5.30 4.52 3.73 3.24 2.34 1.37 1.30 1.17 0.90 0.86 0.45 0.34 0.31 0.27 0.14 0.09 0.07 0.07 0.07 0.07 0.04  100.00  ROJECT STATIC TION: Lat S Long E  **Tong E	5.12  SAMP.NO. 598 597 602  600 599 601  ON:1496 1732 1124  7.60  SAMP.NO. 604 603	start stop duratic TIME :18:39:00 19:09:00 30 ( LOG :5025.40 5026.80 1.60 FDEPTH: 126 127 BDEPTH: 126 127 Towing dir: 350 Wire of Sorted: 154 Kg Total cat  SPECIES  Trachurus capensis Dentex macrophthalmus Merluccius capensis, female Synagrops microlepis Pterothrissus belloci MYCTOPHIDAE Merluccius capensis, male Trigla lyra Callorhinchus capensis Mustelus mustelus Merluccius capensis Mustelus mustelus Merluccius capensis Total  DATE:27/11/92 GEAR Start stop duratio Synagrops ophisurus serpens  Total  DATE:27/11/92 GEAR Start stop duratio TIME :06:37:00 07:06:00 29 LOG :5094.10 5095.40 1.30 FDEPTH: 123 121 Towing dir: 360 Wire of Sorted: 69 Kg Total cat  SPECIES  Dentex macrophthalmus Merluccius capensis, female Trachurus capensis Merluccius capensis, female Trachurus capensis Merluccius capensis, male Chelidonichthys capensis Squalus megalops Thyrsites atun Trigla lyra MYCTOPHIDAE Atractoscion aequidens Merluccius capenli Helicolenus dactylopterus Pterothrissus belloci	min) Purpose of Area code GearCond.  CATCH/HO Weight nt 1771-60 1195.40 358.40 122.40 100.60 91.80 67.00 37.80 30.00 14.40 3.774  TYPE: BT No:1 nmin) Purpose of Area code GearCond. Validity ut: 450 m Speech: 264.56  CATCH/HO Weight nu 181.24 131.59 57.10 43.45 40.22 20.61 15.39 13.41 11.67 10.30 7.70 7.12 2.86 1.37 1.12	POSITION: L. code: 3 e: 7 code: 7 code: 7 code: 20 code: 8 code: 8 d: 32 kn*10  CATCH/HOUR:  DUR	at s 1742 ong E 1136  3977.74  C. C SAMP.NO. 54 618 05 617 01 615 65 08 08 131 614 68 95 7.75 336 616 09  STATION:1500 at S 1802 ong E 1138  547.37  C C SAMP.NO. 11 625 04 624 43 627 94 622 35 623 77 81 45 13 620 88 88 88 88 88 60 88 88 88 61 61 61 62 62 62 62 62 62 62 62 62 62 62 62 62

4237.60

100.01

Total

547.38

100.00

start stop durati	on			start stop durati	AR TYPE: BT No:1	POSIT		FION:1505 S 1826 E 1132
TIME :08:56:00 09:09:00 13 LOG :5102.20 5102.70 0.50 FDEPTH: 219 221 BDEPTH: 219 221 Towing dir: 340 Wire	(min) Purpose code: Area code : GearCond.code: Validity code: out: 800 m Speed: 30	8 1		TIME :16:59:00 17:29:00 30 LOG :5150.30 5151.80 1.52 FDEPTH: 229 234 BDEPTH: 229 234 Towing dir: 360 Wire	(min) Purpose Area cod GearCond Validity out: 800 m Spe	le : 5 i.code: / code:	·*10	
Sorted: 116 Kg Total ca			552.60	Sorted: 195 Kg Total ca		CATCH/		088.32
SPECIES	CATCH/HOUR weight numbers	% OF TOT. C	SAMP.NO.	SPECIES	CATCH/H	OUR %	OF TOT. C	SAMP.NO.
Merluccius capensis, female Merluccius capensis, male Dentex macrophthalmus	318.00 383 86.31 157	57.55 15.62	628 621	Merluccius capensis, female	weight n 1564.80	umbers 2592	50.67	641
Helicolenus dactylopterus Trachurus capensis	58.15 254 23.45 185 23.17 106	10.52 4.24 4.19	629 630	Merluccius capensis, male Helicolenus dactylopterus Chlorophthalmus atlanticus	558.40 312.00 304.00	1152 780 11302	18.08	640
Pterothrissus belloci Chlorophthalmus atlanticus	22.25 115 9.23 277	4.03	030	Dentex macrophthalmus Trachurus capensis	176.00 91.20	592 320	9.84 5.70 2.95	643 644
Synagrops microlepis Squalus megalops	4.15 323 3.69 5	0.75 0.67		Krill Merluccius polli	29.60 19.84	336	0.96 0.64	642
Coelorinchus coelorinch, polli Merluccius polli	3.23 92 0.97 14	0.58 0.18		Pterothrissus belloci Synagrops microlepis Raja straeleni	11.20 10.56 2.76	48 720 4	0.36 0.34 0.09	
Total	552.60	100.00		Hyperoglyphe moselii Parapenaeus longirostris	2.52 1.92	2 240	0.08	
		PROJECT STAT	TTON:1502	Todaropsis eblanae Coelorinchus coelorinch, polli Munida sp.	0.80 0.64	96 16 96	0.03	
start stop durati	R TYPE: BT No:1 PO on	SITION:Lat	S 1801 E 1124	Sufflogobius bibarbatus MYCTOPHIDAE	0.64 0.48 0.32	160 128	0.02 0.02 0.01	
TIME :10:53:00 11:22:00 29 LOG :5113.10 5114.60 1.50 FDEPTH: 408 405	<pre>(min) Purpose code:     Area code :     GearCond.code:</pre>	3 5		Solenocera africana PORTUNIDAE	0.32 0.16	32 16	0.01	
BDEPTH: 408 405	Validity code: out:1100 m Speed: 29	kn*10		Nezumia milleri Total	3088.32	16	100.00	
Sorted: 174 Kg Total ca			097.23				20000	
SPECIES	CATCH/HOUR weight numbers	% OF TOT. C	SAMP.NO.			PR	OJECT STAT	TON-1506
Merluccius capensis, female Merluccius capensis, male Helicolenus dactylopterus	1258.78 1074 392.23 422 99.52 759	60.02 18.70 4.75	632 631	start stop durati		POSIT	ION:Lat	S 1823 E 1141
Hoplostethus cadenati Laemonema laureysi	62.28 2969 56.96 869	2.97 2.72		TIME :18:52:00 19:22:00 30 LOG :5163.70 5165.30 1.50 FDEPTH: 141 141	(min) Purpose Area cod GearCond	e : 5		
Deania profundorum Merluccius paradoxus, female	53.21 97 47.42 97	2.54 2.26	634	BDEPTH: 141 141	Validity out: 600 m Spe	code:	*10	
Epigonus denticulatus Nezumia milleri Shrimps, small, non comm.	34.39 966 26.32 1219 19.68	1.64 1.25 0.94		Sorted: 170 Kg Total ca	tch: 2765.56	CATCH/	HOUR: 55	31.12
Coelorinchus coelorinch, polli Chlorophthalmus atlanticus	6.87 132 5.92 145	0.33 0.28		SPECIES	CATCH/HC	OUR % C	OF TOT. C	SAMP.NO.
Aristeus varidens Todarodes sagittatus Galeus polli	5.67 677 5.54 12 4.94 25	0.27 0.26 0.24		Merluccius capensis, female	2062.50	umbers 6402	37.29	647
Merluccius paradoxus, male Etmopterus pusillus	4.94 12 3.37 12	0.24 0.16	633	Trachurus capensis Merluccius capensis, male Dentex macrophthalmus	1821.60 735.90 729.30	2904 3168 4752	32.93 13.30 13.19	650 646 649
Ebinania costaecanarie Histioteuthis reversa Schedophilus huttoni	3.02 97 2.42 35	0.14		Pterothrissus belloci Helicolenus dactylopterus	62.40 54.80	562 1420	1.13 0.99	
Lophius upsicephalus Ophisurus serpens	1.45 2 1.32 2 0.97 35	0.07 0.06 0.05		Merluccius polli Synagrops microlepis Lepidopus caudatus	26.80 18.80 7.92	396 1222 66	0.48 0.34 0.14	648
Total	2097.22	100.01		Thyrsites atun MYCTOPHIDAE	5.50 4.60	2	0.10	645
				Todaropsis eblanae Sufflogobius bibarbatus	0.66 0.34	34 66	0.01	
DATE: 27/11/92 GEA	R TYPE: BT No:1 PO:	PROJECT STAT SITION:Lat		Total	5531.12		99.99	
Start stop durati: TIME :13:10:00 13:40:00 30 LOG :5128.30 5129.60 1.50 FDEPTH: 600 603 BDEPTH: 600 603	on .	Long 3 8	E 1123		R TYPE: BT No:1			S 1926
Start stop durati: TIME :13:10:00 13:40:00 30 LOG :5128.30 5129.60 1.50 FDEPTH: 600 603 BDEPTH: 600 603	on (min) Purpose code: Area code : GearCond.code: Validity code: out:1650 m Speed: 29	Long 3 8 kn*10		start stop durati- TIME :06:25:00 06:53:00 28 LOG :5236.40 5238.00 1.50	on (min) Purpose ( Area code	POSIT		S 1926
Start stop duratic TIME :13:10:00 13:40:00 30 LOG :5128.30 5129.60 1.50 FDEPTH: 600 603 BDEPTH: 600 603 Towing dir: 180 Wire 6	on (min) Purpose code: Area code: GearCond.code: Validity code: cut:1650 m Speed: 29 cch: 166.82 CATC	Long 3 8 kn*10	E 1123	start stop durati: TIME :06:25:00 06:53:00 28 LOG :5236.40 5238.00 1.50 FDEPTH: 351 319 BDEFTH: 351 319	on (min) Purpose (	POSIT	ION:Lat : Long	S 1926
start stop duratic TIME :13:10:00 13:40:00 30 LOG :5128.30 5129.60 1.50 EDEPTH: 600 603 Towling dir: 180 Wire of Sorted: 25 Kg Total cat  SPECIES Trachyrinus scabrus	on (min) Purpose code: Area code: GearCond.code: Validity code: cot:1650 m Speed: 29 cch: 166.82 CATC  CATCH/HOUR Weight numbers 124.80 540	Long 3 8 kn*10 CH/HOUR: 3 % OF TOT. C 37.41	E 1123	start stop durati: TIME :06:25:00 06:53:00 28 LOG :5236.40 5238.00 1.50 FDEPTH: 351 319 BDEFTH: 351 319	on (min) Purpose Area code GearCond Validity out:1000 m Spec	POSIT	ION:Lat : Long	S 1926
start stop duratic TIME :13:10:00 13:40:00 30 LOG :5128.30 5129.60 1.50 FDEPTH: 600 603 Towing dir: 180 Wire of Sorted: 25 Kg Total cat  SPECIES Trachyrinus scabrus Nezumia milleri Hoplostethus cadenati Merluccius capensis, female	on (min) Purpose code:     Area code :     GearCond.code:     Validity code:     validity code:     ch: 166.82 CATC      CATCH/HOUR     weight	Long 3 8 kn*10 CH/HOUR: 3	E 1123	start stop durati: TIME::06:25:00 06:53:00 28 LOG::5236.40 5238.00 1.50 FDEPTH: 351 319 BDEPTH: 351 319 Towing dir: 360 Wire	on (min) Purpose Area code GearCond Validity out:1000 m Spectch: 609.12	POSIT: code: 3 e : 6 .code: code: ed: 31 km	Long 1	S 1926 E 1141
start stop duratic TIME: 13:10:00 13:40:00 30 LOG: 5128.30 5129.60 1.50 FDEPTH: 600 603 Towing dir: 180 Wire of Sorted: 25 Kg Total cat  SPECIES  Trachyrinus scabrus Nezumia milleri Hoplostethus cadenati Merluccius capensis, female Alepocephalus sp. Etmopterus pusillus	on (min) Purpose code:     Area code :     GearCond.code:     Validity code:     validity code:     ch: 166.82 CATC      CATCH/HOUR     weight numbers     124.80 540     38.40 1056     28.80 408     26.80 408     25.32 84     20.04 36	3 8	E 1123	start stop durati: TIME:06:25:00 06:53:00 28 LOG:5236.40 5238.00 1.50 FDEPTH: 351 319 BDEPTH: 351 319 Towing dir: 360 Wire  Sorted: 165 Kg Total car  SPECIES Merluccius capensis, female	on (min) Purpose in Area code GearCond Validity out:1000 m Spectch: 609.12  CATCH/HC weight ni 927.43	POSIT: code: 3 e : 6 .code: code: code: ed: 31 kn CATCH/S DUR & C umbers 707	*10 HOUR: 13  F TOT. C  71.05	S 1926 E 1141 05.26 SAMP.NO.
start stop duratic TIME :13:10:00 13:40:00 30 LOG :5128.30 5129.60 1.50 FDEPTH: 600 603 BDEPTH: 600 603 Towing dir: 180 Wire of Sorted: 25 Kg Total can  SPECIES  Trachyrinus scabrus Nezumia milleri Hoplostethus cadenati Merluccius capensis, female Alepocephalus ap. Etmopterus pusillus Aristeus varidens Deania profundorum Glyphus marsupialis	on (min) Purpose code:     Area code:     GearCond.code:     Validity code:     validity code:     ch: 166.82 CATC      CATCH/HOUR     Weight numbers     124.80 540     38.40 1056     28.80 408     26.80 8     25.32 84	Long 3 8 kn*10 CH/HOUR: 3 4 OF TOT. C 37.41 11.51 8.63 8.03 7.59	E 1123	start stop durati- TIME:06:25:00 06:53:00 28 LOG:5236.40 5238.00 1.50 FDEPTH: 351 319 BDEPTH: 351 319 Towing dir: 360 Wire  Sorted: 165 Kg Total car  SPECIES  Merluccius capensis, female Merlicolenus dactylopterus	on (min) Purpose Area codo GearCond Validity out:1000 m Spectch: 609.12  CATCH/HC weight n 927.43 183.21 136.29	POSIT: code: 3 e : 6 .code: code: ed: 31 kn CATCH/:  DUR & Cumbers 707 180 3152	*10	S 1926 E 1141
start stop duratic TIME :13:10:00 13:40:00 30 LOG :5128.30 5129.60 1.50 FDEPTH: 600 603 TOWING dir: 180 Wire of Sorted: 25 Kg Total cat  SPECIES  Trachyrinus scabrus Nezumia milleri Hoplostethus cadenati Merluccius capensis, female Alepocephalus sp. Etmopterus pusilius Aristeus varidens Deania profundorum Glyphus marsupialis Raja confundens Merluccius capendoxus, female	On (min) Purpose code:     Area code :     GearCond.code:     Validity code:     validity code:     ch: 166.82 CATC      CATCH/HOUR     weight	3 8	E 1123	start stop durati: TIME: 106:25:00 06:53:00 28 LOG: 5236.40 5238.00 1.50 FDEPTH: 351 319 BDEFTH: 351 319 Towing dir: 360 Wire  Sorted: 165 Kg Total car  SPECIES Merluccius capensis, female Merluccius capensis, male Helicolenus dactylopterus Galeus polli Coelorinchus coelorinch. polli Todarodes sagittatus	on (min) Purpose Area cod GearCond Validity Validity validity out:1000 m Spertch: 609.12  CATCH/HC Weight ni 927.43 183.22 136.29 20.79 6.86 6.64	POSIT: code: 3 e : 6 .code: code: ed: 31 kn  CATCH/  OUR & C  umbers 707 180	*10 HOUR: 13	S 1926 E 1141 05.26 SAMP.NO.
start stop duratic TIME :13:10:00 13:40:100 30 LOG :5128.30 5129.60 1.50 FDEPTH: 600 603 TOWING dir: 180 Wire of Sorted: 25 Kg Total cat  SPECIES  Trachyrinus scabrus Nezumia milleri Hoplostethus cadenati Merluccius capensis, female Alepocephalus sp. Etmopterus pusillus Aristeus varidens Deania profundorum Glyphus marsupialis Raja confundens Merluccius paradoxus, female Ophisurus serpens Varella blackfordi	On (min) Purpose code: Area code : GearCond.code: Validity code: cout:1650 m Speed: 29 cch: 166.82 CATC  CATCH/HOUR Weight numbers 124.80 540 28.80 408 26.80 88 25.32 84 20.04 36 19.92 1104 18.12 24 9.36 7.56 36 4.20 6 1.92 24 1.80 60	Long 3 8	E 1123	start stop durati: TIME: 106:25:00 06:53:00 28 LOG: 5236.40 5238.00 1.50 FDEPTH: 351 319 BDEFTH: 351 319 Towing dir: 360 Wire  Sorted: 165 Kg Total car  SPECIES Merluccius capensis, female Merluccius capensis, male Helicolenus dactylopterus Galeus polli Coelorinchus coelorinch. polli Todarodes sagittatus Nezumia milleri Lophius upsicephalus	on (min) Purpose Area cod GearCond Validity Validity validity out:1000 m Spertch: 609.12  CATCH/HC Weight ni 927.4 3 183.21 136.29 20.79 6.86 6.44 6.43 6.32	POSIT: code: 3 e.code: code: code: code: code: a1 kn CATCH/:  OUR & C umbers 707 180 3152 180 174 11 272 6	*10 HOUR: 13:  *10 HOUR: 13:  *10 1 .05  14.04  1.59  0.53  0.51  0.49  0.48	S 1926 E 1141 05.26 SAMP.NO.
start stop duratic TIME :13:10:00 13:40:00 30 LOG :5128.30 5129.60 1.50 FDEPTH: 600 603 BDEPTH: 600 603 Towing dir: 180 Wire of Sorted: 25 Kg Total car  SPECIES  Trachyrinus scabrus Nezumia milleri Merluccius capensis, female Alepocephalus sp. Etmopterus pusilius Aristeus varidens Deania profundorum Glyphus marsuptalis Raja confundens Merluccius paradoxus, female Ophisurus serpens Yarella blackfordi Todarodes sagittatus Schedophilus huttoni Schedophilus huttoni	CATCH/HOUR weight numbers 124.80 540 28.80 408 25.32 84 20.04 36 19.92 1104 18.12 24 9.36 4.20 6 1.92 24 1.80 60 1.76 4 1.20 2 1.20 2	Long 3 8	E 1123	start stop durati: TIME:06:25:00 06:53:00 28 LOG:5236.40 5238.00 1.50 FDEPTH: 351 319 BDEPTH: 351 319 Towing dir: 360 Wire  Sorted: 165 Kg Total car  SPECIES  Merluccius capensis, female Merluccius capensis, male Helicolenus dactylopterus Galeus polli Coelorinchus coelorinch. polli Todarodes sagittatus Nezumia milleri Lophius upsicephalus Schedophilus huttoni Ebinania costaecanarie	on (min) Purpose in Area code GearCond Validity validity out:1000 m Spertch: 609.12  CATCH/HC Weight ni 927.43 183.21 136.29 20.79 6.86 6.64 6.43 6.32 4.29 2.64	POSIT: code: 3 e : 6 code: code: code: GATCH/: CATCH/: DUR & C umbers 707 180 3152 180 174 11 272 6 2 26	*10 HOUR: 13  *10  *10  *10  *10  *10  *10  *10  *	S 1926 E 1141 05.26 SAMP.NO. 653 652
start stop duratic TIME :13:10:00 13:40:00 30 LOG :5128.30 5129.60 1.50 FDEPTH: 600 603 BDEPTH: 600 603 Towing dir: 180 Wire of Sorted: 25 Kg Total can  SPECIES  Trachyrinus scabrus Nezumia milleri Merluccius cadenati Merluccius cadenati Merluccius capensis, female Alepocephalus ap. Etmopterus pusillus Aristeus varidens Deania profundorum Glyphus marsupialis Raja confundens Merluccius paradoxus, female Ophisurus serpens Yarella blackfordi Todarodes sagittatus Schedophilus huttoni Schedophilus marsupialis MycroPhiloEE	CATCH/HOUR Weight numbers 124.80 540 28.80 408 25.32 84 20.04 36 19.92 1104 18.12 24 1.80 60 1.756 4 2.100 2 1.80 60 1.766 4 1.90 2 1.20 2 1.20 2 1.20 6	Long 3 8	E 1123	start stop durati: TIME:06:25:00 06:53:00 28 LOG:5236.40 5238.00 1.50 FDEPTH: 351 319 BDEPTH: 351 319 Towing dir: 360 Wire  Sorted: 165 Kg Total car  SPECIES  Merluccius capensis, female Merluccius capensis, male Helicolenus dactylopterus Galeus polli Coelorinchus coelorinch. polli Todarcdes sagittatus Nezumia milleri Lophius upsicephalus Schedophilus huttoni Ebinania costaecanarie Epigonus denticulatus Laemonema laureysi Chlorophthalmus atlanticus	on (min) Purpose Area cod GearCond Validity Validity Validity Validity Spertch: 609.12  CATCH/RC Weight ni 927.43 183.21 136.29 20.79 6.86 6.43 6.32 4.29 2.64 2.25 0.94 0.75	POSIT  code: 3 e : 6 code: code: code: CATCH/:  CUR & C  UMBERS 707 180 3152 180 3152 180 22 26 58 17 17	*10 HOUR: 13  *TOT. C  71.05 14.04 1.59 0.53 0.51 0.49 0.48 0.33 0.20 0.17 0.07	S 1926 E 1141 05.26 SAMP.NO. 653 652
start stop duratic TIME :13:10:00 13:40:00 30 LOG :5128.30 5129.60 1.50 FDEPTH: 600 603	On (min) Purpose code: Area code: GearCond.code: Validity code: Out:1650 m Speed: 29 Cch: 166.82 CATC  CATCH/HOUR Weight numbers 124.80 1056 28.80 408 26.80 8 25.32 84 20.04 36 19.92 1104 18.12 24 9.36 7.56 36 4.20 6 1.92 24 1.80 60 1.76 4 1.92 24 1.80 60 1.76 4 1.20 2 1.20 2 0.96 12	3 8	E 1123	start stop durati: TIME: 106:25:00 06:53:00 28 LOG: 5236.40 5238.00 1.50 FDEPTH: 351 319 BDEFTH: 351 319 Towing dir: 360 Wire  Sorted: 165 Kg Total car  SPECIES  Merluccius capensis, female Merluccius capensis, male Helicolenus dactylopterus Galeus polli Coelorinchus coelorinch. polli Todarcdes sagittatus Nezumia milleri Lophius upsicephalus Schedophilus huttoni Ebinania costaecanarie Epigonus denticulatus Laemonema laureysi Chlorophthalmus atlanticus MYCTOPHIDAE Lycoteuthis diadema	on (min) Purpose Area cod GearCond Validity Vali	POSIT  code: 3 e : 6 code: code: code: code: code: 100UR & C  code: 180 3152 180 3152 180 22 26 58 17 17 32 9	*10  HOUR: 13  *10  HOUR: 13  OF TOT. C  71.05 14.04 1.59 0.53 0.51 0.49 0.48 0.33 0.20 0.17 0.06 0.01	S 1926 E 1141 05.26 SAMP.NO. 653 652
start stop duratic TIME :13:10:00 13:40:00 30 LOG :5128.30 5129.60 1.50 FDEPTH: 600 603 BDEPTH: 600 603 Towing dir: 180 Wire of the start of the sta	CATCH/HOUR  weight numbers 124.80 1056 28.80 408 25.32 84 20.04 36 19.92 1104 18.12 24 9.36 4.20 6 1.756 36 4.20 6 1.756 4 1.20 2 1.20 2 0.96 60 0.48	3 8	E 1123	start stop durati: TIME :06:25:00 06:53:00 28 LOG :5236.40 5238.00 1.50 FDEPTH: 351 319 BDEPTH: 351 319 Towing dir: 360 Wire  Sorted: 165 Kg Total car  SPECIES  Merluccius capensis, female Merluccius capensis, male Helicolenus dactylopterus Galeus polli Coelorinchus coelorinch. polli Todarodes sagittatus Nezumia milleri Lophius upsicephalus Schedophilus huttoni Ebinania costaecanarie Epigonus denticulatus Laemonema laureysi Chlorophthalmus atlanticus MYCTOPHIDAE	on (min) Purpose in Area code GearCond Validity out:1000 m Spectch: 609.12  CATCH/HC Weight ni 927.43 183.21 136.29 20.79 6.86 6.84 6.32 4.29 2.64 2.25 0.94 0.75 0.17	POSIT:  code: 3 e.code: code: code: d: 31 kn CATCH/I  DUR CATCH/I  100 110 111 111 112 126 58 17 17 17 120 180 174 111 173 180 174 174 175 180 174 174 175 180 174 174 175 180 174 174 175 180 174 174 175 180 174 174 175 180 174 174 175 180 174 175 180 174 175 175 175 175 175 175 175 175 175 175	*10  HOUR: 13  *10  F TOT. C  71.05 14.04 10.44 1.59 0.53 0.51 0.49 0.48 0.33 0.20 0.17 0.07 0.06	S 1926 E 1141 05.26 SAMP.NO. 653 652
start stop duratic TIME :13:10:00 13:40:00 30 LOG :5128.30 5129.60 1.50 FDEPTH: 600 603 BDEPTH: 600 603 Towing dir: 180 Wire of Sorted: 25 Kg Total can  SPECIES  Trachyrinus scabrus Nezumia mileri Hoplostethus cadenati Merluccius capensis, female Alepocephalus ap. Etmopterus pusillus Aristeus varidens Deania profundorum Glyphus marsuplalis Raja confundens Merluccius paradoxus, female Ophisurus serpens Yarella blackfordi Todarodes sagittatus Schedophilus huttoni Selachophidum guentheri MycTOPHIDAE Notacanthus sexspinis Heterocarpus grimaldii Total	CATCH/HOUR weight numbers 124.80 540 38.40 1056 28.80 408 25.32 84 20.04 36 19.92 1104 18.12 24 9.36 7.56 36 4.20 6 1.92 24 1.80 60 1.76 4 1.20 2 1.20 2 1.20 2 0.96 60 0.48 84 0.04 2	Long 3 8  Kn*10 CH/HOUR: 3 4 OF TOT. C 37.41 11.51 8.63 8.03 7.59 6.01 5.97 5.43 2.81 2.27 1.26 0.58 0.58 0.59 0.36 0.29 0.29 0.14 0.10	E 1123 333.64 SAMP.NO. 635	start stop durati: TIME: 106:25:00 06:53:00 28 LOG: 5236.40 5238.00 1.50 FDEPTH: 351 319 BDEFTH: 351 319 Towing dir: 360 Wire  Sorted: 165 Kg Total car  SPECIES  Merluccius capensis, female Merluccius capensis, male Helicolenus dactylopterus Galeus polli Coelorinchus coelorinch. polli Todarodes sagittatus Nezumia milleri Lophius upsicephalus Schedophilus huttoni Ebinania costaecanarie Epigonus denticulatus Laemonema laureysi Chlorophthalmus atlanticus MYCTOPHIDAE Lycoteuthis diadema Solenocera africana	on (min) Purpose Area cod GearCond Validity Vali	POSIT  code: 3 e : 6 code: code: code: code: code: 100UR & C  code: 180 3152 180 3152 180 22 26 58 17 17 32 9	*10  HOUR: 13  PF TOT. C  71.05 14.04 1.59 0.53 0.51 0.49 0.48 0.33 0.20 0.17 0.06 0.01 0.01	S 1926 E 1141 05.26 SAMP.NO. 653 652
start stop duratic TIME :13:10:00 13:40:00 30 LOG :5128.30 5129.60 1.50 FDEPTH: 600 603 BDEPTH: 600 603 Towing dir: 180 Wire of Sorted: 25 Kg Total can  SPECIES  Trachyrinus scabrus Nezumia milleri Hoplostethus cadenati Merluccius capensis, female Alepocephalus sp. Etmopterus pusilius Aristeus varidens Deania profundorum Glyphus marsupialis Raja confundens Merluccius paradoxus, female Ophisurus serpens Yarella blackfordi Todarodes sagittatus Schedophilus huttoni	CATCH/HOUR weight numbers 124.80 540 38.40 1056 28.80 408 25.32 84 20.04 36 19.92 1104 18.12 24 9.36 7.56 42.20 1.80 60 1.76 4 1.20 2 1.80 60 1.76 4 1.80 60 1.76 4 1.80 60 1.96 60 1.96 60 1.96 60 1.96 60 1.96 60 1.97 60 1.97 60 1.98 6	Long 3 8  kn*10 CH/HOUR: 3 4 OF TOT. C 37.41 11.51 8.63 8.03 7.59 6.01 1.2.67 1.26 0.58 0.54 0.53 0.36 0.29 0.14 0.01 100.02  PROJECT STAT	E 1123 333.64 SAMP.NO. 635	start stop durati: TIME :06:25:00 06:53:00 28 LOG :5236.40 5238.00 1.50 FDEPTH: 351 319 BDEPTH: 351 319 Towing dir: 360 Wire of the start of the sta	on (min) Purpose Area code Area code GearCond Validity out:1000 m Spectich: 609.12  CATCH/HC Weight n 927.43 183.21 136.29 20.79 6.86 6.43 6.32 4.29 2.64 2.25 0.94 0.75 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17	POSIT  code: 3 e : 6 code: code: CATCH/:  CATCH/:  DUR & C  umbers 707 180 3152 180 3152 180 174 11 272 26 58 17 32 9 17	*10  HOUR: 13  F TOT. C  71.05 14.04 1.59 0.51 0.49 0.48 0.33 0.20 0.17 0.07 0.06 0.01 0.01 99.99	S 1926 E 1141 05.26 SAMP.NO. 653 652
start stop duratic TIME :13:10:00 13:40:00 30 LOG :5128.30 5129.60 1.50 FDEPTH: 600 603 BDEPTH: 600 603 Towing dir: 180 Wire of the start of the sta	On (min) Purpose code: Area code: Area code: GearCond.code: Validity code: Validi	Long 3 8  kn*10  CH/HOUR: 3  FOF TOT. C  37.41 11.51 8.63 8.03 7.59 6.01 5.97 5.43 2.81 2.27 1.26 0.58 0.54 0.54 0.53 0.36 0.29 0.29 0.14 0.01  100.02  PROJECT STAT SITION: Lat Long 3 7	E 1123 333.64 SAMP.NO. 635 636	start stop durati: TIME: 06:25:00 06:53:00 28 LOG: 5236.40 5238.00 1.50 FDEPTH: 351 319 BDEPTH: 351 319 Towing dir: 360 Wire  Sorted: 165 Kg Total car  SPECIES  Merluccius capensis, female Merluccius capensis, male Helicolenus dactylopterus Galeus polli Coelorinchus coelorinch. polli Todarodes sagitatus Nezumia milleri Lophius upsicephalus Schedophilus huttoni Ebinania costaecanarie Epigonus denticulatus Laemonema laureysi Chlorophthalmus atlanticus MYCTOPHIDAE Lycoteuthis diadema Solenocera africana  Total  DATE: 28/11/92 GEAN start stop duratir TIME: 08:19:00 08:48:00 29 LOG: 5249:00 5250.60 1.40 FDEPTH: 313 312 BDEPTH: 313 312 BDEPTH: 313 312	on (min) Purpose Area code GearCond Validity out:1000 m Spectch: 609.12  CATCH/HC Weight 136.29 20.79 6.86 6.43 6.32 4.29 2.64 2.25 0.94 0.75 0.17 0.17 0.17 0.17 0.19  R TYPE: BT No:1 on (min) Purpose GearCond Validity	POSIT:  code: 3 e : 6 code: code: 6 code: 7 code: 5 co	*10  HOUR: 13  *10  HOUR: 13  OF TOT. C  71.05 14.04 10.44 10.53 0.51 0.49 0.48 0.33 0.20 0.17 0.06 0.01 0.01 0.01 99.99  OJECT STAT. ION: Lat : Long 1	S 1926 E 1141 05.26 SAMP.NO. 653 652 651
start stop duratic TIME :13:10:00 13:40:00 30 LOG :5128.30 5129.60 1.50 FDEPTH: 600 603 BDEPTH: 600 603 Towing dir: 180 Wire of the start of the sta	CATCH/HOUR Weight numbers 124.80 540 38.40 1056 28.80 408 25.32 84 20.04 26 19.92 1104 18.12 26 1.80 60 1.76 4 1.20 2 1.2	Long 3 8  kn*10 CH/HOUR: 3 4 OF TOT. C  37.41 11.51 8.63 8.03 7.59 6.01 5.97 1.26 0.58 0.54 0.53 0.36 0.36 0.29 0.29 0.29 0.29 0.29 0.29 0.29 0.29	E 1123 333.64 SAMP.NO. 635 636	start stop durati: TIME: 06:25:00 06:53:00 28 LOG: 5236.40 5238.00 1.50 FDEPTH: 351 319 BDEPTH: 351 319 Towing dir: 360 Wire  Sorted: 165 Kg Total car  SPECIES  Merluccius capensis, female Merluccius capensis, male Helicolenus dactylopterus Galeus polli Coelorinchus coelorinch. polli Todarodes sagitatus Nezumia milleri Lophius upsicephalus Schedophilus huttoni Ebinania costaecanarie Epigonus denticulatus Laemonema laureysi Chlorophthalmus atlanticus MYCTOPHIDAE Lycoteuthis diadema Solenocera africana  Total  DATE: 28/11/92 GEAN start stop duratir TIME: 08:19:00 08:48:00 29 LOG: 5249:00 5250.60 1.40 FDEPTH: 313 312 BDEPTH: 313 312 BDEPTH: 313 312	on (min) Purpose Area code GearCond Validity Validity Validity Validity Validity Validity National Validity Val	POSIT:  code: 3 e : 6 code: code: 6 code: 7 code: 5 co	*10  HOUR: 13  *10  HOUR: 13  OF TOT. C  71.05 14.04 1.59 0.48 0.33 0.49 0.48 0.33 0.20 0.17 0.06 0.01 0.01 0.01 0.01  JOJECT STAT	S 1926 E 1141 05.26 SAMP.NO. 653 652 651
start stop duratic TIME :13:10:00 13:40:00 30 LOG :5128.30 5129.60 1.50 FDEPTH: 600 603 BDEPTH: 600 603 Towing dir: 180 Wire of the start of the sta	On (min) Purpose code: Area code: GearCond.code: Validity code: Va	Long 3 8  kn*10 CH/HOUR: 3 4 OF TOT. C  37.41 11.51 8.63 8.03 7.59 6.01 5.97 1.26 0.58 0.54 0.53 0.36 0.36 0.29 0.29 0.29 0.29 0.29 0.29 0.29 0.29	E 1123  333.64  SAMP.NO.  635  636  CION:1504 S 1826 E 1127	start stop durati: TIME :06:25:00 06:53:00 28 LOG :5236.40 5238.00 1.50 FDEPTH: 351 319 BDEPTH: 351 319 Towing dir: 360 Wire of the start of the sta	on (min) Purpose in Area cook GearCond Validity out:1000 m Spectch: 609.12  CATCH/HC Weight 136.29 20.79 6.86 6.84 6.32 4.29 2.64 2.25 0.94 0.75 0.17 0.17 0.17 0.09  1305.27  R TYPE: BT No:1 on Area cook GearCond Validity out: 950 m Spectch: 212.14	POSIT:  code: 3  code: 6  code: 6  CATCH/I  CATCH/I  CATCH/I  CATCH/I  CATCH/I  CATCH/I  CATCH/I  CODUR  CATCH/I  CODUR  CATCH/I  CODUR  CODE: 3  CATCH/I  CODE: 3  CATCH/I  CATCH/I  CATCH/I  CODE: 29 km²  CATCH/I	*10  HOUR: 13:  *10  HOUR: 13:  *10  F TOT. C  71.05 14.04 10.44 1.59 0.53 0.51 0.49 0.48 0.33 0.20 0.17 0.07 0.06 0.01 0.01 99.99  OJECT STAT: ION:Lat : Long :  *10  HOUR: 4:	S 1926 E 1141
start stop duratic TIME :13:10:00 13:40:00 30 LOG :5128.30 5129.60 1.50 FDEPTH: 600 603 BDEPTH: 600 603 Towing dir: 180 Wire of Sorted: 25 Kg Total can  SPECIES  Trachyrinus scabrus Nezumia milleri Hoplostethus cadenati Merluccius capensis, female Alepocephalus sp. Etmopterus pusillus Aristeus varidens Deania profundorum Glyphus marsupialis Raja confundens Merluccius paradoxus, female Ophisurus serpens Yarella blackfordi Todarodes sagittatus Schedophilus huttoni Total  DATE:27/11/92 GEAI Start stop duratic TIME :15:27:00 15:57:00 30 LOG :5142.00 5143.50 1.66 FDEPTH: 362 363 BDEPTH: 362 363 BDEPTH: 362 363 BDEPTH: 362 363 SORTERIES  Merluccius capensis, female Centrophorus granulosus	CATCH/HOUR  RTYPE: BT No:1  RT	Long 3 8  kn*10 CH/HOUR: 3 4 OF TOT. C 37.41 11.51 8.63 8.03 7.59 6.01 5.97 5.43 2.81 2.27 1.26 0.58 0.54 0.53 0.36 0.29 0.14 0.01 100.02  PROJECT STATSITION:Lat Long 3 7 kn*10 CH/HOUR: 7	E 1123  333.64  SAMP.NO.  635  636  710N:1504  \$ 1826  E 1127	start stop durati: TIME: 06:25:00 06:53:00 28 LOG: 5236.40 5238.00 1.50 FDEPTH: 351 319 BDEPTH: 351 319 Towing dir: 360 Wire  Sorted: 165 Kg Total cai  SPECIES  Merluccius capensis, female Merluccius capensis, male Helicolenus dactylopterus Galeus polli Coelorinchus coelorinch. polli Todarodes sagittatus Nezumia milleri Lophius upsicephalus Schedophilus huttoni Ebinania costaecanarie Epigonus denticulatus Laemonema laureysi Chlorophthalmus atlanticus MCTOPHIDAE Lycoteuthis diadema Solenocera africana  Total  DATE: 28/11/92 GEAI STATE Stop duratie TIME: 08:19:00 08:48:00 29 LOG: 5249.00 5250.60 1.40 FDEPTH: 313 312 BDEPTH: 313 312 Towing dir: 360 Wire of Sorted: 142 Kg Total cai	on (min) Purpose Area code GearCond Validity Out:1000 m Spectch: 609.12  CATCH/HC Weight no 927.43 183.21 136.29 20.79 6.86 6.64 6.43 6.32 4.29 2.65 0.94 0.75 0.17 0.17 0.17 0.09  1305.27  R TYPE: BT No:1 on (min) Purpose Garcond Validity Out: 950 m Spectch: 212.14	POSIT:  code: 3  code: code: code: code: 31 kn	*10  HOUR: 13  *10  HOUR: 13  OF TOT. C  71.05 14.04 1.59 0.53 0.51 0.49 0.48 0.33 0.20 0.17 0.06 0.01 0.01 0.01 99.99  DJECT STAT ION:Lat Long  *10  HOUR: 4:  *10  HOUR: 4: 53.53	S 1926 E 1141 05.26 SAMP.NO. 653 652 651 ION:1508 S 1923 E 1149
start stop duratic TIME :13:10:00 13:40:00 30 LOG :5128.30 5129.60 1.50 FDEPTH: 600 603 BDEPTH: 600 603 Towing dir: 180 Wire of Sorted: 25 Kg Total can  SPECIES  Trachyrinus scabrus Nezumia milleri Hoplostethus cadenati Merluccius capensis, female Alepocephalus sp. Etmopterus pusillus Aristeus varidens Deania profundorum Glyphus marsupialis Raja confundens Merluccius paradoxus, female Ophisurus serpens Yarella blackfordi Todarodes sagittatus Schedophilus huttoni Schedophilus huttoni Schedophilus huttoni Schedophilus huttoni Schedophilus huttoni Schedophilus huttoni Total  DATE:27/11/92 GEAI MYCTOPHIDAE Notacanthus sexspinis Heterocarpus grimaldii Total  DATE:27/11/92 GEAI START Stop duratic TIME :15:27:00 15:57:00 30 LOG :5142.00 5143.50 1.66 FDEPTH: 362 363 BDEPTH: 362 363 BDEPTH: 362 363 SDEPTH: 362 3	CATCH/HOUR  RTYPE: BT No:1  RTYPE: BT No:1  RATCH/HOUR  RATCH/HOUR	Long 3 8  kn*10 CH/HOUR: 3 4 OF TOT. C 37.41 11.51 8.63 8.03 7.59 6.01 5.97 5.43 2.81 2.27 1.26 0.58 0.58 0.59 0.14 0.01 100.02  PROJECT STATSITION:Lat Long 3 7  kn*10 CH/HCUR: 7	E 1123  333.64  SAMP.NO.  635  636  710N:1504  \$ 1826  E 1127	start stop durati: TIME :06:25:00 06:53:00 28 LOG :5236.40 5238.00 1.50 FDEPTH: 351 319 BDEPTH: 351 319 Towing dir: 360 Wire of the start of the sta	on (min) Purpose Area code GearCond Validity out:1000 m Spectch: 609.12  CATCH/HC Weight ni 927.43 183.21 136.29 20.79 6.86 6.64 6.43 6.32 4.29 2.64 2.25 0.94 0.75 0.17 0.17 0.17 0.09  1305.27  R TYPE: BT No:1 on (min) Purpose GearCond Validity out: 950 m Spectch: 212.14  CATCH/HC Weight ni 234.93 68.28 46.24	POSIT  code: 3 e : 6 . code: code: ed: 31 kn  CATCH/i  DUR % C  umbers 707 180 3152 180 174 11 272 6 58 17 32 2 6 58 17 32 9 17  PRR  POSIT: code: 3 e : 7 code: code: ed: 29 kn  Umbers 242 106  CATCH/i  DUR % C	*10  ROUR: 13:  *10  ROUR: 13:  OF TOT. C  71.05 14.04 10.44 1.59 0.53 0.51 0.49 0.48 0.33 0.20 0.17 0.07 0.06 0.01 0.01 0.01 0.01  99.99  DUJECT STAT. ION:Lat: Long  *10  HOUR: 4:  *10  HOUR: 4:  53.53 15.56 10.54	S 1926 E 1141
start stop duratic TIME :13:10:00 13:40:00 30 LOG :5128.30 5129.60 1.50 FDEPTH: 600 603 BDEPTH: 600 603 Towing dir: 180 Wire of the start of the sta	CATCH/HOUR  TYPE: BT No:1  CATCH/HOUR  100.1  101.1	Long 3 8  kn*10 CH/HOUR: 3  % OF TOT. C  37.41 11.51 8.63 8.03 7.59 6.01 1.2.27 1.26 0.53 0.36 0.29 0.14 0.01 100.02  PROJECT STAT SITION:Lat Long 3 7  kn*10 CH/HCUR: 7  % OF TOT. C  56.72 1.2.85 7.22 5.96 5.91 2.92 2.86	E 1123 333.64 SAMP.NO. 635 636 SIEZE E 1127 720.38 SAMP.NO. 638 637	start stop durati: TIME :06:25:00 06:53:00 28 LOG :5236.40 5238.00 1.50 FDEPTH: 351 319 BDEPTH: 351 319 Towing dir: 360 Wire of the start of the sta	on (min) Purpose Area code GearCond Validity out:1000 m Spectch: 609.12  CATCH/HC Weight n 1927.43 183.21 136.29 20.79 6.86 6.64 6.43 6.32 4.29 2.64 2.25 0.94 0.75 0.17 0.17 0.17 0.17 0.09 1305.27  R TYPE: BT No:1 on (min) Purpose Area code GearCond Validity out: 950 m Spectch: 212.14  CATCH/HC Weight nt 234.93 68.28	POSIT:  code: 3 e : 6 code: code: 6 code: code: 707 180 3152 180 3152 180 3152 180 174 111 272 6 6 2 26 58 17 32 9 17	*10  HOUR: 13:  *10  HOUR: 13:  *10  F TOT. C  71.05 14.04 10.53 0.51 0.49 0.48 0.33 0.20 0.17 0.06 0.01 0.01 0.01 99.99  DJECT STAT. ION: Lat : Long 1  *10  HOUR: 4:  53.53 15.56	S 1926 E 1141 05.26 SAMP.NO. 653 652 651 ION:1508 S 1923 E 1149
start stop duratic TIME :13:10:00 13:40:00 30 LOG :5128.30 5129.60 1.50 FDEPTH: 600 603 BDEPTH: 600 603 Towing dir: 180 Wire of Sorted: 25 Kg Total can  SPECIES  Trachyrinus scabrus Nezumia milleri Hoplostethus cadenati Merluccius capensis, female Alepocephalus sp. Etmopterus pusilius Aristeus varidens Deania profundorum Glyphus marsupialia Raja confundens Merluccius paradoxus, female Ophisurus serpens Yarella blackfordi Todarodes sagittatus Schedophilus huttoni Sche	CATCH/HOUR  TYPE: BT No:1  CATCH/HOUR  100  101  101  102  103  103  104  105  105  106  107  107  108  108  108  108  108  108	Long 3 8  kn*10 CH/ROUR: 3  % OF TOT. C  37.41 11.51 8.63 8.03 7.59 6.01 1.22 1.26 0.58 0.54 0.53 0.36 0.29 0.14 0.01 100.02  PROJECT STAT SITION:Lat Long 3 7  kn*10 CH/ROUR: 7  % OF TOT. C  56.72 1.285 5.96 5.91 2.92 2.86 2.30 0.86	E 1123  333.64  SAMP.NO.  635  636  710N:1504  \$ 1826  E 1127	start stop durati: TIME :06:25:00 06:53:00 28 LOG :5236.40 5238.00 1.50 FDEPTH: 351 319 BDEPTH: 351 319 Towing dir: 360 Wire of the start of the sta	on (min) Purpose Area code GearCond Validity out:1000 m Spectch: 609.12  CATCH/HC Weight 136.29 20.79 6.86 6.64 6.32 4.29 2.64 2.25 0.94 0.75 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17	POSIT  code: 3 e : 6 code: ed: 31 kn  CATCH/i  DUR & C  umbers 707 180 3152 180 174 11 272 6 6 2 2 268 17 32 9 17  PR( POSIT: code: ed: 29 kn  CATCH/i  DUR & C  umbers 242 106 2257 832 927 832 144	*10  HOUR: 13  *10  HOUR: 13  OF TOT. C  71.05 14.04 1.59 0.53 0.51 0.49 0.53 0.51 0.49 0.33 0.20 0.17 0.06 0.01 0.01 0.01 0.01  99.99  OJECT STAT. Long  *10  HOUR: 4: 53.53 15.56 10.54 9.83 4.04 2.26 1.08 0.96	S 1926 E 1141 05.26 SAMP.NO. 653 652 651 ION:1508 S 1923 E 1149
start stop duratic TIME :13:10:00 13:40:00 30 LOG :5128.30 5129.60 1.50 FDEPTH: 600 603 BDEPTH: 600 603 Towing dir: 180 Wire of the start of the sta	On (min) Purpose code: Area code: GearCond. code: Validity code: V	Long 3 8 kn*10 CH/HOUR: 3 4 OF TOT. C 37.41 11.51 8.63 8.03 7.59 6.01 5.97 5.43 2.81 2.27 1.26 0.58 0.54 0.53 0.36 0.29 0.14 0.10 100.02  PROJECT STATSITION:Lat Long 3 7 kn*10 CH/HCUR: 7 2.86 7 2.97 2.286 6.72 1.2.85 7.22 2.86 5.91 2.99 2.86 6.230	E 1123 333.64 SAMP.NO. 635 636 SIEZE E 1127 720.38 SAMP.NO. 638 637	start stop durati: TIME :06:25:00 06:53:00 28 LOG :5236.40 5238.00 1.50 FDEPTH: 351 319 BDEPTH: 351 319 Towing dir: 360 Wire: Sorted: 165 Kg Total car  SPECIES  Merluccius capensis, female Merluccius capensis, male Helicolenus dactylopterus Galeus polli Coelorinchus coelorinch. polli Todarodes sagittatus Nezumia milleri Lophius upsicephalus Schedophilus huttoni Ebinania costaecanarie Epigonus denticulatus Laemonema laureysi Chlorophthalmus atlanticus MYCTOPHIDAE Lycoteuthis diadema Solenocera africana  Total  DATE:28/11/92 GEAI START Stop durati: TIME :08:19:00 08:48:00 29 LOG :5249.00 5250.60 1.40 FDEPTH: 313 312 Towing dir: 360 Wire: Sorted: 142 Kg Total car  SPECIES  Merluccius capensis, female Merluccius capensis, male Helicolenus dactylopterus Galeus polli Chlorophthalmus atlanticus Dentex macrophthalmus Todarodes sagittatus Coelorinchus coelorinch. polli Trachurus capensis	on (min) Purpose Area cook GearCond Validity out:1000 m Spectch: 609.12  CATCH/HC Weight 136.29 20.79 6.86 6.64 6.43 6.32 4.29 2.64 2.25 0.94 0.75 0.17 0.17 0.17 0.17 0.19  1305.27  R TYPE: BT No:1 on (min) Purpose GearCond Validity out: 950 m Spectch: 212.14  CATCH/HC Weight nt 234.93 68.28 46.24 43.14 17.75 9.93 4.74 4.20 3.10 2.67	POSIT:  code: 3 e : 6 . code: ed: 31 kn  CATCH/i  DUR & C  umbers 707 180 3152 180 174 11 272 6 58 17 32 26 58 17 32 9 17  CATCH/i  DUR & C  umbers 242 106 2557 82 242 106 2557 832 1143 100 470 470	*10  HOUR: 13  *10  HOUR: 13  OF TOT. C  71.05 14.04 1.59 0.49 0.53 0.51 0.49 0.33 0.20 0.17 0.06 0.01 0.01 0.01 0.01  99.99  DJECT STAT: Long  *10  *10  *10  HOUR: 4:  *10  HOUR: 4:  15.56 10.54 9.83 4.04 2.26 1.08 0.71 0.66 0.71 0.61	S 1926 E 1141 05.26 SAMP.NO. 653 652 651 ION:1508 S 1923 E 1149
start stop duratic TIME :13:10:00 13:40:00 30 LOG :5128.30 5129.60 1.50 FDEPTH: 600 603 BDEPTH: 600 603 Towing dir: 180 Wire of the start of the sta	On (min) Purpose code: Area code: GearCond.code: Validity code: Va	Long 3 8  kn*10 CH/HOUR: 3 4 OF TOT. C 37.41 11.51 8.63 8.03 7.59 6.01 1.26 0.54 0.53 0.36 0.29 0.14 0.01 100.02  PROJECT STAT SITION:Lat Long 3 7 kn*10 CH/HCUR: 7 2.86 2.90 2.90 2.90 2.90 2.90 2.90 2.90 2.90	E 1123 333.64 SAMP.NO. 635 636 SIEZE E 1127 720.38 SAMP.NO. 638 637	start stop durati: TIME :06:25:00 06:53:00 28 LOG :5236.40 5238.00 1.50 FDEPTH: 351 319 BDEPTH: 351 319 Towing dir: 360 Wire of the start of the sta	on (min) Purpose of Area cook GearCond Validity out:1000 m Spectch: 609.12  CATCH/HC Weight n 927.43 183.21 136.29 20.79 6.86 6.84 6.32 4.29 2.64 2.25 0.94 0.75 0.17 0.17 0.09  1305.27  R TYPE: BT No:1 one of Area cook GearCond Validity out: 950 m Spectch: 212.14  CATCH/HC Weight nt 234.93 68.82 4.93 68.24 43.14 17.75 9.93 4.74 4.20 3.10 2.67 1.84 0.72 0.62	POSIT:  code: 3  code: 6  code: 6  code: 7  CATCH/i  DUR 1  CATCH/i  DUR 1  CATCH/i  DUR 1  CATCH/i  DUR 1  CATCH/i  CODE: 3  PRIME 2  CATCH/i  DUR 2  CATCH/i  DUR 3  CATCH/i  DUR 4  CATCH/i  DUR 5  CATCH/i  DUR 5  CATCH/i  DUR 6  CATCH/i  DUR 7  CATCH/i	*10  HOUR: 13:  *10  F TOT. C  71.05 14.04 11.59 0.51 0.49 1.59 0.48 0.33 0.20 0.17 0.07 0.06 0.01 0.01 0.01 0.01 0.01 0.01 0.01	S 1926 E 1141 05.26 SAMP.NO. 653 652 651 ION:1508 S 1923 E 1149
start stop duratic TIME :13:10:00 13:40:00 30 LOG :5128.30 5129.60 1.50 FDEPTH: 600 603 BDEPTH: 600 603 Towing dir: 180 Wire of Sorted: 25 Kg Total can  SPECIES  Trachyrinus scabrus Nezumia milleri Merluccius capensis, female Alepocephalus ap. Etmopterus pusillus Aristeus varidens Deania profundorum Glyphus marsupialis Raja confundens Merluccius paradoxus, female Ophisurus serpens Yarella blackfordi Todarodes sagittatus Schedophilus huttoni Total  DATE:27/11/92 GEAN MYCTOPHIDAE Notacanthus sexspinis Heterocarpus grimaldii Total  DATE:27/11/92 GEAN SPECIES  Merluccius capensis, female Centrophorus granulosus Merluccius capensis, female Gentrophorus granulosus Merluccius capensis, male Helicolenus dactylopterus Epigonus denticulatus Hoplostethus cadenati Todarodes sagittatus Merluccius paradoxus, female Nezumia milleri Galeus polli Laemonema laureysi Aristeus varidens Shrimps, small, non comm.	On (min) Purpose code: Area code: GearCond.code: Validity code: Va	Long 3 8  kn*10 CH/HOUR: 3 4 OF TOT. C 37.41 11.51 8.63 8.03 7.59 6.01 1.2.67 1.26 0.58 0.54 0.53 0.36 0.29 0.14 0.01 100.02  PROJECT STAT SITION:Lat Long 3 7  kn*10 CH/HCUR: 7 2.86 2.30 0.86 0.75 2.92 2.86 2.30 0.86 0.75 0.58 0.75 0.58 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75	E 1123 333.64 SAMP.NO. 635 636 SIEZE E 1127 720.38 SAMP.NO. 638 637	start stop durati: TIME :06:25:00 06:53:00 28 LOG :5236.40 5238.00 1.50 FDEPTH: 351 319 BDEPTH: 351 319 Towing dir: 360 Wire of the start of the sta	on (min) Purpose in Area cook GearCond Validity out:1000 m Spect tch: 609.12  CATCH/HC Weight in 927.43 183.21 136.29 20.79 6.86 6.84 6.32 4.29 2.64 2.25 0.94 0.75 0.17 0.17 0.17 0.09  1305.27  R TYPE: BT No:1 on (min) Purpose cook GearCond Validity out: 950 m Spect CATCH/HC Weight in Spect CATC	POSIT:  code: 3 e	*10  HOUR: 13:  *10  HOUR: 13:  *10  F TOT. C  71.05 14.04 10.53 0.51 0.49 0.48 0.33 0.20 0.17 0.06 0.01 0.01 0.01 0.01  99.99  DJECT STAT. ION: Lat Long  *10  HOUR: 4:  *10  HOUR: 4:  53.53 15.56 10.54 9.83 4.04 2.26 1.08 0.96 0.71 0.61 0.42 0.16 0.14 0.10 0.04	S 1926 E 1141 05.26 SAMP.NO. 653 652 651 ION:1508 S 1923 E 1149
start stop duratic TIME :13:10:00 13:40:00 30 LOG :5128.30 5129.60 1.50 FDEPTH: 600 603 BDEPTH: 600 603 Towing dir: 180 Wire of the start of the sta	Numbers   Numbers	Long 3 8  kn*10  CH/HOUR: 3 4 OF TOT. C  37.41 11.51 8.63 8.03 7.59 6.01 5.97 5.43 2.47 1.26 0.58 0.36 0.29 0.14 0.01  100.02  PROJECT STAT SITION: Lat Long 3 7  kn*10  CH/HCUR: 7  2.85 7.22 2.95 96 2.30 0.86 0.75 91 2.286 2.30 0.86 0.75 0.58 0.36 0.36 0.75 0.91 2.85 0.70 0.86 0.75 0.91 2.92 2.86 2.30 0.86 0.75 0.58 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.36	E 1123 333.64 SAMP.NO. 635 636 SIEZE E 1127 720.38 SAMP.NO. 638 637	start stop durati: TIME :06:25:00 06:53:00 28 LOG :5236.40 5238.00 1.50 FDEPTH: 351 319 BDEPTH: 351 319 Towing dir: 360 Wire of the start of the sta	on (min) Purpose in Area cook GearCond Validity	POSIT:  code: 3  code: 6  code: 6  code: 7  CATCH/i  DUR 1  CATCH/i  DUR 1  CATCH/i  DUR 1  CATCH/i  DUR 1  CATCH/i  CODE: 3  PRIME 2  CATCH/i  DUR 2  CATCH/i  DUR 3  CATCH/i  DUR 4  CATCH/i  DUR 5  CATCH/i  DUR 5  CATCH/i  DUR 6  CATCH/i  DUR 7  CATCH/i	*10  HOUR: 13  *10  HOUR: 13  OF TOT. C  71.05 14.04 1.59 0.48 0.33 0.51 0.49 0.48 0.33 0.20 0.17 0.06 0.01 0.01 0.01 0.01  99.99  DJECT STAT ION:Lat Long  *10  HOUR: 4:  *10  HOUR: 4:  10  *10  *10  *10  *10  *10  *10  *10	S 1926 E 1141 05.26 SAMP.NO. 653 652 651 ION:1508 S 1923 E 1149

						PROJECT ST	ATIC	N:1509
DATE:	28/11/92		GEA:	R TYPE:	BT No:1	POSITION:Lat	S	1921
	start		durati:			Lone	ı E	1157
TIME	:10:12:00	10:40:00	28	(min)	Purpose cod		_	
LOG	:5261.50				Area code			
FDEPT	н: 283	282			GearCond.co	de:		
BDEPT	H: 283	282			Validity co			

BDEPTH: 283 282 GearCond.code: BDEPTH: 283 282 Validity code: Towing dir: 350 Wire out: 900 m Speed: 27 kn\*10

Sorted: 81 Kg Total catch: 160.88 CATCH/HOUR: 344.74 Sorted: 176 Kg Total catch: 510.32 CATCH/HOUR: 1020.64

SPECIES	CATCH	CATCH/HOUR % OF TOT. C		
	weight	numbers		
Pterothrissus belloci	135.00	694	39.16	
Helicolenus dactylopterus	59.40	2409	17.23	
Merluccius capensis, female	41.57	94	12.06	657
Merluccius capensis, male	39.43	111	11.44	656
Trachurus capensis	31.71	124	9.20	658
Dentex macrophthalmus	21.64	94	6.28	659
Solenocera africana	3.47	707	1.01	
Neoharriotta pinnata	3.21	4	0.93	
Krill	2.57	•	0.75	
Lophius upsicephalus	2.10	13	0.61	660
Galeus polli	1.67	51	0.48	
Chlorophthalmus atlanticus	1.29	116	0.37	
PORTUNIDAE	1.29	26	0.37	
Coelorinchus coelorinch, polli	0.26	26	0.08	
Sufflogobius bibarbatus	0.13	13	0.04	
Total	344.74		100.01	

								JECT STA	TIC	N:151
DATE:	28/11/92		GE A	AR TYPE:	BT	No:1	POSITIO	ON:Lat	S	1818
	start	stop						Long	E	1206
TIME	:12:03:00	12:33:00	30	(min)	Purp	ose co	de: 3		_	
LOG	:5274.20	5275.50	1.75			code				
FDEPTH	1: 230	233				Cond.c				
BDEPTH	1: 230	233			Vali	dity co	ode:			
	Towing o	lir: 175	Wire	out: 80	0 m	Speed	: 35 kn*	10		

Sorted: 83 Kg Total catch: 885.59 CATCH/HOUR: 1771.18 Sorted: 183 Kg Total catch: 240.49 CATCH/HOUR: 450.92

SPECIES	CATCH	/HOUR %	OF TOT. C	SAMP.NO.
Trachurus capensis	Weight 1320.00	numbers 9878	74.53	664
Merluccius capensis, female	220.00	1056	12.42	663
Merluccius capensis, male Dentex macrophthalmus	198.00 23.76	1078 110	11.18	662
Krill	4.00		0.23	
Merluccius capensis, female Todarodes sagittatus	2.80 2.62	2 2	0.16 0.15	661
Total	1771.18		100.01	

								PROJ	ECT STA	TIO	N:1511
DATE: 2	8/11/92			R TYPE:	BT	No:1	PO	SITIO	N:Lat	Ś	1926
	start	stop (	duratio	on.					Long	E	1205
TIME	:13:28:00	13:58:00	30	(min)	Pur	ose c	ode:	3			
LOG	:5281.90	5283.20	1.61			code					
FDEPTH	1: 254	251				Cond.					
BDEPTH	l: 254	251				dity					
	Towing di	ir: 160	Wine					kn#1	n		

Sorted: 50 Kg Total catch: 49.77 CATCH/HOUR: 99.54

SPECIES	CATCH	/HOUR %	OF TOT. C	SAMP.NO.
	weight	numbers		
Trachurus capensis	51.00	304	51.24	668
Merluccius capensis, male	16.60	70	16.68	666
Merluccius capensis, female	16.00	50	16.07	667
Pterothrissus belloci	7.24	46	7.27	007
Merluccius capensis, female	3.38	2	3.40	665
Sufflogobius bibarbatus	2.48	276	2.49	003
PORTUNIDAE	1.06	56	1.06	
Dentex macrophthalmus	0.92	4	0.92	
Austroglossus microlepis	0.86	6	0.86	
Total	99.54		99.99	

DATE: 2						E: BT	No:1	POS	SITION	N:Lat	s	1938
		start		durat.						Long	E	1202
TIME	:15	:24:00	15:54:00	30	(min)	Purp	ose cod	e:	3			
LOG	:52	94.70	5296.00	1.70			code					
FDEPTI	1:	293	296				Cond. co					
BDEPT	1:	293	296				dity co					
	To	wing d	ir: 175	Wire	out:	950 m	Speed:	34	kn*10	0		

Sorted: 159 Kg Total catcl	1: 241.51	CATCH/HOUR:	483.02
SPECIES	CATCH/HO	UR % OF TOT.	C SAMP.NO.
	weight nu	mbers	
Merluccius capensis, female	285.30	276 59.07	670
Merluccius capensis, male	84.00	118 17.39	669
Trachurus capensis	30.00	142 6.21	671
Helicolenus dactylopterus	21.90	282 4.53	· -
Pterothrissus belloci	16.66	76 3.45	
Neoharriotta pinnata	16.48	16 3.41	
Dentex macrophthalmus	10.62	36 2.20	
Solenocera africana	3.66	0.76	
Chlorophthalmus atlanticus	3.58	160 0.74	
Coelorinchus coelorinch, polli	2.56	150 0.53	
Austroglossus microlepis	2.46	6 0.51	
Lophius upsicephalus	2.24	10 0.46	
Hyperoglyphe moselii	1.44	2 0.30	
Todarodes sagittatus	1.28	4 0.26	
Sufflogobius bibarbatus	0.66	142 0.14	
Galeus polli	0.18	16 0.04	
Total	483.02	100.00	

		PROJECT STATION:1513	3
DATE: 28/11/92		OSITION:Lat S 1942	
	duration	Long E 1155	
TIME :16:58:00 17:28:00		3	
LOG :5303.90 5305.20	1.70 Area code	: 6	
FDEPTH: 333 335	GearCond.code:	1	
BDEPTH: 333 335	Validity code:	•	
Towing dir: 170	Wire out:1050 m Speed: 33	3 kn*10	

SPECIES	CATCH	/HOUR %	OF TOT. C	SAMP.NO.
	weight	numbers		
Merluccius capensis, female	547.20	462	53.61	675
Merluccius capensis, male	247.20	216	24.22	674
Helicolenus dactylopterus	148.80	5484	14.58	
Galeus polli	47.40	698	4.64	
Schedophilus huttoni	14.20	6	1.39	
Todarodes sagittatus	4.32	12	0.42	
Lophius upsicephalus	2.82	4	0.28	673
Solenocera africana	2.70	624	0.26	0,5
Chlorophthalmus atlanticus	2.22	66	0.22	
Hoplostethus cadenati	1.26	36	0.12	
Nezumia milleri	1.08	42	0.11	
Coelorinchus coelorinch, polli	1.02	24	0.10	
Laemonema laureysi	0.24	- 6	0.02	
Synagrops microlepis	0.18	ž	0.02	
PORTUNIDAE	0.00	6	0.02	
Total	1020.64		99.99	

										CT STA	TIC	N:151
DATE: 2	8/11/92		GE A	AR TYPE:	BT :	No:1		PQ.	KOITIR	l:Lat	s	1946
	start		durat:	Lon						Long	E	1147
TIME	:18:50:0	19:22:00	32	(min)	Purp	ose	code	:	3			
LOG	:5315.80	5317.40	1.80		Area							
FDEPTH	: 378	372			Gear							
BDEPTH	: 378	372			Vali							
	Towing o	lir: 160	Wire	out:105						)		

SPECIES	CATCH	/HOUR %	OF TOT. C	SAMP.NO.
	we1ght	numbers		
Merluccius capensis, female	249.00	203	55.22	677
Helicolenus dactylopterus	120.00	1266	26.61	
Merluccius capensis, male	23.81	23	5.28	676
Neoharriotta pinnata	16.33	13	3.62	
Merluccius paradoxus, female	16.05	32	3.56	678
Galeus polli	6.24	62	1.38	
Todarodes sagittatus	5.08	11	1.13	
Coelorinchus coelorinch, polli	3.84	96	0.85	
Nezumia milleri	2.46	135	0.55	
Epigonus denticulatus	1.93	75	0.43	
Raja confundens	1.28	2	0.28	
Laemonema laureysi	1.22	15	0.27	
MYCTOPHIDAE	1.11		0.25	
Yarella blackfordi	0.77		0.17	
Trachyrinus scabrus	0.58	6	0.13	
Hoplostethus cadenati	0.28	8	0.06	
Chlorophthalmus atlanticus	0.24	8	0.05	
Aristeus varidens	0.23	21	0.05	
Ophisurus serpens	0.21	2	0.05	
Solenocera africana	0.15	24	0.03	
Lycoteuthis diadema	0.11	2	0.02	
Total	450.92		99.99	

DATE: 29/11/92	GEAR TYPE:	BT NO:1	PROJECT ST		:151: 2008
start	stop duration		Long		1238
TIME :06:22:00	06:42:00 20 (min)	Purpose code:		_	
LOG :5371.00	5372.00 1.10		: 4		
FDEPTH: 132	136	GearCond.code	::		
BDEPTH: 132	136	Validity code	:		
Towing di		00 m Speed: 3			
Sorted: 63 Kg	Total catch:	212.13 CA	TCH/HOUR:	636.	39

SPECIES	CATCH	/HOUR	OF TOT. C	SAMP.NO.
	weight	numbers		
Merluccius capensis, female	232.80	1692	36.58	683
Trachurus capensis	117.60	828	18.48	684
Merluccius capensis, male	112.80	864	17.72	682
Chelidonichthys capensis	49.92	108	7.84	002
Dentex macrophthalmus	48.84	264	7.67	685
Merluccius capensis, female	17.43	15	2.74	681
Sufflogobius bibarbatus	12.48	1956	1.96	001
Pterothrissus belloci	11.04	204	1.73	
Lophius upsicephalus	9.09	33	1.43	679
Austroglossus microlepis	6.06	2.4	0.95	0.,
Synagrops microlepis	5.52	960	0.87	
Chatrabus melanurus	4.92	12	0.77	
Raja miraletus	2.52	3	0.40	
Merluccius capensis, male	1.98	3	0.31	680
Lepidopus caudatus	1.56	36	0.25	660
Raja confundens	1.23	3	0.19	
Todaropsis eblanae	0.60	12	0.09	
Total	636.39		99.98	

DATE: 29	/11/	92		GE A	AR TYP	E: BT	No:1	PO	SITION	CT STA	1110	2012
		art		durat	lon					Long	Ē	1230
TIME :	07:5	8:00	08:16:00	18	(min)	Purp	ose c	ode:	3		-	
LOG :	5382	2.20	5383.10	1.00				:				
FDEPTH:		208	205			Gear	Cond.	code:	•			
BDEPTH:		208	205				dity					
	Tow1	ng di	lr: 330	Wire	out:	800 m	Speed	d: 32	kn*10	)		

SPECIES	CATCH	/HOUR %	OF TOT. C	SAMP.NO.
Trachurus capensis Merluccius capensis	weight 6537.67 129.00	numbers 42887 780	98.07 1.93	687 686
Total	6666.67		100.00	

DATE:29/11/92 GEAR TYPE: BT No:1 PROJECT STATION:1517

Start stop duration Long E 1223

TIME :09:26:00 09:56:00 30 (min) Purpose code: 3

LOG :5391.40 5392.80 1.60 Area code : 4

FDEPTH: 248 247 GearCond.code:

BDEPTH: 248 247 Validity code:

Towing dir: 330 Wire out: 850 m Speed: 32 kn\*10

Sorted: 94 Kg Total catch: 125.36 CATCH/HOUR: 250.72

SPECIES	CATCH/F	OUR %	OF TOT. C	SAMP.NO.
	weight .	numbers		
Merluccius capensis, male	73.64	264	29.37	690
Trachurus capensis	62.44	386	24.90	692
Merluccius capensis, female	33.60	126	13.40	691
Dentex macrophthalmus	29.68	124	11.84	693
Merluccius capensis, female	23.00	16	9.17	689
Sufflogobius bibarbatus	19.24	2830	7.67	
Merluccius capensis, male	8.40	8	3.35	688
Pterothrissus belloci	0.42	2	0.17	
Chlorophthalmus atlanticus	0.30	12	0.12	
Total	250.72		99.99	

Sorted: 154 Kg Total catch: 154.17 CATCH/HOUR: 330.36

SPECIES	CATCH	/HOUR %	OF TOT. C	SAMP.NO.
	weight	numbers		
Trachurus capensis	117.86	396	35.68	696
Merluccius capensis, female	111.43	165	33.73	695
Merluccius capensis, male	53.57	126	16.22	694
Pterothrissus belloci	22.29	111	6.75	
Nemichthys scolopacea	7.71	4	2.33	
Chlorophthalmus punctatus	7.03	246	2.13	
Solenocera africana	5.04	945	1.53	
Dentex macrophthalmus	2.89	13	0.87	
Sufflogobius bibarbatus	2.14	604	0.65	
Lophius upsicephalus	0.26	2	0.08	697
Galeus polli	0.15	9	0.05	
Total	330.37		100.02	

Sorted: 177 Kg Total catch: 796.37 CATCH/HOUR: 1592.74

CATCH	/HOUR \$	OF TOT. C	SAMP.NO.
weight	numbers		
1112.40	1072	69.84	699
315.00	414	19.78	698
67.50	172		700
50.82	14		
12.34	64		
9.18	216		
7.84	306		
3.78	10		
3.16	136		
2.98	- 6		
2.70	_		
2.60	2		701
1.80	_		
0.64	18	0.04	
1592.74		100.00	
	weight 1112.40 315.00 67.50 50.82 12.34 9.18 7.84 3.78 3.16 2.98 2.70 2.60 1.80 0.64	weight numbers 1112.40 1072 315.00 414 67.50 172 50.82 14 12.34 64 9.18 216 7.84 306 3.78 10 3.16 136 2.98 6 2.70 2.60 2 1.80 0.64 18	weight numbers 1112.40 1072 69.84 315.00 414 19.78 67.50 172 4.24 50.82 14 3.19 12.34 64 0.77 9.18 216 0.58 7.84 306 0.49 3.78 10 0.24 3.16 136 0.20 2.98 6 0.19 2.70 2.60 2 0.16 1.80 0.11 0.64 18 0.04

Sorted: 166 Kg Total catch: 266.36 CATCH/HOUR: 532.72

SPECIES	CATCH	/HOUR %	OF TOT. C	SAMP.NO.
	weight	numbers		
Trachurus capensis	132.00	684	24.78	707
Pterothrissus belloci	114.00	660	21.40	
Merluccius capensis, female	103.40	76	19.41	703
Merluccius capensis, male	72.40	252	13.59	705
Merluccius capensis, female	54.40	196	10.21	706
Merluccius capensis, male	27.40	30	5.14	702
Sufflogobius bibarbatus	8.00	1186	1.50	
Chlorophthalmus atlanticus	6.80	280	1.28	
Krill	6.00		1.13	
Dentex macrophthalmus	3.60	12	0.68	
Solenocera africana	2.04	408	0.38	
Austroglossus microlepis	1.56	4	0.29	704
Galeus polli	0.80	44	0.15	
Coelorinchus coelorinch, polli	0.28	4	0.05	
Synagrops microlepis	0.04	4	0.01	
Total	532.72		100.00	

								PROJE	CT ST	ATIC	N:1521
DATE: 29/1	1/92		GEA	R TYPE	: BT	No:1	PO	SITION	:Lat	S	2026
		stop d							Long	E	1246
TIME :17	7:01:00	17:31:00	30	(min)	Purp	ose cod	e:	3	•		
LOG : 54	140.50	5442.10	1.60		Area	code	:	4			
FDEPTH:	148	148			Gear	Cond.co	de:				
BDEPTH:	148	148			Vali	dity co	de:				
To	wing di	r: 340	Wire	out: 6	00 m	Speed:	32	kn*10	)		

Total catch: 166.26 CATCH/HOUR: 332.52

Sorted: 38 Kg

SPECIES	CATCH	/HOUR %	OF TOT, C	SAMP.NO.
	weight	numbers		
Merluccius capensis, male	178.00	1590	53.53	712
Merluccius capensis, female	114.00	840	34.28	713
Dentex macrophthalmus	9.00	40	2.71	
Merluccius capensis, female	8.52	14	2.56	709
Trachurus capensis	8.10	60	2.44	
Chelidonichthys capensis	6.80	20	2.04	
Lepidopus caudatus	1.50	20	0.45	
Todaropsis eblanae	1.20	40	0.36	
Raja straeleni	1.12	2	0.34	
Merluccius capensis, male	1.02	2	0.31	708
Sufflogobius bibarbatus	1.00	480	0.30	
Lophius upsicephalus	0.84	4	0.25	711
Squalus megalops	0.76	2	0.23	
Synagrops microlepis	0.40	70	0.12	
Austroglossus microlepis	0.26	2	0.08	710
Total	332.52		100.00	

									PRO	JECT STA	TIC	N:1522
DATE: 2	9/11/92	2		GE A	R TYP	E: BT	No:1	L P	OSIT	ON:Lat	s	2025
		rt s		durati						Long	E	1253
TIME	:18:57:	:00 19	:27:00	30	(min)	Purp	ose	code:	3	•		
LOG	:5454.6	50 54	56.00	1.70		Area	COC	ie	: 1			
FDEPTH	: 11	6	114			Gear	Cond	i.code	:			
BDEPTH	: 11	.6	114			Vali	dity	code	:			
	Towing	dir:	350	Wire	out:	450 m	Spe	ed: 3	3 kn	10		

Sorted: 59 Kg Total catch: 1773.90 CATCH/HOUR: 3547.80

SPECIES	CATCH	/HOUR %	OF TOT. C	SAMP.NO.
	weight	numbers		
Trachurus capensis	1704.00	12610	48.03	716
Merluccius capensis, male	1104.00	10440	31.12	71.4
Merluccius capensis, female	690.00	5460	19.45	715
Chelidonichthys capensis	22.80	60	0.64	725
Pterothrissus belloci	18.00	120	0.51	
Todaropsis eblanae	4.80	180	0.14	
Sufflogobius bibarbatus	4.20	1320	0.12	
Total	3547.80		100.01	

## Annex III Instruments and fishing gear used

#### **ACOUSTIC INSTRUMENTS**

A SIMRAD scientific echo sounder, EK 500/38kHz, was used during the survey for estimation of fish density.

Based on a calibration experiment using a standard copper sphere in Baia dos Tigres on 26th November 1991, the following settings were used:

Absorption Coeff.	10 dB/km
Pulse length	Medium
Bandwidth	Wide
Max. Power	2 000 W
Angle sensitivity	21.9
2-way Beam Angle	-21.0 dB
Sv Transd. Gain	28.0 dB
Ts Transd. Gain	28.0 dB
3 dB Beamwidth	6.9°
Along-ship Offset	0°
Athwart-ship	0°

#### **HYDROGRAPHY**

Temperature, salinity and oxygen were sampled at standard depths with Nansen bottles. Oxygen was measured with the Winkler method and salinity determined with an inductive salinometer.

#### FISHING GEAR

Bottom trawl: High opening shrimp and fish trawl with net headline 31m (floatline), foot-rope 47m, gear with 12 cm diameter roller disks, 40 m sweeps, estimated headline height 6m and distance between wings during towing 18-20m.

Pelagic trawl: Swedish type mid-water trawl with a vertical opening of 20-25m.

Cod-ends of trawls with fine meshed inner lining.

