

## 2010 BCC SURVEY NO. 1

### TRANSBOUNDARY SURVEY BETWEEN NAMIBIA AND SOUTH AFRICA WITH FOCUS ON THE SHARED STOCKS OF DEEP WATER HAKE

Cruise report No 1/2010

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by

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## Table of contents

<b>1</b>	<b>Introduction</b>	<b>1</b>
<b>2</b>	<b>Materials and methods</b>	<b>3</b>
2.1	Registration of weather conditions	3
2.2	Hydrography	3
2.3	Current measurements	4
2.4	Acoustic measurements	4
2.4.1	Acoustic equipment	4
2.4.2	Classification	4
2.5	Trawl sampling procedures	5
2.5.1	Handling the catch	6
2.5.2	Biological samples	6
<b>3</b>	<b>Narrative</b>	<b>7</b>
<b>4</b>	<b>Results</b>	<b>10</b>
4.1	Biology	10
<b>5</b>	<b>Considerations of the survey results, <i>M. paradoxus</i></b>	<b>24</b>
Annex 1	Records of fishing stations	
Annex 2	Instruments and fishing gear	
Annex 3	Depth strata in MN <sup>2</sup> by latitude in Namibia and South Africa	

## 1 Introduction

One of the key areas of the BCLME focus has been the monitoring/assessment of major transboundary fish resources in the BCLME region to enable sustainable management of these resources. The biological and ecological dynamics of deepwater hake have come under spotlight in stock assessment of these resources. The BCLME programme has therefore been involved in supporting appropriate research that could contribute to improved conservation and management efforts of this transboundary fish resource. This led in 2003 to the first coordinated survey of the hake resources in the West Coast of South Africa using similar gear and methods as for the Namibian trawl surveys running since 1990. This enabled joint analysis of fish distribution and abundance with a special focus on the shared stock of deep water hake, *M. paradoxus*. This survey was repeated in 2005 under BCLME. During the bridging phase of the BENEFIT project (2006-2007) the BENEFIT resources working group emphasised the long term needs for the management of the transboundary stocks and recommended to continue the joint surveys with Namibia early in the year as a high priority for the years 2006 and 2007. Both BENEFIT and BCLME came to close at the end 2007 while the following Benguela Current Commission did not become functional before August 2008. In the interim period an interim steering committee decided it was vital to uphold the time series on the shared stocks of hake and requested the FAO to assist through the EAF-Nansen Programme with a survey in the beginning of 2008. The same request was repeated in in late 2008 for a survey in 2009. In a Regional Steering Committee meeting for the EAF-Nansen project in the BCC held in Windhoek in October 2009 the representatives of BCC, Namibia and South-Africa emphasised that it was a priority for the BCC to continue the timeseries. The time series now thus comprise the years 2003 and 2005 - 2010.

In a meeting at MCM in December 2009, an idea was raised that one should include the south coast in the regional survey in order to better assess the fraction and condition of the deep water hake stock beyond Cape Agulhas. The proposal received the approval of BCC and therefore it was decided to extend the survey with 21 days in order to cover the south coast in a continuous survey, and to forego a planned survey on spawning activity, originally scheduled for later in the year.

Specific objectives of this survey are:

1. To plan and conduct a transboundary survey from Port Alfred to Orange River to produce distribution maps and abundance estimates of the two species of hake to be later merged with similar data from a co-occurring Namibian national demersal survey, to enable complete mapping and assessment of shared stocks, thus providing a measure of the degree of sharing of the stocks at the time of the survey.
2. To collect data on the maturity stages of the hakes to check for possible spawning activity.
3. To collect other relevant data to better understand the environment impact on the distribution of hakes, and the fish community structure in the distribution areas of the hake.

## 2 Materials and methods

### 2.1 Registration of weather conditions

The underway weather data aboard Dr. Fridtjof Nansen are logged with the Aanderaa Weather Station unit fitted with the following sensors:

Sensor type	Measurement units
Air temperature	Degrees °C
Wind speed	M/s
Solar radiation	W/m <sup>2</sup>
Wind direction	Degrees re. the magnetic N. Pole
Sea surface temperature	Degrees °C

All sensors but Sea surface temperature (SST) are mounted on a mast positioned midships, at about 20 meters above the sea level. The SST sensor is located at the intake of the water for cooling the engine and its readings are representative to a water layer at about 5 meters below the sea level.

The weather station data were logged continuously throughout the survey. The results presented in this report are based on a standard output from the logging system comprising one nautical mile averages along the ship's track.

### 2.2 Hydrography

The data on temperature salinity and oxygen were collected with a CTD *Seabird 9 plus* probe between the surface and 10 meters off the bottom. CTDs were made at each trawl station. In addition, water bottle samples for oxygen and salinity calibrations were taken at most CTD stations.

The salinity samples were analysed with the Guildline Portasal salinometer unit. The laboratory conditions onboard are suitable to detect deviations between the CTD and *in situ* samples at a level of 0.005 of salinity units. Since no deviations reaching or

exceeding this range were detected, the salinity values based on the factory calibration of the conductivity sensor are used throughout this report.

The samples for dissolved oxygen were titrated within 12 hours of sample collection, using the standard Winkler method.

### 2.3 Current measurements.

Current measurements were carried out with vessel-mounted acoustic Doppler current profiler (ADCP) by RD Instruments, which operated 150 kHz in broad-band mode with 5 m vertical cells. Currents were measured from a depth of 25 m down to about 30 meters above the bottom. Only the bottom-tracked data were used in the data analysis.

### 2.4 Acoustic measurements

#### 2.4.1 Acoustic equipment

The acoustic recordings were conducted using Simrad EK 500 echosounder coupled to a keel-mounted transducer of 38 kHz. Acoustic raw-data was logged on the Sun-Unix based Bergen Echo Integrator (BEI) version 2000. The technical specifications and operational settings of the echosounders used during the survey are given in Annex 2 together with the results from the last calibration of the system. The acoustic data were scrutinized using the post-processing module of the LSSS software, developed by IMR.

#### 2.4.2 Classification

Scatterers were displayed at 38 kHz, standardized to 5 nautical miles (NM) echograms with 1,000 pings (horizontal) by 500 bins (vertical). The mean 5 NM area backscattering coefficients  $s_A$  ( $m^2/NM^2$ ) was allocated to a predefined set of species or species groups on the basis established echogram features. When concentrations of juvenile pelagic hake were encountered the  $s_A$ -values were stored with a 1 NM resolution.

Acoustic groups used were: a) Juvenile pelagic hake < 17 cm, b) older hake, usually demersal, c) horse mackerel, d) Pelagic group1 (pilchard, anchovies, red eye), e) Pelagic group 2 (pelagic fish not of Pelagic 1), f) demersal fish, not hake, g) mesopelagic fish, h) plankton. The classification was based on the characteristics of the echo traces, experience accumulated from previous similar surveys in Namibia since 1990 and in South Africa since 2000, supported when possible with results from nearby bottom trawl stations.

The results from the acoustic system are considered as a pilot study with the main aim of delineating the limits of distribution of juvenile pelagic hake and some information on relative densities. The figures will not be converted to biomass, as the target strength is uncertain and as the classification scheme and methods are too coarse for such a purpose. Adult hake were very rarely observed in the acoustic channel during daytime, while it showed up frequently above bottom at nighttime.

## 2.5 Trawl sampling procedures

The standard bottom trawl of Dr. Fridtjof Nansen, a Gisund Super shrimp cum fish trawl, was used in the survey.. A description of the trawl and gear is given in Annex 2. Dr. Fridtjof Nansen use a 20 m strapping on the warps 105 m in front of the doors to keep the door and wingspread constant at 50 m and 21 m respective, independent of trawl depth.

A standard haul was 30 minutes at 3 knots, sometimes reduced to 20 minutes in areas of expected high densities. The exact time for start and stop of the trawl operation was determined by SCANMAR sensors. The output from the SCANMAR system was also recorded on files to facilitate later analysis of bottom contact and door-spread if necessary.

For conversion of catch rates (kg/hour) to fish densities (t/NM<sup>2</sup>), the effective fishing area was considered as the product of the wing spread and the haul length, or distance over the bottom, based on GPS readings. In the survey a nominal distance of 21.5 m was applied to facilitate analysis with previous surveys. The area swept for each haul was thus 21.5 m times the distance trawled, converted to NM<sup>2</sup>. The catchability coefficient (q), i.e. the fraction of the fish encountered by the trawl that was actually caught, was conservatively assumed equal to 0.8. This allows comparison with

previous results when a wing spread of 18.5 m and a catchability coefficient of 1.0 was applied.

#### *2.5.1 Handling the catch*

In most cases, the whole trawl catch was sorted and all species were recorded with their weight and numbers. For especially big catches the abundant species were sub-sampled while the other fish were sorted out. Length measurements (total length) were taken for target species. The length of each fish was recorded to the nearest 1 cm below. The mantle length of squid was measured to the nearest 1 cm below. All samples of small hake was checked for the species identity by vertebrae count (usually 3-5 fish were examined).

An electronic measuring board was used for length measurement, main sample weights were recorded by Scanvaegt electronic balances and a Marel weight was used for single fish and small species measurements.

#### *2.5.2 Biological samples*

Biological samples were collected for the two hake species in special areas. The following information were collected: Sex, maturity stage, gonad weight and stomach content. The maturity scale used was the one adopted at Marine and Coastal Management, Cape Town:

- 1: immature,
- 2: active,
- 3: ripe,
- 4: ripe and running,
- 5: spent and
- 6: inactive



### 3 Narrative

The scientific staff consisted of:

From MCM, South Africa:

Marek Lipinski (teamleader until 12.02).  
Sharon du Plessis (onboard from 07.01, teamleader from 12.02).  
Mbongeni Tyesi (07.01-02.02).  
Pierre Joubert (12.02-28.02).

Interns, South Africa:

Jessica Escobar, Hazel Dickens and Sean Weltz (07.01-28.02).  
Melanie Smith, Danielle Boyd, Dale Wilson and Dylan Cooper (07.01-02.02),  
Kerry Hadfield (02.02-12.02).  
Bernadine Everett (02.02-28.02).

From NatMIRC, Namibia:

Claudia Kamdwombe (12.02-28.02).

From Namibia:

Joseph M. Lubanda and Oswald S. Mughongora (02.02-28.02).

From IMR, Norway:

Oddgeir Alvheim (cruise leader 7.01-2.02 and 12-28.02), Tore Strømme (cruise leader 2.02-12.02), Magne Olsen (from 12.02), Tore Mørk (instrument chief), Terje Svoren (until 2.02) and Ole Sverre Fossheim (from 2.02).

The cruise tracks with fishing and hydrographical stations are shown in Figure 3.1a-b.

The vessel departed Cape Town in the evening of 7 January, steaming south to Cape Agulhas where trawl sampling started next morning. Sampling proceeded eastwards in regular transects about 60 nm apart. The eastern border off Port Alfred was reached on 20 January and on the return westwards new transects were laid out intermittently with the previous ones leading to a 30nm transect distance on the south coast. The southcoast between Cape Agulhas and Port Alfred was completed on 27 January, starting the regular survey of the westcoast the following day. Sampling was interrupted at the transect off False Bay, when the vessel sailed to Cape Town for crew change on 31 January. Vessel resumed field work on 3 February and the area north to Doring Bay was covered, followed by a short call on Cape Town for exchange of scientific crew on 12-13 February. The work proceeded north of Doring Bay until the border with Namibia where the last trawl station was completed on 24 February whereafter the vessel steamed north with arrival in Walvis Bay on 26 February.

The weather conditions were for long periods unfavourable with strong winds and heavy swell, especially on the south coast, but the sampling work could still be carried out with caution. Sampling had to be interrupted only one day, on 11 February due to bad weather.

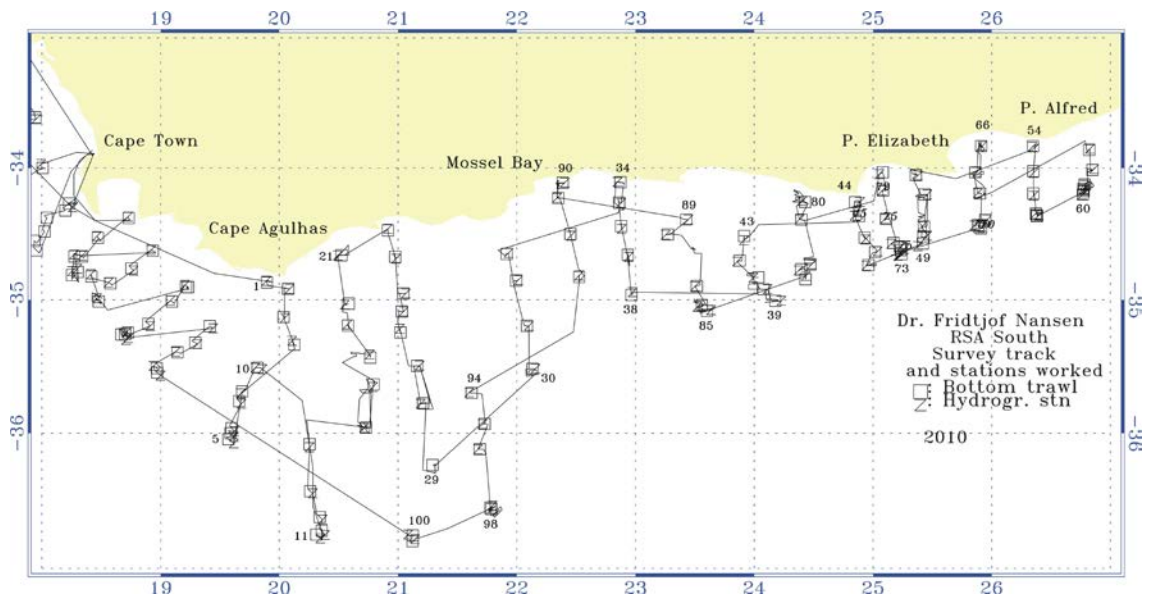


Figure 3.1a Course tracks with hydrographic and trawl stations Cape Agulhas-Port Alfred.

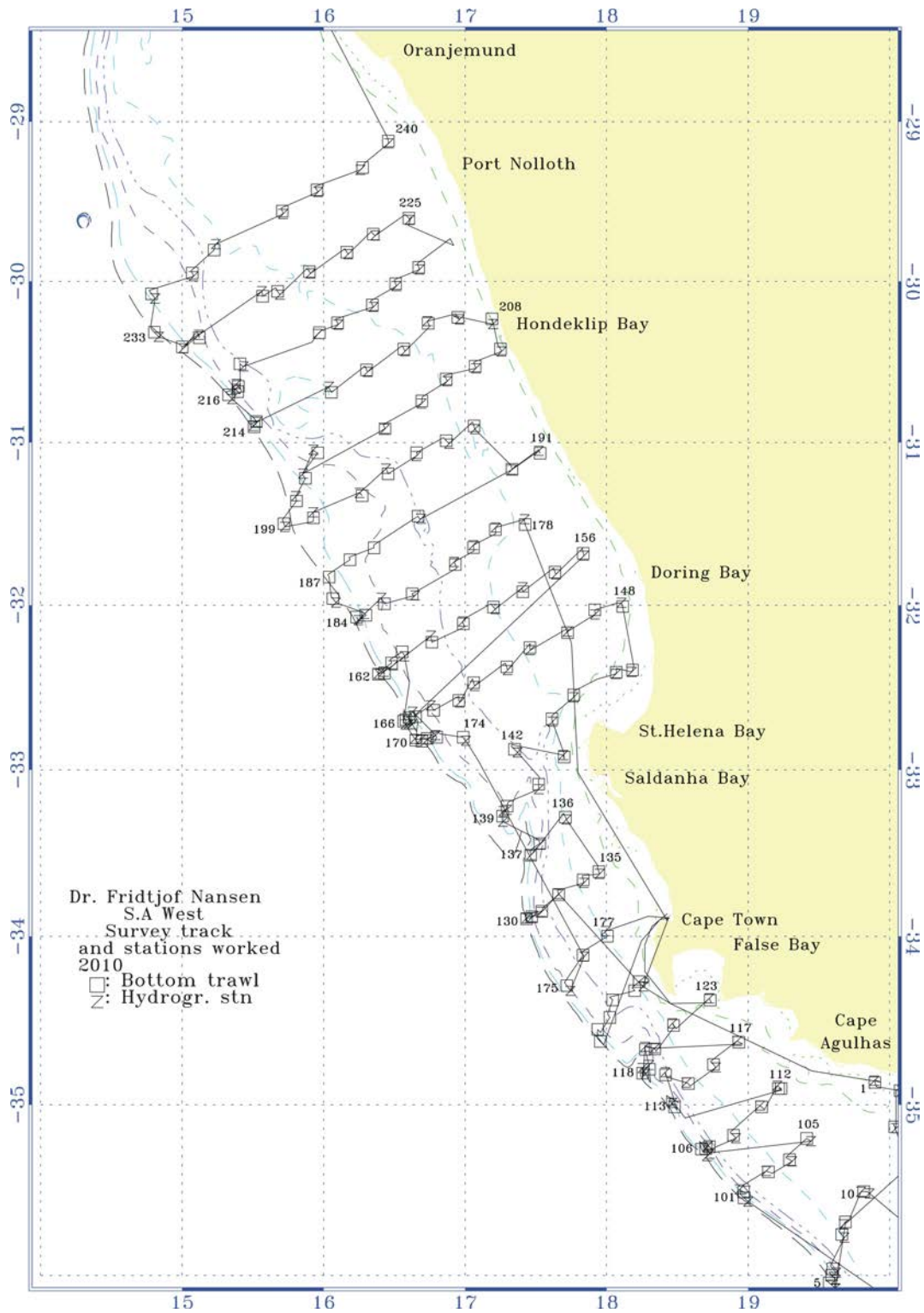


Figure 3.1b Course tracks with hydrographic and trawl stations Cape Agulhas-Orange River.

## 4 Results

### 4.1 Biology

Annex 1 shows the complete record of the fishing stations. Figures 4.3a-b show the distribution of deep water hake (*M. paradoxus*) in the survey area. In the south coast the species is located in a narrow band on the slope along the whole coast, with a higher concentration off Port Elizabeth, Figure 4.3a. This is mainly adult fish bigger than 30cm in length. In the regular coverage on the west coast dense concentrations of adult fish are found on the slope between Cape Agulhas and north to 31°N, very similar to the pattern of the three previous years. Also, in consistence with the previous years, dense concentrations of juvenile fish are found mid-shelf between Doring Bay and Hondeklip Bay, with a 'transit gate' to the slope off St. Helena Bay. The high densities of juvenile fish does not extend north of Hondeklip Bay, in contrast to the distribution pattern prior to 2008. No spill-over of juveniles north over the Orange Banks into Namibia was observed indicating that the years 2003-2006 when this was observed, represents a different environment regime, yet to be explained.

The distribution of shallow water hake (*M. capensis*) is more uniform (Fig. 4.4a-b) and at generally low level except for aggregations of juvenile fish in the shallow waters off Port Elizabeth, Figure 4.4a and between Doring Bay and Hondeklip Bay, Figure 4.4b.

The density estimates from the point samples have been converted into biomass estimates by length classes. The similar data from the Namibian trawl survey running in the same period have been processed following similar procedures. The joint estimates on deep water hake are shown in Table 4.1. Figure 4.5 shows the regional distribution of deep water hake from combining the Namibian and South African data for the west coast. For the sake of consistent comparison with the previous surveys in the series, the estimates of the south coast are treated separately below. Figure 4.6a shows a graphical representation of the estimates by numbers of deep water hake (west coast only), with the Namibian estimates stacked on top of the South African while Fig 4.6b shows the % share of the biomass of the respective countries in numbers by length. There is an increasing share of fish from Namibia from 20 cm onto about 50cm in line with previous years. However the share of adult fish in South African waters is consistently much higher than in previous years (Fig. 4.6b). Beyond 57cm the Namibian share is decreasing and from approximately 65cm all the fish is found in South Africa. This is the same general trend as from previous surveys.

Results indicate general southern shift of the adult population of deep water hake into South African as compared with previous years.

Table 4.2 shows the estimates of the hakes on the southern coast, not previously covered by “Dr. Fridtjof Nansen” as part of the series of surveys on the transboundary resources. For comparison the west coast estimates referred to above are also included. The total estimate of deep water hake on the south coast is 100 thousand tonnes, of which 14 thousand tonnes is non-fishable while 86 thousand tonnes is fishable. The non-fishable biomass is only about 5% of the total non-fishable biomass in South African waters, while the fishable biomass on the south coast is 34% of the total fishable biomass in South African waters at the time of the survey. Related to the whole transboundary survey region including Namibia (Table 4.3) the fishable biomass on the south coast constitutes 28% of the total fishable biomass. The very low abundance of non-fishable biomass (fish less than 36cm) on the south coast, 5% in weight and 2% in numbers, indicates that this fish has its nursery area outside the south coast region, i.e. on the west coast.

The results from this transboundary survey indicates strongly that in the whole region from Port Alfred on the south coast to the Cunene in Namibia is recruited by fish that has its juvenile origin in the Hondeklip Bay area and should therefore biologically be understood as an integrated stock system. The absence of juvenile deep water hake on the south coast in January 2010 is remarkable and should be checked against previous national South African surveys in this area.

In this survey very few fish of length less than 20cm was found in Namibian waters. This is consistent with the finding that there is no fish spilling over the Orange Banks from South Africa into Namibia (Figure 4.5).

Figure 4.7 shows the distribution of ‘baby’ hake 5-6cm as observed from all trawl hauls, bottom and pelagic. The main part of the fish is located mid-shelf off Port Nolloth, between 180 and 240m bottom depth. The highest densities are found in the northern and deeper part. Although most of this fish is pelagic, it’s consistent presence in the bottom trawl in this area, and not outside, indicate that this is the nursery area for the very young deep water hake. It is not mixed with shallow water hake at this location.

A small patch of baby was also observed off False Bay, Figure 4.7. A similar small patch was also observed in 2009, but then off the Cape Peninsula. This indicate that

there could be a minor nursery area in this region, but that it is not stable and of minor importance as compared to the main area off Port Nolloth.

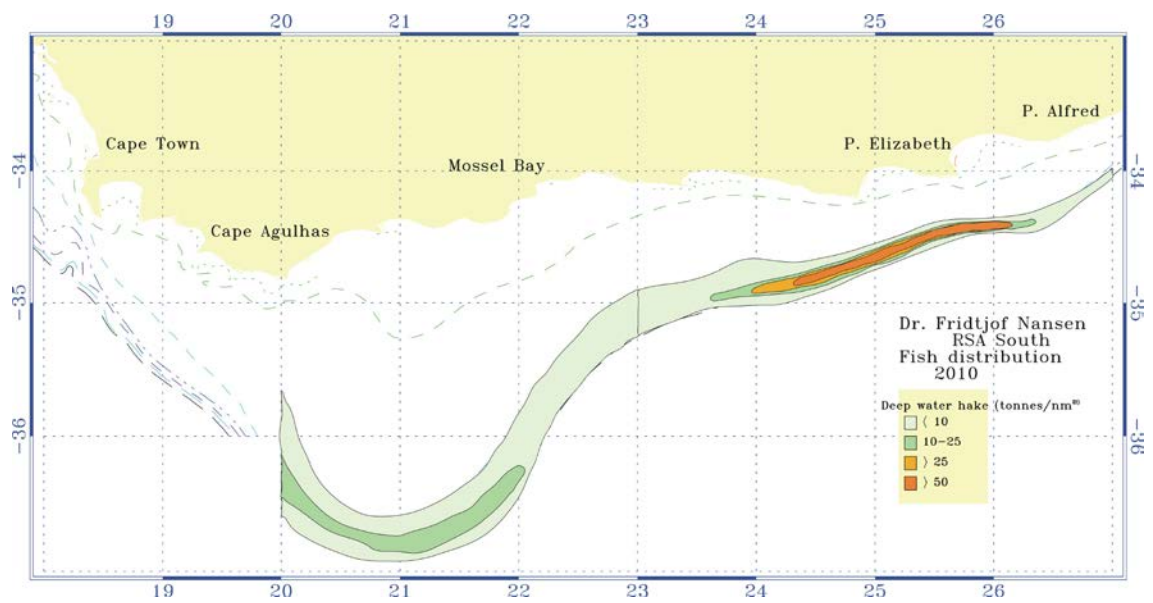


Figure 4.3a Distribution of deep-water hake (*Merluccius paradoxus*) Cape Agulhas-Port Alfred.

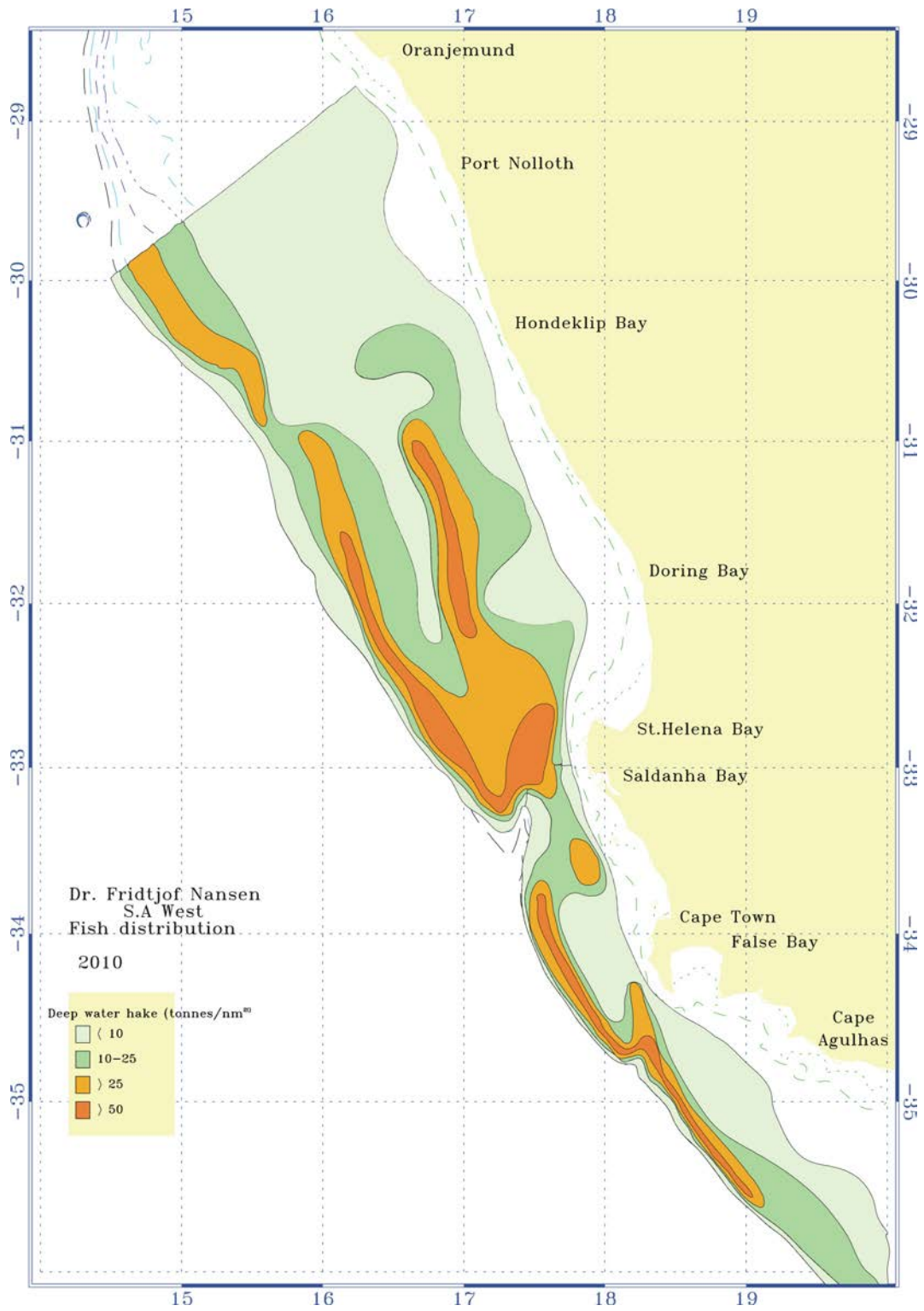


Figure 4.3b Distribution of deep-water hake (*Merluccius paradoxus*) Cape Agulhas-Orange River.



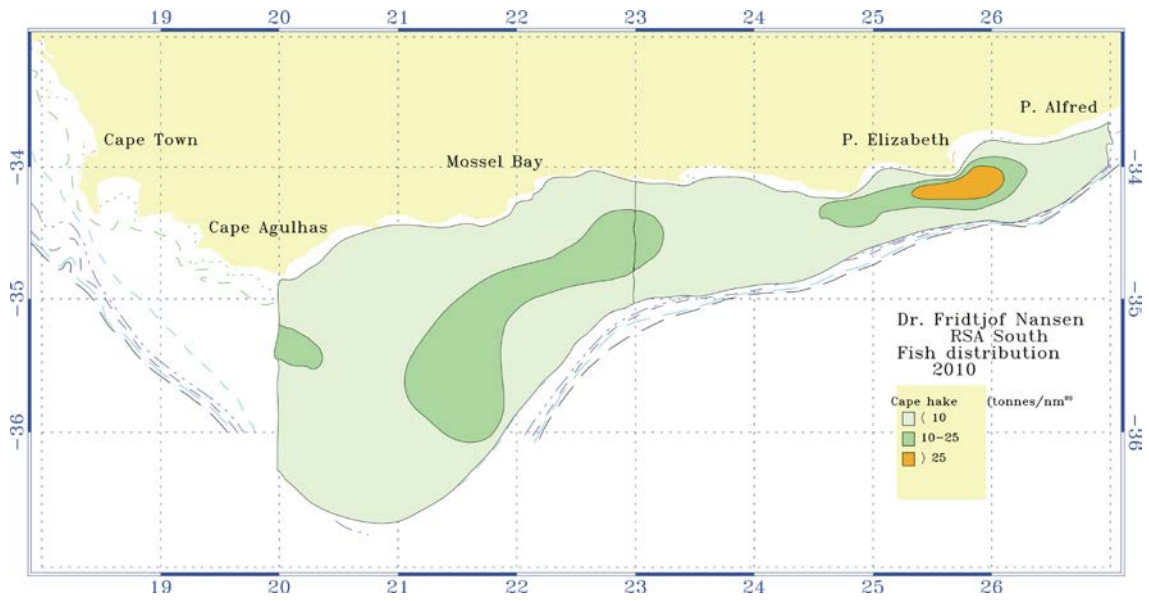


Figure 4.4a Distribution of Cape hake (*Merluccius capensis*) Cape Agulhas-Port Alfred.



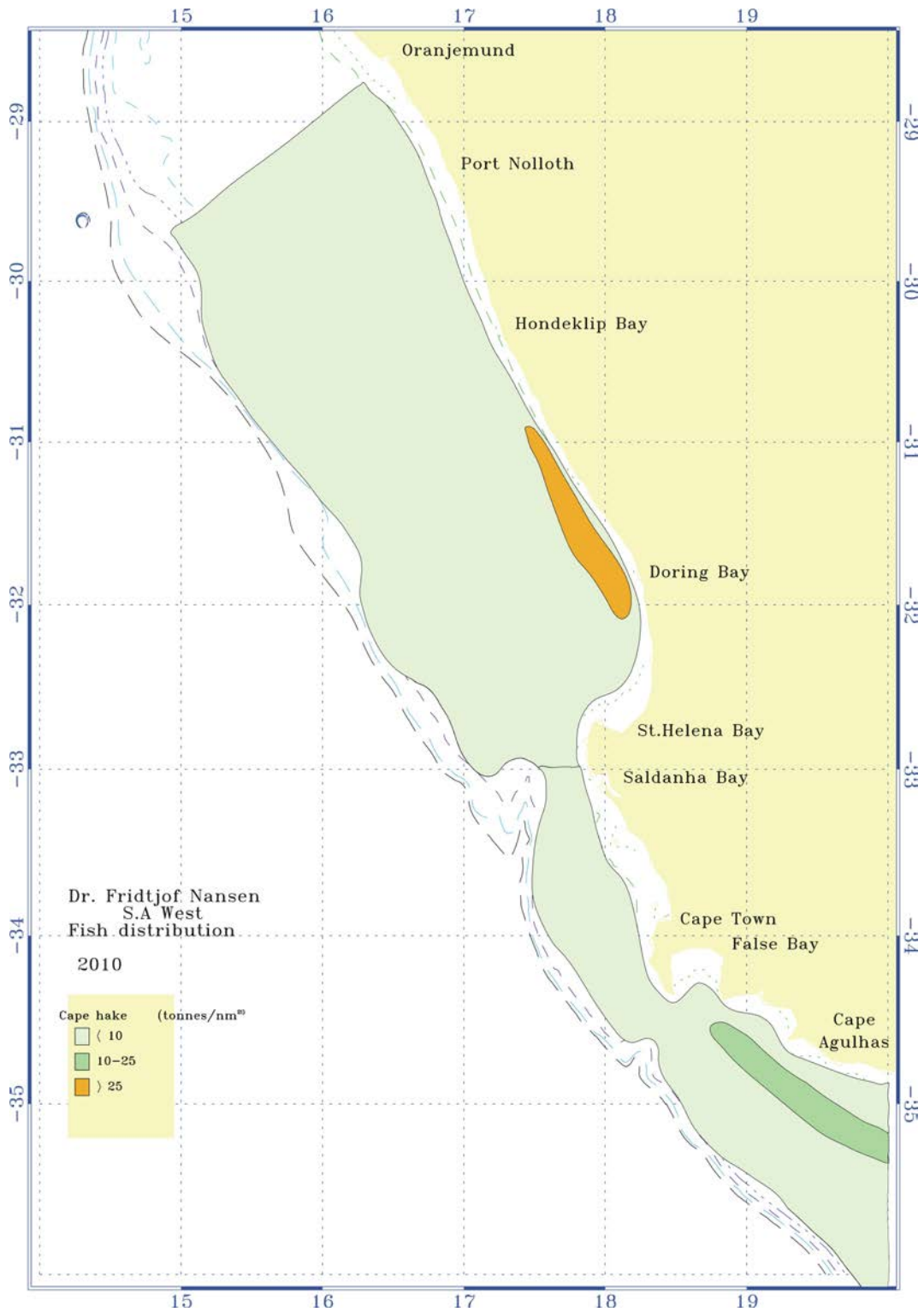


Figure 4.4b Distribution of Cape hake (*Merluccius capensis*) Cape Agulhas-Orange River.

Table 4.4 shows the biomass estimates of deep water hake split by fishable and non-fishable biomass in Namibia and South Africa west coast for the years 2003, 2005-2010. Figure 4.8a and 4.8b show the Namibian and South African biomasses plotted against each other for the non-fishable and fishable biomass respectively. Both the

level and ratio of non-fishable biomass between the two countries seems to be rather stable in the period until 2008 while a decline in Namibia was observed in 2009, Figure 4.8a. The non-fishable biomass that can also be seen as a recruitment index is a record high in 2010. The total index is roundly 360 thousand tonnes of which roundly 300 thousand tonnes are located in South Africa. The recruitment in South Africa is exceptionally high, while in Namibia it is still below the mean of the time series, Figure 4.8a.

The fishable biomass, Figure 4.8b shows a relative stable level in the years 2003, 2005 and 2006. The gradual increase in the biomass 2007-2009 seems to indicate close to a linear relationship between the two countries' share of the biomass. In 2010 there was

Table 4.1 Regional abundance estimates of *M. paradoxus*. *South Africa south coast not included.*

Length	Biomass in tonnes			Number in millions		
	Namibia	S. Africa	Total	Namibia	S. Africa	Total
0		1	1		1.6	1.6
5	52	910	962	11.1	249.2	260.3
10	217	4101	4318	17.9	314.3	332.2
15	1437	31832	33269	34.6	831.6	866.2
20	15689	70349	86038	202.7	952.9	1155.6
25	18404	98546	116950	135.0	737.6	872.6
30	24704	81303	106007	114.8	379.2	494.0
35	19152	46694	65845	57.7	138.8	196.4
40	12031	36244	48275	24.7	73.5	98.2
45	12135	35548	47683	17.5	52.0	69.5
50	10931	27787	38718	11.8	29.9	41.7
55	4990	17438	22428	4.2	14.3	18.5
60	994	8656	9650	0.7	5.6	6.2
65	102	4151	4253	0.1	2.1	2.2
70	14	2077	2091	0.0	0.9	0.9
75	0	1359	1359	0.0	0.5	0.5
80	0	562	562	0.0	0.2	0.2
85		175	175		0.0	0.0
90		0	0		0.0	0.0
95		19	19		0.0	0.0
100						
Total	120853	467751	588604	632.9	3783.9	4416.8
Non-fishable	65282	296928	362210	532.7	3500.4	4033.1
Fishable	55571	170823	226394	100.2	283.5	383.6

considerable increase of the biomass of *M. paradoxus* since the previous year.. The increase in South African waters has been as much as 40%, compensated by a decline in Namibian waters of 27%. This points to a major shift in the distribution of the deep water hake stock at the same time as it is in an expanding phase. These findings should be further analysed together with data from the fishing in the later years to reveal if the changes could be driven by environmental, biological or anthropogenic (fishing) factors or a combination of these. It is vital that the time series on the regional hake is upheld to monitor and determine if this shift in distribution pattern is only temporal or represents a major shift in the ecosystem.

Table 4.2 Abundance estimates of *M. paradoxus*, South Africa including south coast.

Length	Biomass in tonnes			Number in millions			% weight	% number
	SA west	SA south	Total	SA west	SA south	Total	SA south	SA south
0	1	0	1	1.6	0.0	1.6	0.00	0.00
5	910	0	910	249.2	0.0	249.2	0.00	0.00
10	4101	0	4101	314.3	0.0	314.3	0.01	0.00
15	31832	2	31833	831.6	0.0	831.6	0.01	0.01
20	70349	22	70371	952.9	0.3	953.2	0.03	0.03
25	98546	485	99031	737.6	3.2	740.8	0.49	0.43
30	81303	10092	91394	379.2	42.9	422.1	11.0	10.2
35	46694	22148	68842	138.8	65.1	203.9	32.2	31.9
40	36244	23396	59640	73.5	47.2	120.8	39.2	39.1
45	35548	23740	59288	52.0	35.0	87.0	40.0	40.3
50	27787	9971	37759	29.9	10.9	40.8	26.4	26.8
55	17438	3577	21016	14.3	2.9	17.2	17.0	16.8
60	8656	2792	11447	5.6	1.8	7.3	24.4	24.3
65	4151	1817	5968	2.1	0.9	3.0	30.4	30.8
70	2077	951	3028	0.9	0.4	1.2	31.4	31.3
75	1359	705	2064	0.5	0.2	0.7	34.2	33.8
80	562	335	897	0.2	0.1	0.3	37.4	37.3
85	175	244	419	0.0	0.1	0.1	58.2	56.9
90	0	34	34	0.0	0.0	0.0	100.0	100.0
95	19	0	19	0.0	0.0	0.0	0.0	0.0
100	0	0	0	0.0	0.0	0.0		
Total	467751	100312	568063	3783.9	211.1	3995.0	17.7	5.3
Non-fishable	296928	14428	311357	3500.4	59.6	3560.0	4.6	1.7
Fishable	170823	85883	256706	283.5	151.5	434.9	33.5	34.8

Table 4.3 Regional abundance estimates of *M. paradoxus* including South Africa south coast.

Length	Biomass in tonnes			Number in millions			%weight	% number
	Namibia	S. Africa	Total	Namibia	S. Africa	Total	S Africa	S. Africa
0	0	1	1	0.0	1.6	1.6	100	100
5	52	910	962	11.1	249.2	260.3	95	96
10	217	4101	4318	17.9	314.3	332.2	95	95
15	1437	31833	33271	34.6	831.6	866.2	96	96
20	15689	70371	86060	202.7	953.2	1155.9	82	82
25	18404	99031	117436	135.0	740.8	875.8	84	85
30	24704	91394	116098	114.8	422.1	536.9	79	79
35	19152	68842	87993	57.7	203.9	261.5	78	78
40	12031	59640	71671	24.7	120.8	145.5	83	83
45	12135	59288	71424	17.5	87.0	104.5	83	83
50	10931	37759	48689	11.8	40.8	52.6	78	78
55	4990	21016	26006	4.2	17.2	21.4	81	80
60	994	11447	12442	0.7	7.3	8.0	92	92
65	102	5968	6070	0.1	3.0	3.1	98	98
70	14	3028	3042	0.0	1.2	1.2	100	100
75	0	2064	2064	0.0	0.7	0.7	100	100
80	0	897	897	0.0	0.3	0.3	100	100
85	0	419	419	0.0	0.1	0.1	100	100
90	0	34	34	0.0	0.0	0.0	100	100
95	0	19	19	0.0	0.0	0.0	100	100
100	0	0	0	0.0	0.0	0.0		
Total	120853	568063	688915	632.9	3995.0	4627.9	82	86
Non-fishable	65282	311357	376639	532.7	3560.0	4092.8	83	87
Fishable	55571	256706	312277	100.2	434.9	535.1	82	81

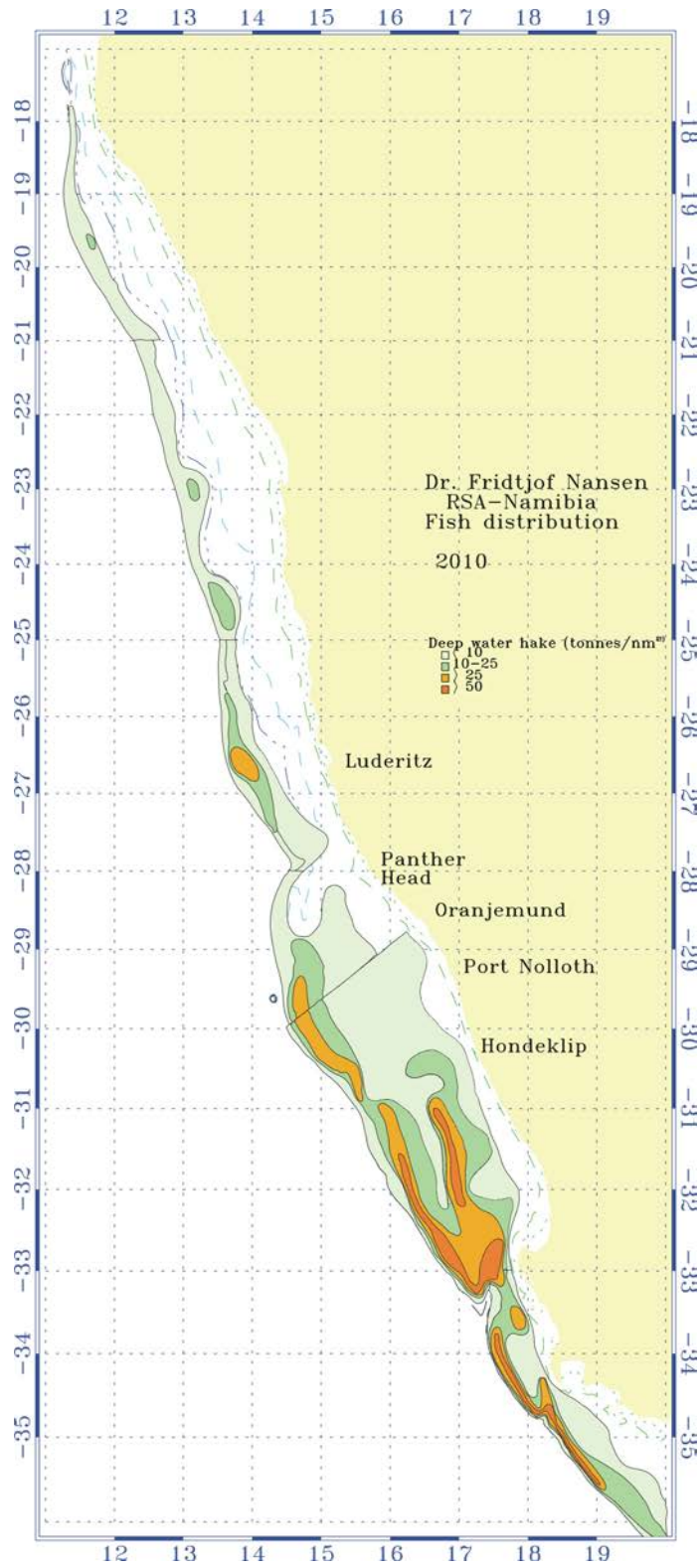


Figure 4.5 Distribution of deep-water hake (*M. paradoxus*) from Cunene to Cape Agulhas 2010

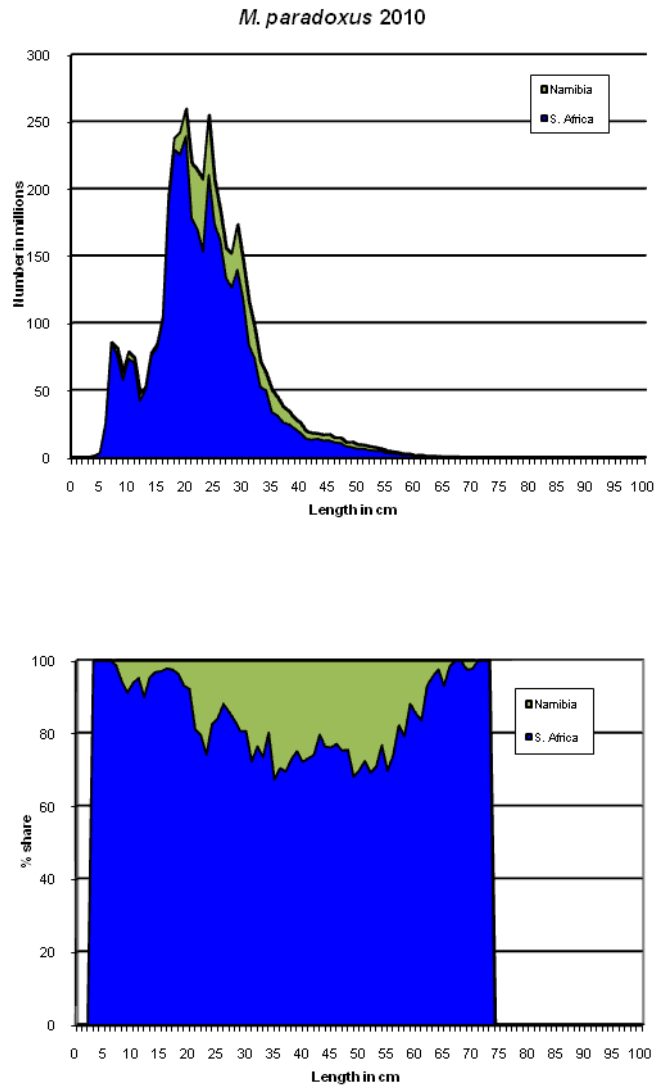


Figure 4.6 a) Estimated abundance in numbers of deep-water hake by 1 cm length classes. Namibia (green) added on top of South-Africa (blue).  
 b) % share between South-Africa (blue) and Namibia (green) of deep-water hake in numbers by 1 cm length classes in January-February 2010.

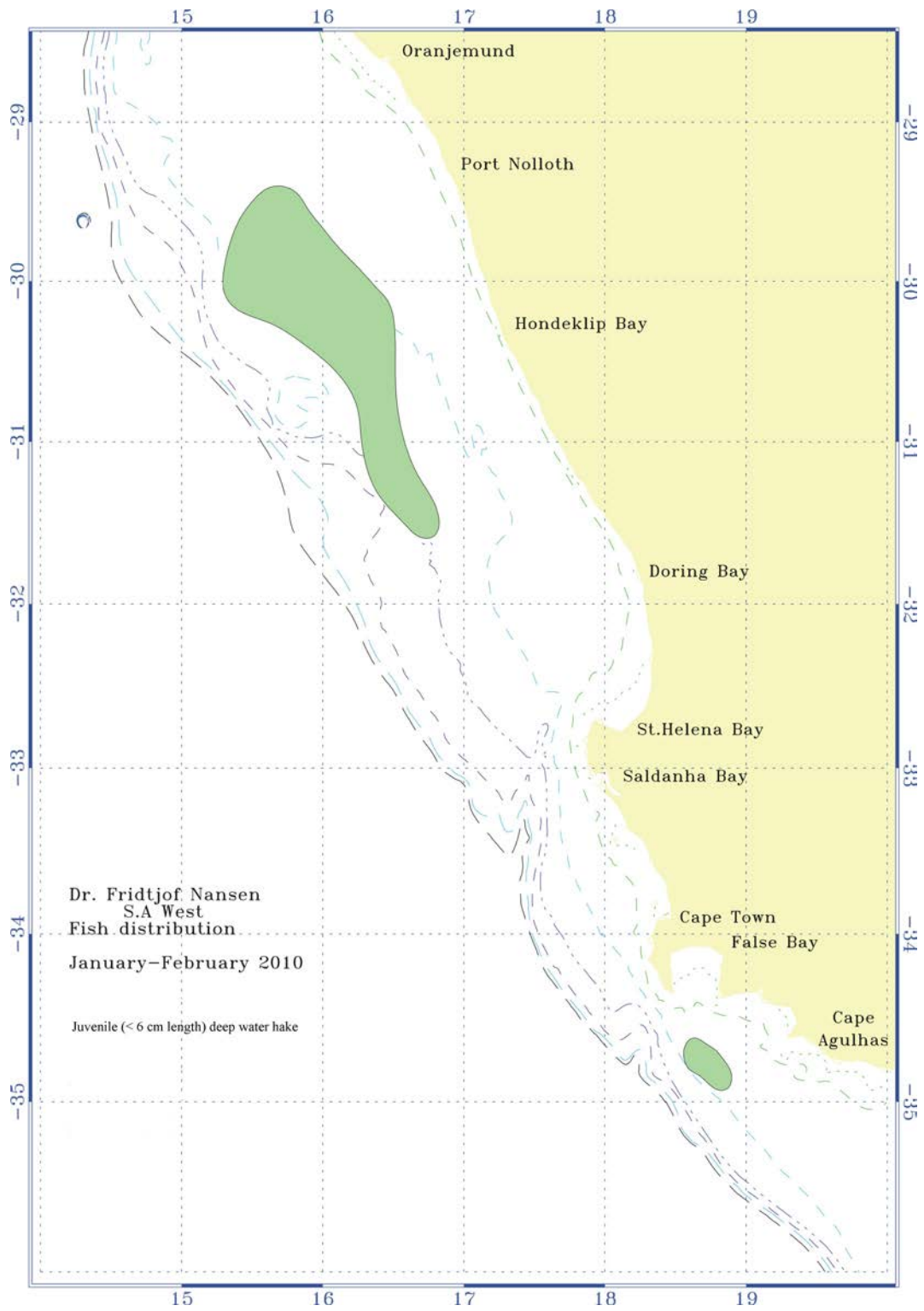


Figure 4.7 Presence of baby hake (<6 cm length) in trawl catches.

Table 4.4 Non-fishable and fishable biomass deep water hake  
 Namibia and South Africa west coast 2003-2010.

Year	Non-Fishable		Fishable	
	Namibia	South Africa	Namibia	South Africa
2003	76361	232227	40080	79455
2005	68235	200077	46962	88850
2006	71781	273640	43414	66823
2007	81984	234518	66044	79894
2008	71080	194948	92272	117127
2009	52139	231501	76081	121594
2010	65282	296928	55571	170823

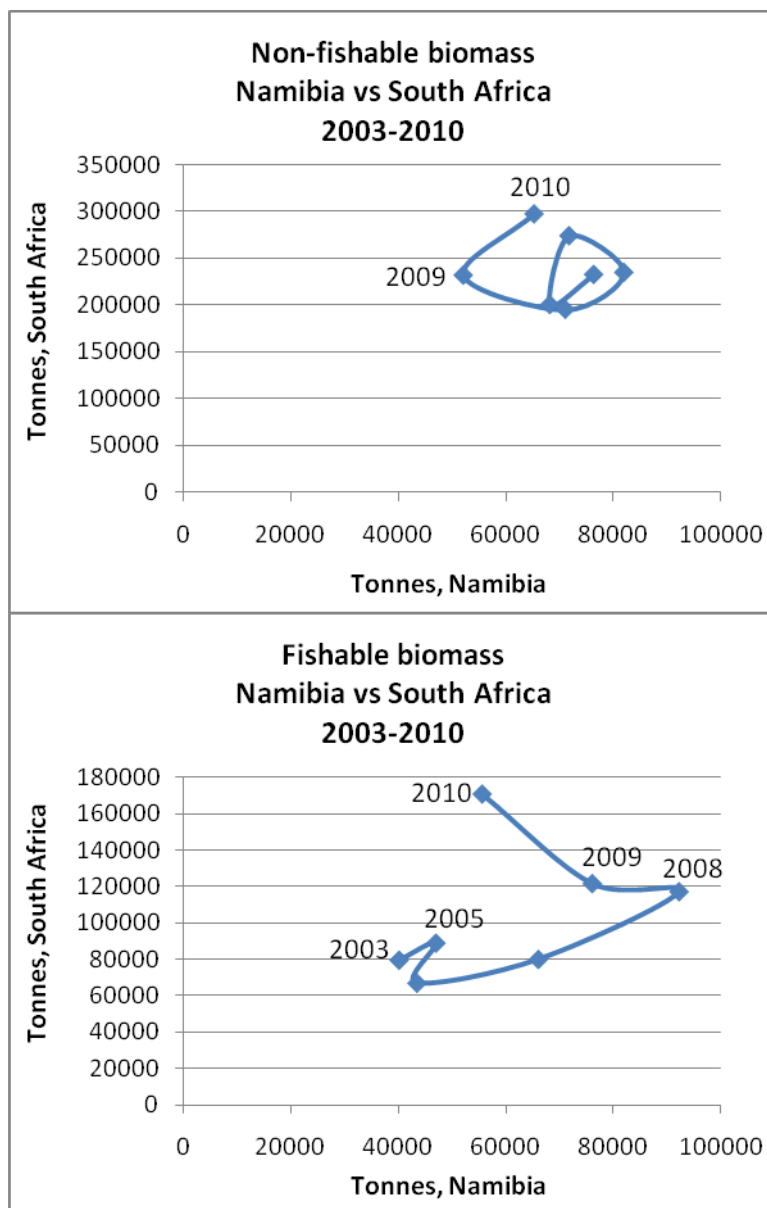


Figure 4.8. Relationship between biomass estimates on deep water hake in Namibia and South Africa. Above: Non-fishable biomass (<36cm), Below: fishable biomass.



Table 4.5 shows the density estimates of *M. paradoxus* by bottom depth strata and by regions, three regions in Namibia and four in South Africa. Table 4.3 shows the similar data for *M. capensis*. The areas of these depth strata and regions are listed in Annex 3.

Table 4.5 Density estimates of *M. paradoxus* by depth strata and regions.

Region	0-99m	100-199m	200-299m	300-399m	400-499m	500-599	600-699
Cunene-21°S	n.a.	0	0	0	4.93	4.23	3.21
21°S-25°S	n.a.	0	0	3.05	4.35	4.23	4.23
25°S-Orange River	0	2.12	1.80	3.40	17.55	8.17	4.53
Orange River-S. Hondeklip Bay	n.a.	3.96	5.47	21.63	30.10	19.09	2.89
S. Hondeklip Bay-N. Saldanha Bay	0	4.18	38.46	38.63	68.02	21.57	4.68
N. Saldanha Bay- Cape of Good Hope	n.a.	19.52	16.88	99.94	32.05	10.07	n.a.
Cape of Good Hope – Cape Agulhas	0	1.52	6.08	67.34	93.36	4.51	n.a.

Table 4.6 Density estimates of *M. capensis* by depth strata and regions.

Region	0-99m	100-199m	200-299m	300-399m	400-499m	500-599	600-699
Cunene-21°S	n.a.	72.27	58.84	25.66	9.33	0	0
21°S-25°S	n.a.	21.65	26.36	15.94	0	0	0
25°S-Orange River	7.46	19.74	16.80	6.67	0.10	0	0
Orange River-S. Hondeklip Bay	n.a.	2.47	1.62	0.90	0.08	0	0
S. Hondeklip Bay-N. Saldanha Bay	0.13	12.69	0.88	1.12	0.36	0	0
N. Saldanha Bay-Cape of Good Hope	n.a.	2.50	1.17	5.26	0.06	0	n.a.
Cape of Good Hope – Cape Agulhas	0.72	8.85	3.20	0.65	0	0	n.a.

## 5 Considerations of the survey results, *M. paradoxus*

The findings from the survey 7 January-26 February combined with similar findings from the Namibian survey in the period 14 January-19 February confirms some the general features as regards the distribution of *M. paradoxus*:

- Minimal spawning takes place at this time of the year, confirmed through few signs of maturing gonads.
- The early pelagic stage is mainly confined to the central-outer part of the shelf off Port Nolloth in a small area off the Cape Peninsula.
- Juveniles between 15 and 24cm are mainly concentrated on the shelf between Hondeklip Bay and St. Helena Bay. In contrast to some earlier years there are no spill over of juvenile fish northwards over the Orange Banks into Namibia. The main interface between Namibia and South Africa seems to be along the slope. The same pattern occurred in the period 2007-2009 while in the preceding years there was a continuous channel of fish extending into Namibia over the Orange Banks during the January surveys. There might though be a seasonal pattern not revealed in the timeseries as all surveys are in January-February.
- The massive migration towards the slope starts in the 25-29cm group and when the fish is bigger than 30cm this movement is mainly completed.
- The adult fish is found from Cunene in the north and southwards beyond Cape Agulhas. The biggest fish, bigger than 70cm is, in consistency with previous surveys, only recorded in South Africa.
- The main part of the stock is at the time of the survey in 2010 located in South Africa which holds about 75% of the fishable biomass (fish bigger than 35cm) and 82% of the non-fishable biomass.
- The regional standing stock has been on a rising trend in the last four years. The regional estimate of fishable biomass has increased from 110 thousand tonnes in 2006 to roundly 230 thousand tonnes in 2010, representing a 109% increase.
- Generally for all years; for the size range 55 to 60cm fish length there is an increased share of the biomass in Namibian waters compared to

smaller and bigger fish classes, perhaps indicating a periodic immigration from south in terms of the life cycle.

- From 2009 to 2010 there has been a major shift in the distribution of adult hake between the two countries. At the same time as the combined biomass has increased 15%, the increase has been 40% in South Africa, compensated by a 27% decline in Namibian waters. This breaks a linear trend that has been observed between the country biomasses in the period 2003-2009 and warrants further investigations and continued monitoring if this represents a regime shift or a temporal anomaly.
- The south coast of South Africa was in 2010 covered for the first time as part of the BCC surveys on transboundary stocks in order to have full synoptic survey and to investigate to what extent the southern stock component showed connectivity to the fish on the west coast. The deep water hake in this region is estimated to 100 thousand tonnes, which represents 15 % of the total paradoxus 2010 estimate and 18% of the South African estimate.
- The deep water hake in this region consists mainly of fish in the size range 35-70cm. The young fish less than 36cm (“non-fishable biomass”) on the south coast comprises less than 5% in terms of biomass of this fish in South African waters. This is a remarkable finding as it indicates that the southern component is mainly supplied by recruits from the west coast. The whole region from Port Alfred to the Cunene could therefore be understood as an integrated connected system as regards the stock of deep water hake.
- Blue Sea and “Dr. Fridtjof Nansen” use identical trawls and similar survey design and sampling protocol. The catchability coefficient in the biomass estimates applied is 0.8. Since the catchability coefficient of the trawl used on Dr. Fridtjof Nansen and Blue Sea has not been calibrated against absolute densities in the path of the trawl, the biomass estimates given here should not be considered as absolute biomass, but as indices of biomass. Thus the essential information is in relative comparisons and trends.

## Annex 1 Records of fishing stations

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 1  
 DATE :08/01/2010 GEAR TYPE: BT NO: 21 POSITION:Lat S 34°52.10  
 start stop duration Purpose : 3  
 TIME :07:13:11 07:43:10 30.0 (min) Region : 6000  
 LOG : 4424.24 4425.85 1.6 Gear cond.: 0  
 FDEPTH: 47 42 Validity : 0  
 BDEPTH: 47 42 Speed : 3.2 kn  
 Towing dir: 0° Wire out : 118 m  
 Sorted : 167 Total catch: 6670.00 Catch/hour: 13344.45

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 4  
 DATE :08/01/2010 GEAR TYPE: BT NO: 21 POSITION:Lat S 35°20.26  
 start stop duration Purpose : 3  
 TIME :17:23:10 17:53:09 30.0 (min) Region : 6000  
 LOG : 4494.64 4496.26 1.6 Gear cond.: 0  
 FDEPTH: 144 142 Validity : 0  
 BDEPTH: 144 142 Speed : 3.2 kn  
 Towing dir: 0° Wire out : 355 m  
 Sorted : 693 Total catch: 692.98 Catch/hour: 1386.42

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Engraulis capensis	8082.69	0	60.57	
Trachurus capensis	3521.17	46896	26.39	1
Etrumeus whiteheadi	1040.35	0	7.80	
Coral - mixed	264.09	0	1.98	
Pterogymnus lanarius	208.07	2241	1.56	2
Loligo reynaudi, male	98.43	0	0.74	
Loligo reynaudi, female	36.01	0	0.27	
Rhabdosargus globiceps	24.01	80	0.18	6
Rhabdosargus globiceps	23.21	80	0.17	7
Argyrozona argyrozona	16.01	320	0.12	3
Thyrssites atun	16.01	80	0.12	4
Haplolepharus edwardsii	13.60	80	0.10	
Clinus sp.	0.80	80	0.01	5
<b>Total</b>	<b>13344.45</b>		<b>100.00</b>	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius capensis	710.24	1531	51.23	30
Trachurus capensis	268.09	2547	19.34	35
Chelidonichthys capensis	138.05	346	9.96	32
Squalus megalops	62.02	128	4.47	
Callorhynchus capensis	44.01	28	3.17	
Loligo reynaudi	40.61	330	2.93	44
Loligo reynaudi	20.81	182	1.50	45
Zeus capensis	16.81	252	1.21	37
Lophius vomerinus	16.61	20	1.20	34
Raja alba	14.00	4	1.01	
Raja straeleni	14.00	18	1.01	
Lepidopus caudatus	12.70	24	0.92	
Chirodactylus grandis	7.00	2	0.51	29
Mustelus palumbes	4.40	2	0.32	
Merluccius capensis	2.04	230	0.15	47
Holohalaelurus regani	2.00	4	0.14	
Genypterus capensis	2.00	18	0.14	36
Chelidonichthys queketti	2.00	14	0.14	33
Cynoglossus zanzibarensis	1.92	26	0.14	38
Austroglossus pectoralis	1.60	4	0.12	39
Todaropsis eblanae	1.52	44	0.11	41
Sepia australis	1.00	200	0.07	
Pterygossquilla armata capensis	0.56	4	0.04	
Loligo reynaudi	0.56	16	0.04	46
Palinurus gilchristi	0.50	2	0.04	42
Palinurus gilchristi	0.46	2	0.03	43
Parapagurus pilosimanus	0.24	52	0.02	
Gorgonians	0.20	2	0.01	
Congipodus spinifer	0.18	2	0.01	
Starfish	0.10	2	0.01	
Paracallionymus costatus	0.09	28	0.01	
Todaropsis eblanae	0.07	2	0.01	40
Champsodon capensis	0.02	2	0.00	
<b>Total</b>	<b>1386.42</b>		<b>100.00</b>	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 2  
 DATE :08/01/2010 GEAR TYPE: BT NO: 21 POSITION:Lat S 34°54.97  
 start stop duration Purpose : 3  
 TIME :09:37:05 10:07:27 30.4 (min) Region : 6000  
 LOG : 4437.15 4438.71 1.6 Gear cond.: 0  
 FDEPTH: 69 64 Validity : 0  
 BDEPTH: 69 64 Speed : 3.1 kn  
 Towing dir: 0° Wire out : 180 m  
 Sorted : 137 Total catch: 395.52 Catch/hour: 781.41

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Engraulis capensis	560.09	0	71.68	
Chelidonichthys capensis	65.20	111	8.34	9
Trachurus capensis	47.12	614	6.03	17
Merluccius capensis	45.44	87	5.82	8
Loligo reynaudi	20.45	622	2.62	12
Etrumeus whiteheadi	14.05	668	1.80	
Loligo reynaudi	4.98	28	0.64	16
Loligo reynaudi	4.52	28	0.58	15
Pterogymnus lanarius	3.95	10	0.51	10
Chelidonichthys queketti	3.95	28	0.51	11
JELLYFISH	3.12	0	0.40	
Rhabdosargus globiceps	2.17	4	0.28	13
Coral - mixed	1.78	0	0.23	
Gonorrhynchus gonorrhynchus	1.51	28	0.19	
Sepia papillata	1.03	2	0.13	
Rhabdosargus globiceps	0.87	2	0.11	14
Haplolepharus edwardsii	0.59	2	0.08	
Zeus capensis	0.59	4	0.08	
<b>Total</b>	<b>781.41</b>		<b>100.00</b>	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 5  
 DATE :09/01/2010 GEAR TYPE: BT NO: 21 POSITION:Lat S 36°2.62  
 start stop duration Purpose : 3  
 TIME :03:57:40 04:28:38 31.0 (min) Region : 6000  
 LOG : 4575.31 4576.71 1.4 Gear cond.: 0  
 FDEPTH: 838 835 Validity : 0  
 BDEPTH: 838 835 Speed : 2.7 kn  
 Towing dir: 0° Wire out : 1850 m  
 Sorted : 414 Total catch: 413.97 Catch/hour: 802.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Caelorinchus matama	302.23	1800	37.68	
Notacanthus sexspinis	116.24	581	14.49	
Merluccius paradoxus	69.74	43	8.70	48
Necocyttus rhomboidalis	63.93	136	7.97	49
Chaecoon macphersoni	40.68	147	5.07	
Caelorinchus braueri	28.09	1124	3.50	
Etmopterus sp.	25.57	0	3.19	
Diastrorhynchus capensis	24.99	256	3.12	
Nezumia sp.	18.21	229	2.27	
Etmopterus sp.	17.44	33	2.17	0
Selachophidium guentheri	13.56	161	1.69	
Bathyraxia smithii	12.40	8	1.55	
Histioteuthis miranda	11.62	10	1.45	
Apristurus saldanha	9.88	10	1.23	
Centrophorus squamosus	7.75	2	0.97	
Lepidion capensis	7.17	21	0.89	
Synaphobranchus kaupii	6.39	68	0.80	
Funcharia woodwardi	6.16	475	0.77	
Eptaretus profundus	3.51	8	0.44	
ALEPOCEPHALIDAE	2.83	4	0.35	
Sergia sp.	2.58	430	0.32	
ANTHOZOA (Sea anemones)	2.01	4	0.25	
Photichthys argenteus	1.80	31	0.22	
Psychrolutes macrocephalus	1.29	4	0.16	
Caelorinchus matama	1.28	2	0.16	0
Trachyscorpia eschmeyerii	0.56	2	0.07	
Coloconger cadenati	0.54	2	0.07	
Avocettina acuticeps	0.50	10	0.06	
MORIDAE	0.37	2	0.05	
Antimora rostrata	0.37	2	0.05	
Melanonus zugmayeri	0.35	2	0.04	
Melanonus sp.	0.29	2	0.04	
Simenichelys parasiticus	0.23	2	0.03	
Bathypolypus valdiviae	0.22	2	0.03	
Nemichthys curvirostris	0.15	2	0.02	
Lampadena sp.	0.15	4	0.02	
Caelorinchus braueri	0.15	2	0.02	0
Lycoteuthis lorigera	0.15	4	0.02	
Chauliodon sloani	0.14	6	0.02	
Xenodermichthys copei	0.12	2	0.01	
Diaphus sp.	0.10	29	0.01	
Halieutaea sp.	0.07	2	0.01	
P O L Y C H A E T A	0.06	0	0.01	
MYCTOPHIDAE	0.05	17	0.01	
Symbolophorus boops	0.02	4	0.00	
Spirula spirula	0.02	2	0.00	
Phyllosoma	0.00	2	0.00	
<b>Total</b>	<b>802.00</b>		<b>100.00</b>	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 3  
 DATE :08/01/2010 GEAR TYPE: BT NO: 21 POSITION:Lat S 35°7.79  
 start stop duration Purpose : 3  
 TIME :14:35:30 15:00:37 25.1 (min) Region : 6000  
 LOG : 4475.08 4476.38 1.3 Gear cond.: 0  
 FDEPTH: 115 109 Validity : 0  
 BDEPTH: 115 109 Speed : 3.1 kn  
 Towing dir: 0° Wire out : 300 m  
 Sorted : 123 Total catch: 123.43 Catch/hour: 294.81

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius capensis	94.35	155	32.00	18
Pterogymnus lanarius	71.66	213	24.31	19
Etrumeus whiteheadi	33.44	0	11.34	
Loligo reynaudi	11.46	122	3.89	28
Squalus megalops	11.46	24	3.89	
Chelidonichthys capensis	10.99	7	3.73	25
Mustelus palumbes	10.75	5	3.65	
JELLYFISH	10.75	0	3.65	
Engraulis capensis	9.55	955	3.24	
Lophius vomerinus	8.60	2	2.92	26
Loligo reynaudi	4.78	205	1.62	24
Callorhynchus capensis	4.54	2	1.54	
Black sand dollar	2.39	12	0.81	
Zeus capensis	2.15	14	0.73	22
Loligo reynaudi	2.15	24	0.73	27
Thyrssites atun	1.91	2	0.65	20
Gorgonians	1.67	5	0.57	
B I V A L V E S	0.72	0	0.24	
Sardinops ocellatus	0.53	10	0.18	
Austroglossus pectoralis	0.48	2	0.16	21
Trachurus capensis	0.24	5	0.08	
Gonorrhynchus gonorrhynchus	0.14	2	0.05	
Arnglossus capensis	0.07	2	0.02	
Sepia australis	0.02	0	0.01	
Paracallionymus costatus	0.01	2	0.00	
Lalligoncula mercatoris	0.01	5	0.00	
<b>Total</b>	<b>294.81</b>		<b>100.00</b>	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 6  
 DATE :09/01/2010 GEAR TYPE: BT NO: 21 POSITION:Lat S 35°59.99  
 start stop duration Purpose : 3  
 TIME :06:40:06 07:11:33 31.4 (min) Lon E 19°35.34  
 LOG : 4584.75 4586.26 1.5 Region : 6000  
 FDEPTH: 591 578 Gear cond.: 0  
 BDEPTH: 591 578 Validity : 0  
 Towing dir: 0° Wire out : 1300 m Speed : 2.9 km  
 Sorted : 335 Total catch: 334.53 Catch/hour: 638.41

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 8  
 DATE :09/01/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 35°45.65  
 start stop duration Purpose : 3  
 TIME :11:44:36 12:15:29 30.9 (min) Lon E 19°39.71  
 LOG : 4610.89 4612.42 1.5 Region : 6000  
 FDEPTH: 194 194 Gear cond.: 0  
 BDEPTH: 194 194 Validity : 0  
 Towing dir: 0° Wire out : 520 m Speed : 3.0 km  
 Sorted : 539 Total catch: 539.50 Catch/hour: 1047.91

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	227.10	219	35.57	53
Funcharia woodwardi	106.87	3817	16.74	
Merluccius paradoxus	76.34	116	11.96	52
Caelorinchus braueri	55.34	1086	8.67	
Lophius vomerinus	38.17	10	5.98	50
Raja doutrei	27.67	4	4.33	
Chaeceon macphersoni	22.90	145	3.59	
Lepidion capensis	17.18	107	2.69	
Helicolenus dactylopterus	15.27	67	2.39	51
Etmopterus sp.	12.79	34	2.00	
Photichthys argenteus	7.25	99	1.14	
Anemones, pink	6.72	19	1.05	
Notacanthus sexspinis	5.42	38	0.85	
Psychrolutes macrocephalus	3.55	11	0.56	
Kuronezumia leonis	3.11	11	0.49	
Histioteuthis miranda	2.39	2	0.37	
Bassanago albescens	2.14	4	0.33	
Etmopterus brachyurus	1.91	8	0.30	
Malacocephalus laevis	1.07	2	0.17	
B I V A L V E S	1.03	17	0.16	
Eptatretus profundus	0.76	2	0.12	
Tripterophycis gilchristi	0.64	19	0.10	
Caelorinchus matamua	0.46	19	0.07	
Avocettina acuticeps	0.41	11	0.06	
Bathypolypus valdiviae	0.31	4	0.05	
ANTHOZOA (Sea anemones)	0.29	2	0.04	
Nezumia sp.	0.24	23	0.04	
Raja leopardus	0.19	2	0.03	
Symbolophorus boops	0.17	10	0.03	
Diaphus sp.	0.13	36	0.02	0
Starfish	0.13	6	0.02	
Neoscopelus macrolepidotus	0.09	2	0.01	
Lycoteuthis lorigera	0.08	2	0.01	
Gymnoscopelus sp.	0.05	2	0.01	
Stoloteuthis sp.	0.04	10	0.01	
Malacosteus niger	0.04	2	0.01	
Plagiogeneion rubiginosus	0.04	2	0.01	
Rossia enigmatica	0.03	2	0.01	
P O L Y C H A E T A	0.03	0	0.00	
Leptocephalus	0.03	2	0.00	
Diaphus sp.	0.02	2	0.00	
Chaulliodus sloani	0.01	2	0.00	
Starfish	0.01	2	0.00	0
MYCTOPHIDAE	0.01	2	0.00	
Total	638.41		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	376.82	1026	35.96	65
Merluccius capensis	165.10	118	15.76	63
Merluccius paradoxus	108.77	305	10.38	66
Parapagurus dimorphus	79.64	8865	7.60	
Trachurus capensis	64.10	410	6.12	68
Loligo reynaudi	62.16	190	5.93	76
Caelorinchus simorhynchus	42.73	400	4.08	
Merluccius capensis	31.08	23	2.97	64
Lophius vomerinus	21.37	16	2.04	67
Squalus megalops	19.62	41	1.87	
Helicolenus dactylopterus	9.71	54	0.93	70
Lepidopus caudatus	8.74	16	0.83	
Chelidonichthys capensis	8.74	16	0.83	69
Todaropsis eblanae	7.13	80	0.68	73
Todaropsis eblanae	6.99	76	0.67	74
Callorhynchus capensis	6.99	2	0.67	
URCHINS	5.83	29	0.56	
Starfish	5.83	0	0.56	
Holohalaelurus regani	3.63	8	0.35	
Zeus capensis	3.05	17	0.29	72
Chelidonichthys queketti	2.33	132	0.22	71
Loligo reynaudi	2.23	8	0.21	75
Scyllorhinus capensis	2.18	10	0.21	
Palinurus gilchristi	1.94	8	0.19	78
Palinurus gilchristi	0.72	4	0.07	77
Starfish	0.37	0	0.04	0
Sepia hieronis	0.06	2	0.01	
B I V A L V E S	0.05	2	0.00	
CYPRAEIDAE (Bulia)	0.01	8	0.00	
Total	1047.91		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 9  
 DATE :09/01/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 35°41.27  
 start stop duration Purpose : 3  
 TIME :13:27:55 13:58:40 30.8 (min) Lon E 19°41.22  
 LOG : 4617.30 4618.77 1.5 Region : 6000  
 FDEPTH: 183 180 Gear cond.: 0  
 BDEPTH: 183 180 Validity : 0  
 Towing dir: 0° Wire out : 450 m Speed : 2.9 km  
 Sorted : 456 Total catch: 455.53 Catch/hour: 888.84

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius capensis	400.00	416	45.00	79
Squalus megalops	107.32	0	12.07	
Callorhynchus capensis	48.78	21	5.49	
Trachurus capensis	44.88	300	5.05	84
Chelidonichthys capensis	40.98	70	4.61	82
Loligo reynaudi	40.00	131	4.50	88
Merluccius paradoxus	31.22	103	3.51	80
Lophius vomerinus	27.32	25	3.07	81
Chelidonichthys queketti	25.37	127	2.85	83
Strumeus whiteheadi	17.56	293	1.98	
Parapagurus dimorphus	16.78	2796	1.89	
Helicolenus dactylopterus	15.61	156	1.76	89
URCHINS	11.71	98	1.32	
Loligo reynaudi	11.71	41	1.32	87
Zeus capensis	9.76	55	1.10	85
Mustelus palumbes	9.76	12	1.10	
Todaropsis eblanae	8.23	98	0.93	93
Holohalaelurus regani	4.94	14	0.56	
Cymoglossus zanzibarensis	3.02	20	0.34	91
Palinurus gilchristi	2.13	10	0.24	95
Raja wallacei	1.95	2	0.22	
Raja pullopunctata	1.50	2	0.17	
Brama brama	1.48	2	0.17	90
Raja straeleni	1.23	4	0.14	
JELLYFISH	1.17	2	0.13	
Todaropsis eblanae	1.09	16	0.12	92
Thyrssites atun	0.86	2	0.10	86
Palinurus gilchristi	0.74	4	0.08	94
Scyllorhinus capensis	0.68	2	0.08	
Paracallionymus costatus	0.43	429	0.05	
Molluscs	0.14	8	0.02	
Lepidopus caudatus	0.13	2	0.01	
Starfish	0.12	6	0.01	
Congiopodus spinifer	0.12	2	0.01	
Champsodon capensis	0.06	10	0.01	
Sepia australis	0.02	2	0.00	
Sepia sp.	0.02	2	0.00	0
Sepia hieronis	0.01	2	0.00	
Sepia sp.	0.01	2	0.00	
Total	888.84		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 7  
 DATE :09/01/2010 GEAR TYPE: BT NO: 21 POSITION:Lat S 35°57.73  
 start stop duration Purpose : 3  
 TIME :08:54:41 09:25:12 30.5 (min) Lon E 19°35.88  
 LOG : 4593.46 4594.90 1.4 Region : 6000  
 FDEPTH: 447 439 Gear cond.: 8  
 BDEPTH: 447 439 Validity : 1  
 Towing dir: 0° Wire out : 1000 m Speed : 2.8 km  
 Sorted : 656 Total catch: 656.35 Catch/hour: 1290.75

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Helicolenus dactylopterus	401.18	1306	31.08	54
Merluccius paradoxus	273.35	871	21.18	62
Beryx splendens	94.40	226	7.31	55
Simenchelys parasiticus	92.43	1101	7.16	
Coral - mixed	88.50	0	6.86	
Merluccius paradoxus	66.86	138	5.18	60
Bassanago albescens	59.00	59	4.57	
Merluccius paradoxus	53.10	167	4.11	61
Lepidopus caudatus	35.40	39	2.74	
Genypterus capensis	27.53	10	2.13	56
Scyllorhinus capensis	27.53	26	2.13	
Todaropsis eblanae	27.34	155	2.12	59
Octopus magnificus	13.37	4	1.04	
Parapagurus pilosimanus	6.88	313	0.53	
Cyttus traversi	4.52	4	0.35	
Lucigadus ori	3.52	177	0.27	
Lophius vomerinus	3.44	4	0.27	57
Todaropsis eblanae	3.23	24	0.25	58
Caelorinchus matamua	3.17	2	0.25	
Whelks	2.36	94	0.18	
Caelorinchus braueri	0.87	18	0.07	
Epigonus telescopus	0.71	6	0.05	
Notacanthus sexspinis	0.65	4	0.05	
Malacocephalus laevis	0.61	2	0.05	
Bathypolypus valdiviae	0.36	8	0.03	
Rochinia sp.	0.15	22	0.01	
Starfish	0.12	4	0.01	
Lycoteuthis lorigera	0.09	2	0.01	
Tripterophycis gilchristi	0.04	2	0.00	
Etmopterus brachyurus	0.02	2	0.00	
C R A B S	0.02	4	0.00	
P O L Y C H A E T A	0.01	0	0.00	
Stoloteuthis sp.	0.01	2	0.00	
Diaphus sp.	0.01	2	0.00	
Total	1290.75		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 10  
 DATE :09/01/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 35°30.59  
 Lon E 19°48.98  
 start stop duration Purpose : 3  
 TIME :15:51:42 16:20:19 28.6 (min) Region : 6000  
 LOG : 4631.41 4632.85 1.4 Gear cond.: 0  
 FDEPTH: 167 165 Validity : 0  
 BDEPTH: 167 165 Speed : 3.0 km  
 Towing dir: 0° Wire out : 420 m Catch/hour: 667.90  
 Sorted : 319 Total catch: 318.59

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 12  
 DATE :10/01/2010 GEAR TYPE: BT NO: 21 POSITION:Lat S 36°43.36  
 Lon E 20°21.41  
 start stop duration Purpose : 3  
 TIME :07:32:04 08:02:30 30.4 (min) Region : 6000  
 LOG : 4737.65 4739.22 1.6 Gear cond.: 0  
 FDEPTH: 593 597 Validity : 0  
 BDEPTH: 593 597 Speed : 3.1 km  
 Towing dir: 0° Wire out : 1300 m Catch/hour: 224.46  
 Sorted : 114 Total catch: 113.84

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius capensis	155.14	210	23.23	96
Loligo reynaudi	136.27	702	20.40	109
Squalus megalops	83.86	0	12.56	
Chelidonichthys capensis	56.60	119	8.47	98
Loligo reynaudi	41.93	268	6.28	108
Callorhynchus capensis	33.54	13	5.02	
Zeus capensis	20.96	296	3.14	102
Lophius vomerinus	18.03	23	2.70	97
Holohalaelurus regani	13.63	40	2.04	
Chelidonichthys queketti	10.48	46	1.57	99
Todaropsis eblanae	8.57	199	1.28	107
Mustelus plumbae	8.39	4	1.26	
Sepia australis	7.76	172	1.16	
Helicolenus dactylopterus	7.71	94	1.16	105
Echinocardium sp.	7.63	99	1.14	
Trachurus capensis	6.62	38	0.99	106
Starfish	4.91	73	0.73	
PORIFERA (Sponges)	4.19	0	0.63	
Cynoglossus zanzibarensis	4.19	50	0.63	100
Merluccius paradoxus	4.19	15	0.63	101
Raja pullopectata	3.88	2	0.58	
Genypterus capensis	3.56	6	0.53	103
Raja straeleni	3.56	4	0.53	
Raja leoparden	3.42	6	0.51	
Merluccius capensis	3.35	386	0.50	104
Etrumeus whiteheadi	2.26	34	0.34	
Paracallionymus costatus	2.22	55	0.33	
Lepidopus caudatus	1.84	147	0.28	
B I V A L V E S	1.82	96	0.27	
Congiopodus spinifer	1.78	6	0.27	
Poroderma pantherinum	1.34	2	0.20	
JELLYFISH	1.30	2	0.19	
Cruriraja parcomaculata	0.99	2	0.15	
Palinurus gilchristi	0.84	2	0.13	110
Palinurus gilchristi	0.73	2	0.11	111
Ophichthus bennettai	0.17	2	0.03	
Sepia hieronis	0.15	2	0.02	
Champsodon capensis	0.04	4	0.01	
Mursia cristimanus	0.02	2	0.00	
Total	667.90		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Caelorinchus braueri	55.21	1104	24.60	
Merluccius paradoxus	51.27	49	22.84	114
Notacanthus sexspinis	30.56	199	13.62	
Etmopterus pusillus	27.60	63	12.30	
Oreosoma atlanticum	20.90	136	9.31	116
Lepidion capensis	9.86	16	4.39	
Chaeceon macphersoni	4.34	28	1.93	
Malacocephalus laevis	3.94	16	1.76	
Lophius vomerinus	3.94	2	1.76	115
Etmopterus brachyurus	3.15	10	1.41	
Photichthys argenteus	1.99	35	0.89	
Neoscopelus macrolepidotus	1.97	4	0.88	
Raja leoparden	1.58	2	0.70	
Helicolenus dactylopterus	1.38	16	0.61	117
Funchalia woodwardi	1.30	116	0.58	
Bassanago albescens	0.93	2	0.41	
Etmopterus sentosus	0.89	8	0.40	
Kuronezumia leonis	0.67	4	0.30	
Beryx splendens	0.65	4	0.29	
Trachyscorpia eschmeyeri	0.32	4	0.14	
Lycoteuthis lorigera	0.28	6	0.12	
Symbolophorus boops	0.24	20	0.11	
Tripterophycis gilchristi	0.23	8	0.10	
Perpsarsia kopua	0.19	4	0.08	
Selachophidium guentheri	0.19	2	0.08	
Caelorinchus simorhynchus	0.18	2	0.08	
Lucigadus ori	0.14	10	0.06	
Malacosteus niger	0.11	2	0.05	
Gymnoscopelus sp.	0.08	2	0.04	
Whelks	0.08	2	0.04	
Chauliodus sloani	0.05	4	0.02	
Idiacanthus atlanticus	0.05	2	0.02	
Aristaeomorpha foliacea	0.04	2	0.02	
Diaphus efulgens	0.04	2	0.02	
Diaphus sp.	0.03	8	0.01	
Nezumia sp.	0.03	6	0.01	
Neoscopelus macrolepidotus	0.02	4	0.01	0
ARGENTINIDAE	0.02	2	0.01	
Stoloteuthis sp.	0.02	4	0.01	
Caridea SA/MZ	0.01	2	0.01	
Teuthowenia sp.	0.00	2	0.00	
Antigonia sp., juvenile	0.00	2	0.00	
Total	224.46		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 11  
 DATE :10/01/2010 GEAR TYPE: BT NO: 21 POSITION:Lat S 36°45.06  
 Lon E 20°18.68  
 start stop duration Purpose : 3  
 TIME :04:31:05 05:01:10 30.1 (min) Region : 6000  
 LOG : 4729.00 4730.52 1.5 Gear cond.: 0  
 FDEPTH: 755 754 Validity : 0  
 BDEPTH: 755 754 Speed : 3.1 km  
 Towing dir: 0° Wire out : 1680 m Catch/hour: 644.06  
 Sorted : 644 Total catch: 644.06

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 13  
 DATE :10/01/2010 GEAR TYPE: BT NO: 21 POSITION:Lat S 36°37.33  
 Lon E 20°20.36  
 start stop duration Purpose : 3  
 TIME :09:33:06 10:03:45 30.7 (min) Region : 6000  
 LOG : 4745.47 4747.10 1.6 Gear cond.: 0  
 FDEPTH: 398 389 Validity : 0  
 BDEPTH: 398 389 Speed : 3.2 km  
 Towing dir: 0° Wire out : 900 m Catch/hour: 691.29  
 Sorted : 353 Total catch: 353.25

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Neocyttus rhomboidalis	685.94	1147	53.41	112
Caelorinchus braueri	193.42	1697	15.06	
Merluccius paradoxus	133.60	72	10.40	113
Etmopterus sp.	63.01	74	4.91	0
Histioteuthis miranda	61.81	52	4.81	
Etmopterus sp.	31.90	46	2.48	
Notacanthus sexspinis	25.32	146	1.97	
Lepidopus caudatus	19.94	40	1.55	
Ruvettus pretiosus	17.95	4	1.40	
Centrophorus squamosus	11.96	2	0.93	
Ancistrocheirus lesueurii	11.17	6	0.87	
Chaeceon macphersoni	9.97	44	0.78	
Nezumia sp.	5.98	285	0.47	
Trachyscorpia eschmeyeri	5.18	12	0.40	
Photichthys argenteus	1.87	14	0.15	
Selachophidium guentheri	0.84	8	0.07	
Nezumia sp.	0.74	4	0.06	0
Funchalia woodwardi	0.72	38	0.06	
Chauliodus sloani	0.66	14	0.05	
Lampadena sp.	0.45	12	0.04	
Gymnoscopelus sp.	0.32	4	0.02	
Sergia sp.	0.32	30	0.02	
Psychrolutes macrocephalus	0.28	4	0.02	
Hoplostethus mediterraneus	0.23	2	0.02	
Lycoteuthis lorigera	0.16	2	0.01	
Xenodermichthys copei	0.16	4	0.01	
Neoscopelus macrolepidotus	0.12	2	0.01	
Lepidion natalensis	0.08	2	0.01	
Rochinia sp.	0.04	6	0.00	
Hydrolagus sp.	0.04	2	0.00	
Argyrolepiscus sp.	0.02	2	0.00	
Bathyraxa smithii, juvenile	0.02	2	0.00	
Symbolophorus boops	0.02	2	0.00	
Diaphus sp.	0.01	4	0.00	
Diretmus argenteus, juvenile	0.01	2	0.00	
Total	1284.27		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	154.60	354	22.36	118
Merluccius paradoxus	113.50	221	16.42	119
Todaropsis eblanae	111.55	0	16.14	
Merluccius paradoxus	97.85	143	14.15	122
Caelorinchus simorhynchus	54.79	1096	7.93	
Helicolenus dactylopterus	41.10	315	5.94	124
Genypterus capensis	33.27	37	4.81	121
Lepidopus caudatus	21.53	29	3.11	
Squalus mitsukurii	15.07	10	2.18	
Lophius vomerinus	11.74	2	1.70	120
Scyliorhinus capensis	10.67	22	1.54	
Todaropsis eblanae	6.65	88	0.96	125
Todaropsis eblanae	6.46	78	0.93	126
Mauroliscus muelleri	5.09	0	0.74	
Malacocephalus laevis	3.03	25	0.44	
Cyttus traversi	2.35	4	0.34	
Lucigadus ori	0.72	4	0.10	
Chaeceon macphersoni	0.39	2	0.06	
Gorgonians	0.39	2	0.06	
Sea cucumber	0.20	2	0.03	
Parapagurus pilosimanus	0.17	16	0.02	
Exodromidia sp.	0.07	4	0.01	
Paracallionymus costatus	0.04	4	0.01	
Munidopsis sp.	0.04	2	0.01	
Rochinia sp.	0.02	4	0.00	
Starfish	0.02	4	0.00	
Total	691.29		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 14  
 DATE :10/01/2010 GEAR TYPE: BT NO: 21 POSITION:Lat S 36°25.81  
 Lon E 20°15.54  
 start stop duration Purpose : 3  
 TIME :11:45:30 12:15:49 30.3 (min) Region : 6000  
 LOG : 4758.31 4759.84 1.5 Gear cond.: 0  
 FDEPTH: 207 206 Validity : 0  
 BDEPTH: 207 206 Speed : 3.0 km  
 Towing dir: 0° Wire out : 520 m Catch/hour: 195.84  
 Sorted : 99 Total catch: 98.93

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 14  
 DATE :10/01/2010 GEAR TYPE: BT NO: 21 POSITION:Lat S 36°25.81  
 Lon E 20°15.54  
 start stop duration Purpose : 3  
 TIME :11:45:30 12:15:49 30.3 (min) Region : 6000  
 LOG : 4758.31 4759.84 1.5 Gear cond.: 0  
 FDEPTH: 207 206 Validity : 0  
 BDEPTH: 207 206 Speed : 3.0 km  
 Towing dir: 0° Wire out : 520 m Catch/hour: 195.84  
 Sorted : 99 Total catch: 98.93

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius capensis	51.47	26	26.28	128
Lepidopus caudatus	29.69	34	15.16	
Todaropsis eblanae	20.39	166	10.41	137
Helicolenus dactylopterus	17.82	135	9.10	130
Loligo reynaudi	16.03	48	8.19	138
Todaropsis eblanae	14.65	127	7.48	136
Parapagurus pilosimanus	11.88	1079	6.06	
Lophius vomerinus	9.90	10	5.05	129
Merluccius paradoxus	5.94	24	3.03	127
Zeus capensis	4.95	10	2.53	131
Scyliorhinus capensis	2.77	26	1.42	
Trachurus capensis	2.26	10	1.15	132
Raja straeleni	1.68	2	0.86	
Thyrsites atun	1.41	2	0.72	133
Gonorhynchus gonorhynchus	1.11	4	0.57	
Myxine capensis	0.87	2	0.44	
Chelidonichthys queketti	0.71	2	0.36	135
Anemones white	0.53	2	0.27	
Poroderma pantherinum	0.49	2	0.25	
Whelks	0.41	10	0.21	
Starfish	0.23	12	0.12	
Genypterus capensis	0.23	2	0.12	139
Cynoglossus zanzibarensis	0.20	4	0.10	134
Rossia enigmatica	0.07	2	0.04	
Bathypolypus valdiviae	0.06	2	0.03	
Exodromidia sp.	0.06	4	0.03	
JELLYFISH	0.02	2	0.01	
Munidopsis sp.	0.01	2	0.01	
Total	195.84		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 15  
 DATE :10/01/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 36°4.90  
 start stop duration Lon E 20°15.24  
 TIME :14:50:11 15:00:29 10.3 (min) Purpose : 3  
 LOG : 4779.95 4780.40 0.5 Region : 6000  
 FDEPTH: 166 166 Gear cond.: 8  
 BDEPTH: 166 166 Validity : 9  
 Towing dir: 0° Wire out : 420 m Speed : 2.1 km  
 Sorted : 0 Total catch: 0.00 Catch/hour: 0.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
N O C A T C H	0.00	0	0.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 16  
 DATE :11/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 35°57.46  
 start stop duration Lon E 20°43.84  
 TIME :04:52:55 05:22:04 29.1 (min) Purpose : 3  
 LOG : 4905.91 4907.37 1.5 Region : 6000  
 FDEPTH: 139 138 Gear cond.: 0  
 BDEPTH: 139 138 Validity : 0  
 Towing dir: 0° Wire out : 350 m Speed : 3.0 km  
 Sorted : 206 Total catch: 205.88 Catch/hour: 423.91

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius capensis	117.36	142	27.69	147
Pterogymnus lanarius	94.72	210	22.34	142
Merluccius capensis	78.24	117	18.46	148
Callorhynchus capensis	30.89	21	7.29	
Helicolenus dactylopterus	23.68	420	5.59	143
Raja straeleni	15.44	12	3.64	
Chelidonichthys capensis	10.30	12	2.43	141
Squalus megalops	8.03	21	1.89	
Zeus capensis	7.41	140	1.75	144
Loligo reynaudi	7.31	33	1.72	150
Raja wallacei	5.56	2	1.31	
JELLYFISH	4.94	8	1.17	
Pliotrema warreni	4.43	2	1.04	
Lophius vomerinus	4.12	4	0.97	140
Loligo reynaudi	3.87	27	0.91	149
Genypterus capensis	2.86	8	0.68	146
Coral - mixed	1.50	0	0.35	
Merluccius capensis	1.21	74	0.29	145
Congioodus spinifer	0.54	4	0.13	
Sepia australis	0.33	93	0.08	
Cynoglossus zanzibarensis	0.26	2	0.06	151
CORAL	0.25	0	0.06	
Selachophidium guentheri	0.14	2	0.03	
ANTHOZOA (Sea anemones)	0.14	4	0.03	
Starfish	0.11	4	0.03	
Paracallionymus costatus	0.10	23	0.02	
URCHINS	0.09	2	0.02	
Lagocephalus inermis	0.04	2	0.01	
Sepia typica	0.01	4	0.00	
Champsodon capensis	0.01	2	0.00	
Molluscs	0.00	2	0.00	
Total	423.91		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 17  
 DATE :11/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 35°38.12  
 start stop duration Lon E 20°47.67  
 TIME :07:37:51 08:05:45 27.9 (min) Purpose : 3  
 LOG : 4927.09 4928.60 1.5 Region : 6000  
 FDEPTH: 100 99 Gear cond.: 0  
 BDEPTH: 100 99 Validity : 0  
 Towing dir: 0° Wire out : 250 m Speed : 3.2 km  
 Sorted : 184 Total catch: 184.16 Catch/hour: 395.90

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Pterogymnus lanarius	131.14	793	33.12	152
Trachurus capensis	122.54	1023	30.95	153
Merluccius capensis	36.55	52	9.23	156
Loligo reynaudi	30.96	163	7.82	158
Squalus megalops	28.59	37	7.22	157
Loligo reynaudi	24.29	191	6.14	154
Callorhynchus capensis	10.75	4	2.72	
Chelidonichthys queketti	4.94	52	1.25	154
Gonorynchus gonorynchus	3.01	13	0.76	
Chelidonichthys capensis	2.36	2	0.60	155
Spondylosoma emarginatum	0.43	2	0.11	
Loligo reynaudi	0.28	178	0.07	159
C R A B S	0.03	2	0.01	
Sepia australis	0.02	2	0.00	
Starfish	0.02	2	0.00	
Total	395.90		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 18  
 DATE :11/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 35°26.07  
 start stop duration Lon E 20°45.96  
 TIME :12:32:16 12:47:22 15.1 (min) Purpose : 3  
 LOG : 4971.23 4971.98 0.7 Region : 6000  
 FDEPTH: 92 92 Gear cond.: 0  
 BDEPTH: 92 92 Validity : 0  
 Towing dir: 0° Wire out : 220 m Speed : 2.9 km  
 Sorted : 284 Total catch: 1005.72 Catch/hour: 3996.24

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Trachurus capensis	2169.54	14475	54.29	160
Pterogymnus lanarius	1021.19	10172	25.55	161
Gonorynchus gonorynchus	278.15	2209	6.96	
Isurus oxyrinchus	83.44	4	2.09	
Mustelus mustelus	83.44	12	2.09	
Chrysoblephus gibbiceps	66.56	72	1.67	164
Merluccius capensis	63.58	60	1.59	162
Loligo reynaudi	58.77	278	1.47	168
Loligo reynaudi	54.87	354	1.37	169
Etrumeus whiteheadi	35.76	842	0.89	
Pliotrema warreni	19.27	4	0.48	
Chelidonichthys capensis	15.89	12	0.40	163
Argyrozona argyrozona	12.72	16	0.32	166
Pagellus bellottii natalensis	12.32	75	0.31	
Rhabdosargus globiceps	9.74	16	0.24	165
Congioodus torvus	5.96	4	0.15	
Spondylosoma emarginatum	3.97	20	0.10	
Sepia simoniana	1.07	4	0.03	
Total	3996.24		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 19  
 DATE :11/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 35°11.56  
 start stop duration Lon E 20°34.68  
 TIME :15:11:05 15:40:15 29.2 (min) Purpose : 3  
 LOG : 4990.28 4991.71 1.4 Region : 6000  
 FDEPTH: 106 105 Gear cond.: 0  
 BDEPTH: 106 105 Validity : 0  
 Towing dir: 0° Wire out : 250 m Speed : 2.9 km  
 Sorted : 55 Total catch: 55.19 Catch/hour: 113.52

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius capensis	24.68	23	21.74	170
Callorhynchus capensis	24.68	16	21.74	
Squalus megalops	20.57	39	18.12	
Trachurus capensis	8.70	101	7.66	175
Loligo reynaudi	8.68	60	7.65	176
Loligo reynaudi	7.01	522	6.18	171
Loligo reynaudi	6.81	60	6.00	177
Chelidonichthys capensis	4.73	4	4.17	167
Pterogymnus lanarius	2.47	6	2.17	172
Thyrustes atun	1.23	2	1.09	173
Etrumeus whiteheadi	1.05	21	0.92	
JELLYFISH	0.80	14	0.71	
Argyrozona argyrozona	0.68	2	0.60	174
Gonorynchus gonorynchus	0.56	6	0.49	
PORIFERA (Sponges)	0.37	6	0.33	
Starfish	0.27	33	0.24	
Pagellus bellottii natalensis	0.21	2	0.18	
Mursia cristimanus	0.02	2	0.02	
Total	113.52		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 20  
 DATE :11/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 35°1.68  
 start stop duration Lon E 20°35.07  
 TIME :17:35:14 17:55:08 19.9 (min) Purpose : 3  
 LOG : 5008.92 5009.87 1.0 Region : 6000  
 FDEPTH: 110 110 Gear cond.: 0  
 BDEPTH: 110 110 Validity : 0  
 Towing dir: 0° Wire out : 280 m Speed : 2.9 km  
 Sorted : 44 Total catch: 43.55 Catch/hour: 131.38

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Pterogymnus lanarius	30.17	66	22.96	178
Merluccius capensis	28.81	109	21.93	183
Chelidonichthys capensis	14.33	42	10.91	179
Squalus megalops	11.61	33	8.84	
Callorhynchus capensis	11.46	6	8.72	
Chelidonichthys queketti	11.46	97	8.72	180
Mustelus palumbes	9.80	6	7.46	
Austroglossus pectoralis	5.46	39	4.16	181
Trachurus capensis	1.87	21	1.42	186
Genypterus capensis	1.33	6	1.01	185
Etrumeus whiteheadi	1.27	33	0.96	
Sepia australis	1.21	226	0.92	
Zeus capensis	0.94	12	0.72	187
Cynoglossus zanzibarensis	0.51	6	0.39	182
JELLYFISH	0.41	3	0.31	
Merluccius capensis	0.30	48	0.23	184
Loligo reynaudi	0.24	121	0.18	188
Starfish	0.17	33	0.13	
Goneplax angulata	0.03	3	0.03	
Total	131.38		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 21  
 DATE :12/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 34°39.73  
 start stop duration Lon E 20°31.39  
 TIME :03:53:11 04:23:11 30.0 (min) Purpose : 3  
 LOG : 5059.23 5060.56 1.3 Region : 6000  
 FDEPTH: 71 74 Gear cond.: 0  
 BDEPTH: 71 74 Validity : 0  
 Towing dir: 0° Wire out : 170 m Speed : 2.7 km  
 Sorted : 228 Total catch: 228.03 Catch/hour: 456.06

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius capensis	184.00	1008	40.35	191
Callorhynchus capensis	101.60	50	22.28	
Squalus megalops	51.00	84	11.18	
Chelidonichthys capensis	32.60	26	7.15	189
Etrumeus whiteheadi	28.00	1000	6.14	
Merluccius capensis	12.00	12	2.63	190
Squalus mitsukurii	9.40	2	2.06	
Raja pullopunctata	8.40	2	1.84	
JELLYFISH	8.20	10	1.80	
Mustelus palumbes	6.40	8	1.40	
Austroglossus pectoralis	5.60	24	1.23	192
Raja alba	3.40	2	0.75	
Zeus capensis	1.42	2	0.31	193
Merluccius capensis	0.96	94	0.21	195
Trachurus capensis	0.90	40	0.20	194
Halaelurus natalensis	0.88	2	0.19	
Lepidopus caudatus	0.44	60	0.10	
Loligo reynaudi	0.19	4	0.04	197
Sepia australis	0.12	32	0.03	
SALPS	0.12	4	0.03	
Chelidonichthys queketti	0.08	10	0.02	199
Loligo reynaudi	0.08	6	0.02	198
Arnoglossus capensis	0.05	2	0.01	
Loligo reynaudi	0.05	46	0.01	196
Mursia cristimanus	0.05	4	0.01	
Starfish	0.04	10	0.01	
Sepia typica	0.04	12	0.01	
Palinurus gilchristi	0.02	2	0.00	200
Paracallionymus costatus	0.01	4	0.00	
Nudibranchs	0.00	2	0.00	
Total	456.06		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 22  
 DATE :12/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 34°28.48  
 start stop duration Purpose : 3  
 TIME :07:11:26 07:42:02 30.6 (min) Lon E 20°54.86  
 LOG : 5084.55 5086.13 1.6 Region : 6000  
 FDEPTH: 61 69 Gear cond.: 0  
 BDEPTH: 61 69 Validity : 0  
 Towing dir: 0° Wire out : 180 m Speed : 3.1 km  
 Sorted : 297 Total catch: 287.28 Catch/hour: 563.10

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 25  
 DATE :12/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 35°5.29  
 start stop duration Purpose : 3  
 TIME :15:26:48 15:53:01 26.2 (min) Lon E 21°1.97  
 LOG : 5143.02 5144.37 1.4 Region : 6000  
 FDEPTH: 81 82 Gear cond.: 0  
 BDEPTH: 81 82 Validity : 0  
 Towing dir: 0° Wire out : 220 m Speed : 3.1 km  
 Sorted : 29 Total catch: 29.13 Catch/hour: 66.65

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Callorhynchus capensis	188.17	135	33.42	
Trachurus capensis	78.41	2240	13.92	203
Etrumeus whiteheadi	70.57	2139	12.53	
Merluccius capensis	35.28	1341	6.27	202
Galeichthys feliceps	29.40	59	5.22	
Raja alba, female	26.46	2	4.70	
Squalus megalops	25.48	73	4.53	
Raja alba, male	21.56	2	3.83	
Carcharhinus brachyurus	17.25	2	3.06	
Torpedo nobiliana	10.58	12	1.88	
Engraulis capensis	9.80	1960	1.74	
Merluccius capensis	9.80	1339	1.74	204
Poroderma africanum	8.04	4	1.43	
JELLYFISH	7.84	0	1.39	
Mustelus mustelus	7.25	4	1.29	
Austroglossus pectoralis	3.92	41	0.70	205
Raja straeleni	3.14	2	0.56	
Mustelus palumbes	2.16	2	0.38	
XXXXXXX	1.96	2	0.35	
Raja miraletus	1.47	2	0.26	
Raja alba, juvenile	0.98	2	0.17	
Loligo reynaudi	0.86	229	0.15	206
Raja pullopectata	0.73	2	0.13	
Starfish	0.65	0	0.11	
Scyllarides elisabethae	0.45	2	0.08	201
Chelidonichthys capensis	0.27	14	0.05	207
Sepia australis	0.21	25	0.04	
Amblyrhynchotes honkenii	0.16	2	0.03	
Cynoglossus zanzibarensis	0.09	8	0.02	208
Lepidopus caudatus	0.07	16	0.01	
E C H I N O D E R M A T A	0.06	8	0.01	
Sepia typica	0.01	4	0.00	
Champsodon capensis	0.01	2	0.00	
Molluscs	0.00	2	0.00	
ISOPODS	0.00	2	0.00	
Total	563.10		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Etrumeus whiteheadi	19.22	549	28.84	
Merluccius capensis	18.88	25	28.32	227
Trachurus capensis	12.81	133	19.23	230
JELLYFISH	5.31	7	7.97	
Squalus mitsukurii	2.38	2	3.57	
Pterogymnus lanarius	2.29	7	3.43	231
Squalus megalops	1.92	5	2.88	
Loligo reynaudi	1.85	410	2.78	229
Rhabdosargus globiceps	0.85	2	1.27	226
Chelidonichthys queketti	0.73	7	1.10	228
Gonorhynchus gonorhynchus	0.23	2	0.34	
Starfish	0.11	18	0.17	
Engraulis capensis	0.03	2	0.04	
Arnoglossus capensis	0.02	2	0.03	
Priapulida	0.02	2	0.02	
Total	66.65		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 23  
 DATE :12/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 34°40.44  
 start stop duration Purpose : 3  
 TIME :09:29:19 09:59:48 30.5 (min) Lon E 20°58.53  
 LOG : 5099.02 5100.60 1.6 Region : 6000  
 FDEPTH: 83 83 Gear cond.: 0  
 BDEPTH: 83 83 Validity : 0  
 Towing dir: 0° Wire out : 220 m Speed : 3.1 km  
 Sorted : 187 Total catch: 611.31 Catch/hour: 1203.37

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 26  
 DATE :12/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 35°14.77  
 start stop duration Purpose : 3  
 TIME :17:18:45 17:48:10 29.4 (min) Lon E 21°1.23  
 LOG : 5156.02 5157.47 1.5 Region : 6000  
 FDEPTH: 85 85 Gear cond.: 0  
 BDEPTH: 85 85 Validity : 0  
 Towing dir: 0° Wire out : 280 m Speed : 3.0 km  
 Sorted : 101 Total catch: 100.52 Catch/hour: 204.93

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Etrumeus whiteheadi	881.89	0	73.29	
Merluccius capensis	147.05	679	12.22	215
Merluccius capensis	41.34	39	3.44	214
Chelidonichthys capensis	33.46	96	2.78	213
Trachurus capensis	20.28	14	1.68	210
Callorhynchus capensis	18.70	12	1.55	
Merluccius capensis	13.60	864	1.13	221
Loligo reynaudi	12.68	2305	1.05	220
Austroglossus pectoralis	11.81	41	0.98	209
Raja straeleni	4.53	2	0.38	
Rhabdosargus globiceps	2.76	2	0.23	212
Trachurus capensis	2.56	128	0.21	219
Rhabdosargus globiceps	2.56	2	0.21	211
Argyrosomus inodorus	2.36	2	0.20	218
Loligo reynaudi	2.07	10	0.17	217
Squalus megalops	1.97	4	0.16	
Narke capensis	1.00	18	0.08	
JELLYFISH	0.98	10	0.08	
G A S T R O P O D S	0.83	120	0.07	0
Sepia australis	0.41	108	0.03	
Genypterus capensis	0.39	2	0.03	216
Lepidopus caudatus	0.04	10	0.00	
SALPS	0.04	10	0.00	
Sepia typica	0.03	10	0.00	
G A S T R O P O D S	0.03	30	0.00	
Total	1203.37		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius capensis	120.29	147	58.70	235
Pterogymnus lanarius	22.43	110	10.94	234
Loligo reynaudi	12.44	94	6.07	241
Squalus mitsukurii	10.19	4	4.97	
Loligo reynaudi	9.17	65	4.48	242
Rhabdosargus globiceps, male	6.12	6	2.98	
Trachurus capensis	4.49	0	2.19	
Raja alba	4.49	2	2.19	
Callorhynchus capensis	3.67	2	1.79	
Chelidonichthys queketti	2.24	35	1.09	237
Chelidonichthys capensis	1.73	2	0.85	236
Loligo reynaudi	1.71	212	0.84	239
Halaelurus natalensis	1.39	4	0.68	
Rhabdosargus globiceps, female	1.22	2	0.60	
Haploblepharus edwardsii	1.02	2	0.50	
Squalus megalops	0.71	2	0.35	
Austroglossus pectoralis	0.57	2	0.28	240
Narke capensis, male	0.51	2	0.25	
JELLYFISH	0.32	8	0.16	
Starfish	0.20	31	0.10	
Gonorhynchus gonorhynchus	0.02	2	0.01	
Lepidopus caudatus	0.01	2	0.00	
Inioteuthis capensis	0.00	2	0.00	
Total	204.93		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 24  
 DATE :12/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 34°57.13  
 start stop duration Purpose : 3  
 TIME :12:52:45 13:22:33 29.8 (min) Lon E 21°2.67  
 LOG : 5124.34 5125.89 1.6 Region : 6000  
 FDEPTH: 79 78 Gear cond.: 0  
 BDEPTH: 79 78 Validity : 0  
 Towing dir: 0° Wire out : 210 m Speed : 3.1 km  
 Sorted : 106 Total catch: 932.19 Catch/hour: 1876.26

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 27  
 DATE :13/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 35°29.73  
 start stop duration Purpose : 3  
 TIME :04:08:11 04:38:10 30.0 (min) Lon E 21°9.64  
 LOG : 5243.43 5244.85 1.4 Region : 6000  
 FDEPTH: 112 111 Gear cond.: 0  
 BDEPTH: 112 111 Validity : 0  
 Towing dir: 0° Wire out : 260 m Speed : 2.8 km  
 Sorted : 196 Total catch: 196.37 Catch/hour: 393.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Etrumeus whiteheadi	1787.32	54161	95.26	
JELLYFISH	32.20	0	1.72	
Loligo reynaudi	12.83	2240	0.68	225
Merluccius capensis	9.06	34	0.48	224
Mustelus mustelus	8.76	4	0.47	
Callorhynchus capensis	7.35	4	0.39	
Pterogymnus lanarius	6.04	14	0.32	222
Trachurus capensis	5.28	101	0.28	
Merluccius capensis	5.03	2	0.27	223
Engraulis capensis	1.77	127	0.09	
Starfish	0.36	76	0.02	
PORTUNIDAE	0.26	26	0.01	
Total	1876.26		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius capensis	222.15	290	56.53	245
Merluccius capensis	100.07	120	25.46	244
Squalus megalops	18.41	56	4.69	
Raja straeleni	11.01	6	2.80	
Loligo reynaudi, female	8.01	0	2.04	
Pterogymnus lanarius	7.10	16	1.81	252
Loligo reynaudi	7.00	124	1.78	255
Chelidonichthys capensis	3.40	4	0.87	246
URCHINS	3.26	20	0.83	
Austroglossus pectoralis	2.24	8	0.57	247
JELLYFISH	1.74	6	0.44	
Lophius vomerinus	1.48	2	0.38	243
Loligo reynaudi	1.46	48	0.37	253
Zeus capensis	1.32	34	0.34	249
Merluccius capensis	1.22	62	0.31	248
Rhabdosargus globiceps	0.68	2	0.17	251
Genypterus capensis	0.62	2	0.16	250
Lepidopus caudatus	0.40	8	0.10	
Trachurus capensis	0.28	2	0.07	256
Sepia australis	0.24	62	0.06	
Nudibranchs	0.22	10	0.06	
Etrumeus whiteheadi	0.20	4	0.05	
Starfish	0.17	28	0.04	
Paracallionymus costatus	0.11	36	0.03	
Chelidonichthys queketti	0.08	2	0.02	257
Champsodon capensis	0.06	14	0.02	
Mursia cristimanus	0.06	6	0.02	
Total	393.00		100.00	



R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 28  
 DATE :13/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 35°46.57  
 start stop duration Purpose : 3  
 TIME :07:19:17 07:49:11 29.9 (min) Region : 6000  
 LOG : 5264.76 5266.10 1.4 Gear cond.: 0  
 FDEPTH: 129 130 Validity : 0  
 BDEPTH: 129 130 Speed : 2.7 km  
 Towing dir: 0° Wire out : 330 m Catch/hour: 571.89  
 Sorted : 285 Total catch: 284.99

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 31  
 DATE :14/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 35°11.77  
 start stop duration Purpose : 3  
 TIME :08:05:36 08:37:27 30.9 (min) Region : 6000  
 LOG : 5398.77 5400.03 1.3 Gear cond.: 0  
 FDEPTH: 128 129 Validity : 0  
 BDEPTH: 128 129 Speed : 2.5 km  
 Towing dir: 0° Wire out : 330 m Catch/hour: 439.78  
 Sorted : 226 Total catch: 226.19

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius capensis	192.64	239	33.69	261
Etrumeus whiteheadi	128.43	2254	22.46	
Merluccius capensis	90.30	144	15.79	262
Squalus megalops	36.82	102	6.44	
Loligo reynaudi	29.10	281	5.09	266
Lepidopus caudatus	20.07	12	3.51	
Loligo reynaudi	16.45	189	2.88	267
URCHINS	9.63	275	1.68	
Callorhynchus capensis	9.23	2	1.61	
Mustelus palumbes	8.03	6	1.40	
Merluccius capensis	5.56	151	0.97	263
Zeus capensis	5.42	96	0.95	264
Lophius vomerinus	5.22	2	0.91	258
Genypteris capensis	4.82	12	0.84	265
Raja straeleni	4.62	8	0.81	
JELLYFISH	3.01	6	0.53	
Holohalaelurus regani	0.54	2	0.09	
Trachurus capensis	0.52	4	0.09	259
Chelidonichthys queketti	0.44	4	0.08	260
Starfish	0.38	8	0.07	
Paracallionymus costatus	0.22	36	0.04	
Lepidopus caudatus	0.16	6	0.03	0
Congiopodus spinifer	0.13	2	0.02	
Nepia australis	0.07	12	0.01	
Nudibranchs	0.05	4	0.01	
Molluscs	0.05	4	0.00	
Rochinia sp.	0.01	4	0.00	
ISOPODS	0.01	2	0.00	
Pterygosquilla armata capensis	0.01	2	0.00	
Total	571.89		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Squalus megalops	194.43	490	44.21	293
Loligo reynaudi	54.44	257	12.38	305
Squalus megalops	48.61	144	11.05	294
Loligo reynaudi	46.66	313	10.61	303
Merluccius capensis	13.03	14	2.96	292
Mustelus palumbes	11.86	19	2.70	
Callorhynchus capensis	11.86	4	2.70	
Zeus capensis	11.67	86	2.65	296
Pterogymsus lanarius	7.97	17	1.81	297
Chelidonichthys queketti	7.78	62	1.77	295
Mustelus mustelus	5.35	2	1.22	
URCHINS	3.89	389	0.88	0
Congiopodus torvus	3.77	4	0.86	
Loligo reynaudi	3.62	255	0.82	304
Chelidonichthys capensis	3.11	4	0.71	301
Lophius vomerinus	1.98	2	0.45	299
Trachurus capensis	1.94	12	0.44	298
URCHINS	1.85	8	0.42	
Raja wallacei	1.59	4	0.36	
Sepia australis	0.78	111	0.18	
Starfish	0.78	49	0.18	
Scyliorhinus capensis	0.74	4	0.17	
Holohalaelurus regani	0.72	2	0.16	
Helicolenus dactylopterus	0.58	6	0.13	300
Congiopodus spinifer	0.36	4	0.08	
Etrumeus whiteheadi	0.14	2	0.03	
Todaropsis eblanae	0.13	2	0.03	302
Nudibranchs	0.06	10	0.01	
Mursia cristimanus	0.04	4	0.01	
Arnoglossus capensis	0.03	2	0.01	
Rochinia sp.	0.01	6	0.00	
Notopogon macrosolen	0.01	2	0.00	
Total	439.78		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 29  
 DATE :13/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 36°14.21  
 start stop duration Purpose : 3  
 TIME :13:59:15 14:29:43 30.5 (min) Region : 6000  
 LOG : 5310.77 5312.14 1.4 Gear cond.: 0  
 FDEPTH: 161 166 Validity : 0  
 BDEPTH: 161 166 Speed : 2.7 km  
 Towing dir: 0° Wire out : 400 m Catch/hour: 1306.57  
 Sorted : 309 Total catch: 663.52

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 32  
 DATE :14/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 34°51.24  
 start stop duration Purpose : 3  
 TIME :12:21:29 12:51:34 30.1 (min) Region : 6000  
 LOG : 5424.49 5425.77 1.3 Gear cond.: 0  
 FDEPTH: 105 103 Validity : 0  
 BDEPTH: 105 103 Speed : 2.6 km  
 Towing dir: 0° Wire out : 260 m Catch/hour: 620.72  
 Sorted : 311 Total catch: 311.29

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Callanthias legras	795.54	8375	60.89	
Pterogymsus lanarius	143.75	246	11.00	269
Merluccius capensis	124.06	89	9.49	276
Helicolenus dactylopterus	74.04	1402	5.67	275
Loligo reynaudi	27.88	181	2.13	278
Zeus capensis	20.68	57	1.58	270
Loligo reynaudi	19.85	150	1.52	279
Genypteris capensis	19.69	26	1.51	268
Squalus megalops	17.13	4	1.31	
Congiopodus torvus	15.16	14	1.16	
Merluccius capensis	13.78	12	1.05	277
Raja straeleni	9.85	4	0.75	
Etrumeus whiteheadi	6.30	87	0.48	
Lophius vomerinus	3.54	4	0.27	272
Palinurus gilchristi	2.56	12	0.20	274
Palinurus gilchristi	2.21	10	0.17	273
Chelidonichthys queketti	2.05	8	0.16	
Lepidopus caudatus	1.20	4	0.09	
Chelidonichthys capensis	1.18	2	0.09	271
ANTHOZOA (Sea anemones)	1.18	213	0.09	
Cheilodactylus pixi	0.98	4	0.08	
Scyliorhinus capensis	0.73	4	0.06	
Sepia australis	0.71	47	0.05	
PORIFERA (Sponges)	0.58	8	0.04	
JELLYFISH	0.53	0	0.04	
Sepia hieronis	0.50	16	0.04	
Starfish	0.39	8	0.03	
Starfish	0.32	16	0.02	0
C R A B S	0.20	16	0.02	
Priapulida	0.01	8	0.00	
Total	1306.57		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius capensis	203.39	385	32.77	312
Merluccius capensis	151.55	267	24.41	313
Pterogymsus lanarius	111.67	273	17.99	306
Etrumeus whiteheadi	43.87	1097	7.07	
Loligo reynaudi	23.93	4861	3.85	309
Callorhynchus capensis	19.94	10	3.21	
Loligo reynaudi	14.16	86	2.28	311
Loligo reynaudi	13.96	112	2.25	310
JELLYFISH	8.97	6	1.45	
Squalus megalops	5.98	16	0.96	
Chelidonichthys capensis	5.98	12	0.96	307
Zeus capensis	4.09	58	0.68	315
Raja straeleni	3.99	2	0.64	
Mustelus palumbes	2.19	2	0.35	
Trachurus capensis	1.95	18	0.31	314
URCHINS	1.04	6	0.17	
Starfish red	1.00	16	0.16	
Gonorhynchus gonorhynchus	1.00	2	0.16	
Nudibranchs	0.56	82	0.09	
Sepia australis	0.37	26	0.06	
Chelidonichthys queketti	0.32	4	0.05	308
Mursia cristimanus	0.25	12	0.04	
Cynoglossus zanzibarensis	0.24	2	0.04	316
URCHINS	0.10	2	0.02	0
Arnoglossus capensis	0.09	2	0.01	
Starfish	0.06	2	0.01	
Gorgonians	0.03	4	0.00	
CENTROLOPHIDAE, juvenile	0.02	2	0.00	
Rochinia sp.	0.01	2	0.00	
Paracallionymus costatus	0.01	2	0.00	
Total	620.71		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 30  
 DATE :14/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 35°31.12  
 start stop duration Purpose : 3  
 TIME :04:44:21 05:14:17 29.9 (min) Region : 6000  
 LOG : 5374.01 5375.43 1.4 Gear cond.: 0  
 FDEPTH: 174 172 Validity : 0  
 BDEPTH: 174 172 Speed : 2.9 km  
 Towing dir: 0° Wire out : 435 m Catch/hour: 241.37  
 Sorted : 120 Total catch: 120.45

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 33  
 DATE :14/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 34°39.15  
 start stop duration Purpose : 3  
 TIME :15:42:39 16:12:12 29.6 (min) Region : 6000  
 LOG : 5443.12 5444.39 1.3 Gear cond.: 0  
 FDEPTH: 88 89 Validity : 0  
 BDEPTH: 88 89 Speed : 2.6 km  
 Towing dir: 0° Wire out : 242 m Catch/hour: 236.84  
 Sorted : 117 Total catch: 116.64

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Helicolenus dactylopterus	86.17	635	35.70	282
Loligo reynaudi	31.06	134	12.87	289
Lophius vomerinus	28.06	10	11.62	280
Loligo reynaudi	22.85	134	9.46	288
Squalus megalops	20.64	34	8.55	
Trachurus capensis	10.02	58	4.15	281
Chelidonichthys queketti	9.22	52	3.82	287
Pterogymsus lanarius	7.41	14	3.07	283
Merluccius capensis	4.81	2	1.99	284
Gonorhynchus gonorhynchus	4.81	16	1.99	
Congiopodus torvus	4.41	2	1.83	
Raja wallacei	4.01	2	1.66	
Squalus acanthias	3.81	12	1.58	
Cynoglossus zanzibarensis	1.00	4	0.42	285
Genypteris capensis	0.80	4	0.33	286
Poroderma pantherinum	0.74	2	0.31	
Todaropsis eblanae	0.46	4	0.19	291
Sepia australis	0.42	42	0.17	
Todaropsis eblanae	0.23	2	0.10	290
PORIFERA (Sponges)	0.14	2	0.06	
G A S T R O P O D S	0.05	10	0.02	
URCHINS	0.05	6	0.02	
Starfish	0.04	2	0.02	
Arnoglossus capensis	0.04	2	0.02	
Mursia cristimanus	0.03	6	0.01	
Parapagurus dimorphus	0.03	6	0.01	
Gorgonians	0.03	4	0.01	
P O L Y C H A E T A	0.01	4	0.00	
Nudibranchs	0.01	2	0.00	
Paracallionymus costatus	0.01	2	0.00	
Rochinia sp.	0.00	2	0.00	
Total	241.37		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius capensis	87.31	132	36.86	319
Merluccius capensis	62.94	77	26.58	318
Merluccius capensis	46.70	325	19.72	317
Loligo reynaudi	9.95	1029	4.20	325
Etrumeus whiteheadi	7.31	146	3.09	
Chelidonichthys capensis	3.05	2	1.29	324
Callorhynchus capensis	2.11	2	0.89	
Chelidonichthys queketti	2.03	20	0.86	321
Austroglossus pectoralis	1.83	10	0.77	320
Black sand dollar	1.83	10	0.77	
JELLYFISH	1.62	0	0.69	
Sygnathus acus	1.46	85	0.62	
Soft corals	1.42	0	0.60	
Cynoglossus zanzibarensis	1.42	12	0.60	322
Mursia cristimanus	1.12	28	0.47	
Rhabdosargus globiceps	1.02	2	0.43	323
Zeus capensis	0.81	16	0.34	327
Sepia australis	0.50	41	0.21	
Amblyrhynchotes honkenii	0.49	2	0.21	
Starfish red	0.43	6	0.18	
Sardinops ocellatus	0.37	2	0.16	
Trachurus capensis	0.34	2	0.14	326
Nudibranchs	0.25	49	0.11	
Starfish red	0.21	2	0.09	0
Starfish	0.11	12	0.05	0
Starfish	0.09	2	0.04	
Arnoglossus capensis	0.06	2	0.03	
G A S T R O P O D S	0.04	6	0.02	
Paracallionymus costatus	0.01	2	0.01	
Total	236.84		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 34  
 DATE :15/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 34°6.50  
 start stop duration Purpose : 3  
 TIME :03:53:53 04:23:31 29.6 (min) Lon E 22°52.34  
 LOG : 5538.07 5539.60 1.5 Region : 6000  
 FDEPTH: 57 58 Gear cond.: 0  
 BDEPTH: 57 58 Validity : 0  
 Towing dir: 0° Wire out : 140 m Speed : 3.1 km  
 Sorted : 74 Total catch: 73.82 Catch/hour: 149.44  
 SPECIES CATCH/HOUR % OF TOT. C SAMP

SPECIES	weight	numbers	% OF TOT. C	SAMP
Callorhynchus capensis	32.39	16	21.67	
Merluccius capensis	31.78	1119	21.27	333
Carcharhinus brachyurus	20.24	2	13.55	
Carcharhinus brachyurus, male	17.00	2	11.38	
Squalus mitsukurii	11.34	6	7.59	
Merluccius capensis	9.11	73	6.10	332
Merluccius capensis	8.10	6	5.42	329
Merluccius capensis	4.68	510	3.13	334
Genypterus capensis	2.02	4	1.35	328
Poroderma africanum	2.02	2	1.35	
Galeichthys feliceps	1.62	4	1.08	
Halaelurus natalensis	1.56	6	1.04	
Austroglossus pectoralis	1.21	22	0.81	331
Cynoglossus zanzibarensis	1.17	30	0.79	330
Haploblepharus edwardsii	0.81	2	0.54	
Scyllarides elisabethae	0.77	2	0.51	
Loligo reynaudi	0.51	2	0.34	336
Sea cucumber	0.45	128	0.30	
Torpedo fuscomaculata	0.40	2	0.27	
Narke capensis	0.38	2	0.26	
Sepia australis	0.35	18	0.24	
Squalus megalops	0.26	2	0.18	
Mursia cristimanus	0.20	4	0.14	
Gonorhynchus gonorhynchus	0.20	2	0.14	
Loligo reynaudi	0.19	10	0.13	337
Starfish red	0.16	2	0.11	
Starfish	0.12	8	0.08	
Etrumeus whiteheadi	0.10	0	0.07	
Nudibranchs	0.10	8	0.07	
G A S T R O P O D S	0.09	12	0.06	
Trachurus capensis	0.07	2	0.05	335
Notopogon macrosolen	0.01	2	0.00	
Arnoglossus capensis	0.01	2	0.00	
Total	149.44		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 35  
 DATE :15/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 34°15.82  
 start stop duration Purpose : 3  
 TIME :06:06:08 06:37:01 30.9 (min) Lon E 22°51.70  
 LOG : 5550.52 5552.06 1.5 Region : 6000  
 FDEPTH: 89 88 Gear cond.: 0  
 BDEPTH: 89 88 Validity : 0  
 Towing dir: 0° Wire out : 240 m Speed : 3.0 km  
 Sorted : 145 Total catch: 145.13 Catch/hour: 282.00  
 SPECIES CATCH/HOUR % OF TOT. C SAMP

SPECIES	weight	numbers	% OF TOT. C	SAMP
Pterogymnus lanarius	85.49	152	30.32	338
Merluccius capensis	68.01	82	24.12	341
Callorhynchus capensis	35.95	21	12.75	
Merluccius capensis	31.09	27	11.02	340
Merluccius capensis	23.32	152	8.27	339
Loligo reynaudi	8.35	861	2.96	342
PORIFERA (Sponges)	7.38	218	2.62	
Mustelus palumbes	6.02	2	2.14	
Loligo reynaudi	3.91	23	1.38	347
Squalus megalops	2.33	4	0.83	
Loligo reynaudi	1.34	6	0.48	346
Zeus capensis	1.20	14	0.43	344
Starfish	1.18	12	0.42	0
Etrumeus whiteheadi	0.96	12	0.34	
Engraulis capensis	0.85	66	0.30	
Austroglossus pectoralis	0.82	4	0.29	345
Galeichthys feliceps	0.74	2	0.26	
Nudibranchs	0.54	35	0.19	
Chelidonichthys queketti	0.47	2	0.17	343
Sea cucumber	0.44	167	0.16	
Starfish	0.41	35	0.14	
Gonorhynchus gonorhynchus	0.33	4	0.12	
Scyllorhinus capensis	0.33	2	0.12	
Black sand dollar	0.30	2	0.11	
Sepia australis	0.15	12	0.05	
Paracallionymus costatus	0.05	8	0.02	
G A S T R O P O D S	0.02	4	0.01	
Notopogon macrosolen	0.01	2	0.00	
Rochinia sp.	0.01	2	0.00	
Pycnogonid	0.00	2	0.00	
Total	282.00		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 36  
 DATE :15/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 34°26.52  
 start stop duration Purpose : 3  
 TIME :08:54:10 09:24:33 30.4 (min) Lon E 22°52.77  
 LOG : 5568.05 5569.51 1.5 Region : 6000  
 FDEPTH: 107 108 Gear cond.: 0  
 BDEPTH: 107 108 Validity : 0  
 Towing dir: 0° Wire out : 280 m Speed : 2.9 km  
 Sorted : 650 Total catch: 649.84 Catch/hour: 1283.43  
 SPECIES CATCH/HOUR % OF TOT. C SAMP

SPECIES	weight	numbers	% OF TOT. C	SAMP
Merluccius capensis	452.27	624	35.24	349
Pterogymnus lanarius	338.71	729	26.39	348
Merluccius capensis	191.57	247	14.93	354
Merluccius capensis	110.60	111	8.62	353
Squalus megalops, male	102.70	275	8.00	
Etrumeus whiteheadi	18.76	361	1.46	
Sea cucumber	12.11	3028	0.94	
Loligo reynaudi	9.28	820	0.72	355
Loligo reynaudi	7.58	59	0.59	356
Squalus megalops, female	6.71	22	0.52	
Chelidonichthys capensis	4.34	4	0.34	350
Black sand dollar	4.27	57	0.33	
Raja straeleni	3.85	6	0.30	
Congio podus torvus	3.75	2	0.29	
Callorhynchus capensis	3.44	2	0.27	
Zeus capensis	2.76	20	0.22	351
Congio podus spinifer	2.11	12	0.16	
Scyllorhinus capensis	1.88	12	0.15	
Loligo reynaudi	1.72	18	0.13	357
Starfish	1.48	69	0.12	
Nudibranchs	0.71	38	0.06	
Genypterus capensis	0.59	2	0.05	358
Sepia australis	0.45	36	0.03	
Trachurus capensis	0.40	4	0.03	352
Engraulis capensis	0.31	16	0.02	
Molluscs	0.27	12	0.02	
Raja pullopunctata	0.25	2	0.02	
Mursia cristimanus	0.20	6	0.02	
Dromidia sp.	0.12	4	0.01	
Paracallionymus costatus	0.11	16	0.01	
Helicolenus dactylopterus	0.09	2	0.01	359
ISOPODS	0.02	2	0.00	
Total	1283.43		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 37  
 DATE :15/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 34°39.59  
 start stop duration Purpose : 3  
 TIME :12:51:19 13:21:57 30.6 (min) Lon E 22°56.09  
 LOG : 5596.70 5598.11 1.4 Region : 6000  
 FDEPTH: 119 118 Gear cond.: 0  
 BDEPTH: 119 118 Validity : 0  
 Towing dir: 0° Wire out : 280 m Speed : 2.8 km  
 Sorted : 244 Total catch: 679.53 Catch/hour: 1331.11  
 SPECIES CATCH/HOUR % OF TOT. C SAMP

SPECIES	weight	numbers	% OF TOT. C	SAMP
Pterogymnus lanarius	575.91	1410	43.27	360
Merluccius capensis	290.89	259	21.85	370
Squalus megalops, male	156.32	494	11.74	
Merluccius capensis	132.22	135	9.93	369
Squalus megalops, female	102.84	288	7.73	
Loligo reynaudi	17.04	100	1.28	371
Galeorhinus galeus	9.99	2	0.75	
Rhabdosargus globiceps, male	7.84	8	0.59	
Chelidonichthys capensis	7.84	8	0.59	361
Rhabdosargus globiceps	5.29	8	0.40	366
Raja straeleni	5.00	6	0.38	
Lophius vomerinus	4.31	2	0.32	368
Mustelus mustelus	3.13	2	0.24	
Congio podus spinifer	2.94	24	0.22	
Mustelus palumbes	2.94	4	0.22	
Argyrozona argyrozona	2.55	4	0.19	362
Loligo reynaudi	2.35	29	0.18	372
Zeus capensis	0.94	2	0.07	363
Genypterus capensis	0.59	2	0.04	367
Chelidonichthys queketti	0.20	2	0.01	364
Total	1331.11		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 38  
 DATE :15/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 34°57.80  
 start stop duration Purpose : 3  
 TIME :16:31:27 17:01:39 30.2 (min) Lon E 22°57.94  
 LOG : 5624.26 5625.66 1.4 Region : 6000  
 FDEPTH: 174 166 Gear cond.: 0  
 BDEPTH: 174 166 Validity : 0  
 Towing dir: 0° Wire out : 435 m Speed : 2.8 km  
 Sorted : 126 Total catch: 126.19 Catch/hour: 250.70  
 SPECIES CATCH/HOUR % OF TOT. C SAMP

SPECIES	weight	numbers	% OF TOT. C	SAMP
Squalus megalops	63.58	141	25.36	373
Helicolenus dactylopterus	29.60	157	11.81	377
Lophius vomerinus	27.42	10	10.94	376
Merluccius capensis	27.42	28	10.94	381
Loligo reynaudi	21.06	121	8.40	384
Loligo reynaudi	16.99	77	6.78	385
Squalus megalops	13.91	32	5.55	374
Pterogymnus lanarius	10.53	18	4.20	380
Chelidonichthys queketti	10.53	81	4.20	378
Merluccius paradoxus	9.14	34	3.65	379
Raja wallacei	5.17	2	2.06	
Holohalaelurus regani	2.78	8	1.11	
Chelidonichthys capensis	1.69	2	0.67	375
Congio podus spinifer	1.59	12	0.63	
Todaropsis eblanai	1.13	6	0.45	387
Cynoglossus zanzibarensis	1.11	6	0.44	383
Sepia australis	1.05	107	0.42	
Gonorhynchus gonorhynchus	0.99	2	0.40	
Starfish	0.87	36	0.35	
URCHINS	0.79	10	0.32	
Trachurus capensis	0.60	2	0.24	386
Parapagurus dimorphus	0.58	123	0.23	
Arnoglossus capensis	0.46	6	0.19	
Scyllorhinus capensis	0.40	2	0.16	
Cruriraja parcomaculata	0.38	2	0.15	
Zeus capensis	0.28	6	0.11	382
Nudibranchs	0.26	24	0.11	
Gnathopis capensis	0.11	2	0.05	
Sepia hieronis	0.09	0	0.04	
Mursia cristimanus	0.08	4	0.03	
ANTHOZOA (Sea anemones)	0.06	4	0.02	
G A S T R O P O D S	0.06	4	0.02	
Total	250.70		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 39  
 DATE :16/01/2010 GEAR TYPE: BT NO: 21 POSITION:Lat S 35°0.39  
 start stop duration Purpose : 3  
 TIME :05:24:39 05:55:28 30.8 (min) Lon E 24°10.61  
 LOG : 5726.94 5728.42 1.5 Region : 6000  
 FDEPTH: 883 877 Gear cond.: 0  
 BDEPTH: 883 877 Validity : 0  
 Towing dir: 0° Wire out : 1820 m Speed : 2.9 km  
 Sorted : 236 Total catch: 236.35 Catch/hour: 460.13

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 41  
 DATE :16/01/2010 GEAR TYPE: BT NO: 21 POSITION:Lat S 34°49.76  
 start stop duration Purpose : 3  
 TIME :11:53:20 12:23:42 30.4 (min) Lon E 24°2.13  
 LOG : 5766.09 5767.57 1.5 Region : 6000  
 FDEPTH: 264 262 Gear cond.: 0  
 BDEPTH: 264 262 Validity : 0  
 Towing dir: 0° Wire out : 650 m Speed : 2.9 km  
 Sorted : 246 Total catch: 246.21 Catch/hour: 486.41

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Caelorinchus braueri	91.50	839	19.89	
Raja doutrei	67.75	10	14.72	
Centroscymnus coelelepis	67.16	18	14.60	
Nezumia sp.	64.24	960	13.96	
Mesobius antipodum	41.86	45	9.10	388
URCHINS	27.26	580	5.92	
Merluccius paradoxus	14.02	19	3.05	389
Lepidion capensis	10.71	33	2.33	
Synagrops japonicus	10.59	49	2.30	
Stomoxys sp.	10.12	19	2.20	
Neocyttus rhomboidalis	10.12	23	2.20	390
Apristurus saldanha	8.18	8	1.78	
Hydrolagus sp.	7.40	19	1.61	
Nezumia sp.	5.37	16	1.17	0
Diastobrachius capensis	5.20	10	1.13	
Alepocephalus sp.	3.11	4	0.68	
Notacanthus sexspinis	2.32	18	0.50	
Psychrolutes macrocephalus	2.12	2	0.46	
Histioteuthis bonnellii	1.91	2	0.42	
Sea cucumber	1.77	6	0.38	
Kuronezumia leonis	1.28	8	0.28	
RAJIDAE	1.06	14	0.23	
G A S T R O P O D S	0.67	23	0.15	0
Aristeus varidens	0.56	84	0.12	
Chaceon maritae	0.56	2	0.12	
Malacosteus niger	0.52	23	0.11	
G A S T R O P O D S	0.51	10	0.11	
Starfish	0.29	0	0.06	
Lycoteuthis lorigera	0.27	4	0.06	
Selachophidium guentheri	0.27	2	0.06	
Aristeus sp.	0.27	10	0.06	
JELLYFISH	0.17	8	0.04	
Neoscopelus macrolepidotus	0.12	2	0.03	
ANTHOZOA (Sea anemones)	0.10	2	0.02	
Chauliodus sloani	0.09	4	0.02	
Shark eggs	0.08	6	0.02	
PASIPHAIDAE	0.08	8	0.02	0
Rosenblattia robusta	0.06	2	0.01	
Diaphus sp.	0.05	6	0.01	
Spirula spirula	0.04	2	0.01	
Gymnoscopelus sp.	0.04	6	0.01	
Serrivomer beanii	0.03	2	0.01	
MELAMPHIDAE	0.03	2	0.01	
Sternoptyx sp.	0.02	2	0.00	
PASIPHAIDAE	0.02	2	0.00	
Stoloteuthis sp.	0.02	2	0.00	
Avocettina acuticeps	0.01	2	0.00	
Gnatophausia ingens	0.01	2	0.00	
CARAPIDAE	0.00	2	0.00	
ISOPODS	0.00	2	0.00	
Argyropelecus aculeatus	0.00	2	0.00	
Total	459.91		99.95	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Caelorinchus simorhynchus	183.73	1027	37.77	
Helicolenus dactylopterus	75.07	279	15.43	402
Merluccius paradoxus	73.10	235	15.03	409
Merluccius capensis	45.44	22	9.34	405
Genypterus capensis	41.49	61	8.53	401
Zeus capensis	29.63	130	6.09	404
Lophius vomerinus	17.78	8	3.66	403
Todaropsis eblanae	4.03	24	0.83	408
Todaropsis eblanae	2.67	24	0.55	407
Chelidonichthys queketti	2.57	12	0.53	406
Scyliorhinus capensis	2.21	10	0.45	
Squalus megalops	2.17	2	0.45	
Holohalaelurus regani	1.76	12	0.36	
Starfish	1.22	40	0.25	
Raja wallacei	0.91	2	0.19	
XXXXXXXX	0.59	69	0.12	
G A S T R O P O D S	0.49	24	0.10	
Cynoglossus zanzibarensis	0.38	4	0.08	410
Exodromidia sp.	0.24	20	0.05	
URCHINS	0.23	4	0.05	
Mursia cristimanus	0.19	14	0.04	
Parapagurus dimorphus	0.16	18	0.03	
Rossia enigmatica	0.14	8	0.03	
Starfish	0.07	2	0.01	0
Sepia hieronisi	0.06	4	0.01	
Xenolepidichthys dagleishi	0.03	2	0.01	
Champsodon capensis	0.02	2	0.00	
Shark eggs	0.01	8	0.00	
P O L Y C H A E T A	0.00	2	0.00	
Total	486.41		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 42  
 DATE :16/01/2010 GEAR TYPE: BT NO: 21 POSITION:Lat S 34°42.22  
 start stop duration Purpose : 3  
 TIME :14:57:35 15:20:15 22.7 (min) Lon E 23°52.57  
 LOG : 5785.18 5786.24 1.1 Region : 6000  
 FDEPTH: 139 135 Gear cond.: 0  
 BDEPTH: 139 135 Validity : 0  
 Towing dir: 0° Wire out : 350 m Speed : 2.8 km  
 Sorted : 322 Total catch: 321.63 Catch/hour: 851.25

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Pterogymmus lanarius	473.75	1199	55.65	415
Helicolenus dactylopterus	100.57	611	11.81	416
Merluccius capensis	89.99	74	10.57	414
Raja alba, male	79.40	3	9.33	
Squalus megalops	40.49	58	4.76	
Loligo reynaudi	16.54	69	1.94	419
Callanthias legras	12.97	138	1.52	
Loligo reynaudi	7.68	45	0.90	420
Congiopodus spinifer	5.29	24	0.62	
Congiopodus torvus	4.63	3	0.54	
Palinurus gilchristi	2.81	5	0.33	411
Raja straeleni	2.65	3	0.31	
Palinurus gilchristi	2.65	5	0.31	412
Holohalaelurus regani	2.49	5	0.29	
URCHINS	2.22	85	0.26	
Genypterus capensis	1.91	8	0.22	413
Cruriraja parcomaculata	1.83	5	0.21	
Chelidonichthys queketti	1.06	11	0.12	418
Octopus magnificus	0.82	3	0.10	
Starfish	0.74	26	0.09	
Merluccius paradoxus	0.45	3	0.05	417
Etrumeus whiteheadi	0.32	5	0.04	
Total	851.25		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 40  
 DATE :16/01/2010 GEAR TYPE: BT NO: 21 POSITION:Lat S 34°55.20  
 start stop duration Purpose : 3  
 TIME :08:41:30 09:11:32 30.0 (min) Lon E 24°4.67  
 LOG : 5744.34 5745.79 1.5 Region : 6000  
 FDEPTH: 427 426 Gear cond.: 0  
 BDEPTH: 427 426 Validity : 0  
 Towing dir: 0° Wire out : 940 m Speed : 2.9 km  
 Sorted : 703 Total catch: 702.74 Catch/hour: 1403.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	629.16	2109	44.82	393
Lepidopus caudatus	185.15	110	13.19	
Caelorinchus simorhynchus	95.87	517	6.83	
Merluccius paradoxus	90.88	310	6.47	391
Helicolenus dactylopterus	89.88	138	6.40	394
Zeus capensis	79.89	36	5.69	398
Merluccius paradoxus	65.91	206	4.70	392
Squalus mitsukurii	30.56	14	2.18	
Genypterus capensis	26.96	16	1.92	395
Lophius vomerinus	18.58	8	1.32	397
Octopus magnificus	15.38	2	1.10	
Trachurus capensis	14.38	30	1.02	396
Torpedo nobiliana	13.98	4	1.00	
Anemones, pink	13.98	30	1.00	
Todaropsis eblanae	13.78	90	0.98	399
Todaropsis eblanae	6.25	54	0.45	400
Epigonus sp.	2.62	26	0.19	
Rossia enigmatica	2.56	90	0.18	
Chlorophthalmus sp.	1.24	4	0.09	
Parapagurus pilosimanus	1.20	86	0.07	
Hoplostethus mediterraneus	0.94	2	0.07	
Lucigadus ori	0.94	248	0.07	
Lycoteuthis lorigera	0.84	2	0.06	
Hydrolagus sp.	0.66	4	0.05	
URCHINS	0.42	2	0.03	
G A S T R O P O D S	0.39	26	0.03	
Synagrops japonicus	0.38	4	0.03	
Starfish (large)	0.23	2	0.02	
Cyttus traversi	0.23	4	0.02	
Bathypolypus valdiviae	0.18	4	0.01	
Plagiogeneion rubiginosus	0.08	6	0.01	
CORAL	0.05	6	0.00	
Paracallionymus costatus	0.02	8	0.00	
Nudibranchs	0.01	4	0.00	
Gorgonians	0.01	2	0.00	
P O L Y C H A E T A	0.01	2	0.00	
Sternoptyx sp.	0.00	2	0.00	
Total	1403.60		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 43  
 DATE :16/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 34°31.04  
 start stop duration Purpose : 3  
 TIME :17:11:27 17:40:06 28.6 (min) Lon E 23°54.89  
 LOG : 5800.32 5801.71 1.4 Region : 6000  
 FDEPTH: 119 115 Gear cond.: 0  
 BDEPTH: 119 115 Validity : 0  
 Towing dir: 0° Wire out : 295 m Speed : 2.9 km  
 Sorted : 171 Total catch: 344.71 Catch/hour: 722.16

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Pterogymmus lanarius	251.40	809	34.81	422
Squalus megalops	152.51	381	21.12	
Merluccius capensis	111.03	145	15.38	425
Merluccius capensis	39.80	61	5.51	426
Congiopodus spinifer	36.66	233	5.08	
Loligo reynaudi	27.03	126	3.74	430
Trachurus capensis	23.21	40	3.21	423
Lophius vomerinus	18.85	6	2.61	421
Callorhinus capensis	18.02	6	2.49	
Loligo reynaudi	12.57	82	1.74	431
Gonorhynchus gonorhynchus	5.91	34	0.82	
Chelidonichthys queketti	5.72	44	0.79	429
Helicolenus dactylopterus	4.97	19	0.69	427
Chelidonichthys capensis	4.21	6	0.58	428
Black sand dollar	3.14	13	0.44	
Loligo reynaudi	2.83	82	0.39	432
Rhabdosargus globiceps	2.39	6	0.33	424
Etrumeus whiteheadi	0.59	13	0.08	
Starfish	0.35	27	0.05	
Sepia australis	0.29	52	0.04	
G A S T R O P O D S	0.29	40	0.04	
Starfish	0.27	19	0.04	0
ANTHOZOA (Sea anemones)	0.10	13	0.01	
Paracallionymus costatus	0.02	6	0.00	
Total	722.16		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 44  
 DATE :17/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 34°15.62  
 start stop duration Purpose : 3  
 TIME :03:52:06 04:22:45 30.7 (min) Region : 6000  
 LOG : 5886.49 5888.01 1.5 Gear cond.: 0  
 FDEPTH: 120 118 Validity : 0  
 BDEPTH: 120 118 Speed : 3.0 km  
 Towing dir: 0° Wire out : 280 m Catch/hour: 733.31  
 Sorted : 375 Total catch: 374.72

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 47  
 DATE :17/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 34°38.37  
 start stop duration Purpose : 3  
 TIME :10:52:37 11:22:38 30.0 (min) Region : 6000  
 LOG : 5928.95 5930.10 1.1 Gear cond.: 0  
 FDEPTH: 378 375 Validity : 0  
 BDEPTH: 378 375 Speed : 2.3 km  
 Towing dir: 0° Wire out : 920 m Catch/hour: 3319.21  
 Sorted : 201 Total catch: 1660.71

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius capensis	352.25	550	48.04	433
Merluccius capensis	131.12	194	17.88	440
Merluccius capensis	76.32	151	10.41	441
Squalus megalops, male	48.92	133	6.67	
Callorhynchus capensis	27.40	8	3.74	
Lophius vomerinus	25.83	8	3.52	439
Pterogymnus lanarius	18.59	39	2.54	437
Gonorynchus gonorynchus	10.96	23	1.49	434
Chelidonichthys capensis	6.95	10	0.95	435
Chelidonichthys queketti	6.75	49	0.92	436
Cynoglossus zanzibarensis	5.48	35	0.75	438
Starfish	5.40	59	0.74	
Scyliorhinus capensis, juvenile	4.52	0	0.62	
Sea cucumber	1.96	114	0.27	
Squalus megalops, female	1.96	14	0.27	
Sepia australis	1.64	309	0.22	
Octopus magnificus	1.49	2	0.20	
Loligo reynaudi	1.37	8	0.19	442
Etrumeus whiteheadi	1.33	49	0.18	
Loligo reynaudi	0.90	4	0.12	443
Merluccius capensis	0.49	47	0.07	444
Nudibranchs	0.40	53	0.05	
Mursia cristimanus	0.30	18	0.04	
Paracallionymus costatus	0.28	119	0.04	
Gonorynchus gonorynchus	0.25	2	0.03	
Congioiodus spinifer	0.16	2	0.02	
B I V A L V E S	0.14	29	0.02	
URCHINS	0.07	4	0.01	
Hermits, mixed	0.05	4	0.01	
Lolligoncula mercatoris	0.02	6	0.00	
Priapulida	0.02	4	0.00	
Goneplax angulata	0.02	2	0.00	
Total	733.31		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 45  
 DATE :17/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 34°21.96  
 start stop duration Purpose : 3  
 TIME :05:37:27 06:08:27 31.0 (min) Region : 6000  
 LOG : 5896.20 5897.67 1.5 Gear cond.: 0  
 FDEPTH: 124 123 Validity : 0  
 BDEPTH: 124 123 Speed : 2.8 km  
 Towing dir: 0° Wire out : 300 m Catch/hour: 1207.35  
 Sorted : 624 Total catch: 623.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius capensis	520.65	786	43.12	448
Squalus megalops	232.26	596	19.24	246
Merluccius capensis	135.48	99	11.22	446
Helicolenus dactylopterus	62.32	250	5.16	449
Scyliorhinus capensis	52.26	226	4.33	447
Merluccius capensis	42.58	17	3.53	447
Loligo reynaudi	32.13	170	2.66	459
Trachurus capensis	22.65	64	1.88	453
Loligo reynaudi	22.26	79	1.84	458
Callorhynchus capensis	21.77	6	1.80	
Mustelus mustelus	19.35	14	1.60	
Lophius vomerinus	11.23	6	0.93	451
Zeus capensis	8.40	37	0.70	450
Chelidonichthys queketti	6.97	39	0.58	452
Pterogymnus lanarius	6.58	12	0.55	454
Congioiodus spinifer	1.94	15	0.16	
Starfish	1.82	43	0.15	
Palinurus gilchristi	1.47	6	0.12	461
Gonorynchus gonorynchus	1.24	4	0.10	
Palinurus gilchristi	1.03	4	0.08	460
Chelidonichthys capensis	0.97	2	0.08	455
Genypterus capensis	0.52	2	0.04	456
Octopus magnificus	0.46	2	0.04	
Cynoglossus zanzibarensis	0.35	2	0.03	457
XXXXXXX	0.33	6	0.03	
Nudibranchs	0.27	46	0.02	
Mola mola, juvenile	0.04	2	0.00	
G A S T R O P O D S	0.01	6	0.00	
Rochinia sp.	0.01	2	0.00	
Priapulida	0.01	2	0.00	
Paracallionymus costatus	0.00	2	0.00	
Total	1207.35		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 46  
 DATE :17/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 34°31.76  
 start stop duration Purpose : 3  
 TIME :08:02:24 08:32:35 30.2 (min) Region : 6000  
 LOG : 5911.14 5912.58 1.4 Gear cond.: 0  
 FDEPTH: 119 120 Validity : 0  
 BDEPTH: 119 120 Speed : 2.9 km  
 Towing dir: 0° Wire out : 300 m Catch/hour: 195.86  
 Sorted : 99 Total catch: 98.52

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Pterogymnus lanarius	91.45	336	46.69	467
Merluccius capensis	15.90	18	8.12	464
Squalus megalops	15.90	36	8.12	
Congioiodus spinifer	13.52	101	6.90	
Lophius vomerinus	12.52	4	6.39	466
Helicolenus dactylopterus	10.74	46	5.48	445
Chelidonichthys queketti	9.74	83	4.97	465
Gonorynchus gonorynchus	5.17	36	2.64	
Raja wallacei	4.37	2	2.23	
Palinurus gilchristi	3.78	14	1.93	463
Loligo reynaudi	2.68	16	1.37	469
Palinurus gilchristi	2.39	8	1.22	462
Loligo reynaudi	2.19	20	1.12	470
Trachurus capensis	1.65	6	0.84	471
Holohalaelurus regani	1.57	4	0.80	
Rhabdosargus globiceps	0.99	2	0.51	468
Genypterus capensis	0.52	2	0.26	473
Starfish	0.27	10	0.14	
Zeus capensis	0.20	2	0.10	472
Starfish	0.12	6	0.06	0
Rochinia sp.	0.11	32	0.06	
Mursia cristimanus	0.04	4	0.02	
Nudibranchs	0.03	2	0.02	
Shark eggs	0.01	2	0.00	
Total	195.86		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	2055.63	4797	61.93	474
Merluccius paradoxus	883.41	2141	26.62	477
Merluccius paradoxus	246.34	590	7.42	478
Zeus capensis	67.95	120	2.05	476
Genypterus capensis	33.98	34	1.02	480
Caelorinchus simorhynchus	14.27	102	0.43	
Lophius vomerinus	11.99	6	0.36	475
Todaropsis eblanæ	5.48	52	0.16	479
Mursia cristimanus	0.16	16	0.00	
Helicolenus dactylopterus	0.00	0	0.00	
Total	3319.21		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 48  
 DATE :17/01/2010 GEAR TYPE: BT NO: 21 POSITION:Lat S 34°44.24  
 start stop duration Purpose : 3  
 TIME :14:11:41 14:41:46 30.1 (min) Region : 6000  
 LOG : 5949.03 5950.32 1.3 Gear cond.: 0  
 FDEPTH: 542 533 Validity : 0  
 BDEPTH: 542 533 Speed : 2.6 km  
 Towing dir: 0° Wire out : 1150 m Catch/hour: 707.55  
 Sorted : 355 Total catch: 354.72

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	347.07	273	49.05	482
Merluccius paradoxus	215.43	317	30.45	483
Genypterus capensis	111.70	20	15.79	481
SYNAPHOBRANCHIDAE	21.94	0	3.10	
Caelorinchus braueri	7.38	74	1.04	
Caelorinchus simorhynchus	1.04	6	0.15	
Plesionika martia	0.79	112	0.11	
Notacanthus sexspinis	0.48	8	0.07	
Starfish	0.42	10	0.06	
Parapagurus pilosimanus	0.27	26	0.04	
Hoplostethus mediterraneus	0.25	2	0.03	
Chlorophthalmus sp.	0.10	2	0.01	
Onychia sp.	0.08	2	0.01	
Rochinia sp.	0.08	8	0.01	
Psychrolutes macrocephalus	0.07	4	0.01	
Teuthowenia megalops	0.06	6	0.01	
Bathypolypus valdiviae	0.05	2	0.01	
Stoloteuthis sp.	0.04	6	0.01	
Malacocephalus laevis, juvenile	0.04	4	0.01	
Scopelosaurus herwigi	0.04	2	0.01	
Holohalaelurus regani, juvenile	0.03	2	0.00	
Janthina sp.	0.03	2	0.00	
Mursia cristimanus	0.03	2	0.00	
Funchalia woodwardi	0.02	2	0.00	
Chauliodus sloani	0.02	2	0.00	
Gymnoscopelus sp.	0.02	4	0.00	
Gonostoma elongatum	0.02	2	0.00	
Mollusc eggs	0.02	2	0.00	
Diretmus argenteus	0.01	2	0.00	
Argyropelecus gigas	0.01	2	0.00	
P O L Y C H A E T A	0.01	2	0.00	
Exodromidia sp.	0.01	2	0.00	
Diaphus sp.	0.01	2	0.00	
Lucigadus ori	0.00	2	0.00	
Shark eggs	0.00	2	0.00	
Total	707.57		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 49  
 DATE :17/01/2010 GEAR TYPE: BT NO: 21 POSITION:Lat S 34°34.37  
 start stop duration Purpose : 3  
 TIME :17:53:11 18:18:28 25.3 (min) Region : 6000  
 LOG : 5978.09 5979.41 1.3 Gear cond.: 0  
 FDEPTH: 597 598 Validity : 0  
 BDEPTH: 597 598 Speed : 3.1 km  
 Towing dir: 0° Wire out : 1320 m Catch/hour: 220.92  
 Sorted : 93 Total catch: 93.08

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Synaphobranchus kaupii	80.70	451	36.53	
Merluccius paradoxus	52.22	64	23.64	485
Caelorinchus braueri	29.67	479	13.43	
Notacanthus sexspinis	19.22	271	8.70	
Genypterus capensis	7.83	2	3.55	486
Hydrolagus africanus	7.83	12	3.55	
Helicolenus dactylopterus	6.29	17	2.85	487
Symblophorus boops	2.56	161	1.16	
Merluccius paradoxus	2.37	2	1.07	484
Etmopterus sp.	2.37	5	1.07	
Ancistrocheirus lesueurii	2.11	2	0.96	
Rochinia sp.	1.52	59	0.69	
Hoplostethus mediterraneus	1.38	12	0.62	
URCHINS	0.90	19	0.41	
Malacocephalus laevis	0.74	2	0.34	
Plesionika sp.	0.74	116	0.33	
ANTHOZOA (Sea anemones)	0.41	5	0.19	
Neocyttus rhomboidalis	0.31	5	0.14	
Starfish	0.30	36	0.14	
Vampyroteuthis infernalis	0.24	2	0.11	
Lycoteuthis lorigera	0.23	5	0.11	
Malacocephalus laevis, juvenile	0.21	24	0.10	
Plesiopeanaeus edwardsianus	0.15	7	0.07	
Psychrolutes macrocephalus	0.12	5	0.05	
Raja leopardus	0.09	7	0.04	
JELLYFISH	0.09	7	0.04	
Chauliodus sloani	0.05	5	0.02	
Hoplostethus mediterraneus, juvenile	0.05	21	0.02	
Nezumia sp.	0.04	5	0.02	
Tripterygion gilchristi	0.04	2	0.02	
G A S T R O P O D S	0.04	2	0.02	
Cubiceps capensis	0.03	2	0.01	
Lucigadus ori	0.02	2	0.01	
Shark eggs	0.02	2	0.01	
Sternoptyx sp.	0.01	2	0.00	
Xenodermichthys copei	0.00	2	0.00	
Total	220.92		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 50  
 DATE :18/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 34°31.46  
 start stop duration Purpose : 3  
 TIME :03:55:29 04:15:42 20.2 (min) Region : 6000  
 LOG : 6051.97 6052.95 1.0 Gear cond.: 0  
 FDEPTH: 404 404 Validity : 0  
 BDEPTH: 404 404 Wire out : 2.9 km  
 Towing dir: 0° Wire out : 920 m Speed : 2.9 km  
 Sorted : 189 Total catch: 1811.99 Catch/hour: 5376.82

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 53  
 DATE :18/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 34°31.14  
 start stop duration Purpose : 3  
 TIME :12:23:10 12:53:14 30.1 (min) Region : 6000  
 LOG : 6108.18 6109.64 1.5 Gear cond.: 0  
 FDEPTH: 65 64 Validity : 0  
 BDEPTH: 65 64 Wire out : 170 m  
 Towing dir: 0° Wire out : 170 m Speed : 2.9 km  
 Sorted : 222 Total catch: 221.80 Catch/hour: 442.70

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	2713.65	6039	50.47	490
Merluccius paradoxus	1386.05	3006	25.78	495
Merluccius paradoxus	1079.53	2187	20.08	494
Todaropsis eblanae	45.10	234	0.84	493
Trachurus capensis	44.51	267	0.83	493
Zeus capensis	29.67	30	0.55	489
Helicolenus dactylopterus	29.67	59	0.55	492
Caelorinchus simorhynchus	15.13	119	0.28	488
Gerypterus capensis	14.84	12	0.28	488
Holohalaelurus regani	14.24	30	0.26	488
Rossia enigmatica	3.77	89	0.07	488
Parapagurus pilosimanus	0.50	30	0.01	488
Diaphus sp.	0.15	30	0.00	488
Total	5376.82		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Sea cucumber - yellow	86.83	0	19.61	
Callorhinchus capensis	81.84	42	18.49	
Merluccius capensis	71.86	124	16.23	525
Chelidonichthys capensis	43.91	60	9.92	521
Squalus mitsukurii	23.95	22	5.41	
Pterogymmus lanarius	21.96	28	4.96	522
Raja pullopunctata, female	21.16	2	4.78	
Etrumeus whiteheadi	15.37	733	3.47	
Loligo reynaudi	12.38	58	2.80	529
Squalus megalops	11.98	42	2.71	
Trachurus capensis	9.98	40	2.25	523
Merluccius capensis	7.58	20	1.71	526
Raja straeleni	5.69	2	1.28	
Congiopodus spinifer	4.99	10	1.13	
Chelidonichthys queketti	4.61	22	1.04	524
Starfish	3.09	0	0.70	
Gorgonians	2.81	10	0.64	
Cynoglossus zanzibarensis	2.69	14	0.61	527
Myliobatis aquila	2.59	2	0.59	
Loligo reynaudi	1.70	12	0.38	531
Poroderma africanum	1.46	2	0.33	
Hermits, mixed	1.10	0	0.25	
Merluccius capensis	1.02	48	0.23	528
Scyllarides elisabethae	0.60	2	0.14	
Loligo reynaudi	0.40	22	0.09	532
Mursia cristimanus	0.31	16	0.07	
Janus lalandii	0.26	2	0.06	520
Gerypterus capensis	0.20	2	0.05	533
Nudibranchs	0.15	22	0.03	
Gnathopis capensis	0.10	2	0.02	
Lolligoncula mercatoris	0.04	88	0.01	
Goneplax angulata	0.03	2	0.01	
Rochinia sp.	0.02	6	0.00	
Notopogon macrosolen	0.02	8	0.00	
Sepia australis	0.02	2	0.00	
Pelagocephalus marki	0.01	2	0.00	
Paracallionymus costatus	0.01	2	0.00	
G A S T R O P O D S	0.01	2	0.00	
Total	442.70		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 51  
 DATE :18/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 34°26.70  
 start stop duration Purpose : 3  
 TIME :06:56:52 07:26:53 30.0 (min) Region : 6000  
 LOG : 6072.36 6073.65 1.3 Gear cond.: 0  
 FDEPTH: 148 151 Validity : 0  
 BDEPTH: 148 151 Wire out : 370 m  
 Towing dir: 0° Wire out : 370 m Speed : 2.6 km  
 Sorted : 249 Total catch: 249.41 Catch/hour: 498.50

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	163.89	458	32.88	508
Helicolenus dactylopterus	137.91	642	27.66	496
Pterogymmus lanarius	75.95	170	15.24	498
Squalus megalops	45.97	56	9.22	498
Merluccius capensis	26.58	14	5.33	491
Zeus capensis	9.99	36	2.00	499
Chelidonichthys queketti	9.19	62	1.84	497
Octopus magnificus	6.00	6	1.20	507
Merluccius paradoxus	4.00	4	0.80	507
Congiopodus torvus	2.40	2	0.48	510
Palinurus gilchristi	2.26	8	0.45	510
Gerypterus capensis	2.20	10	0.44	502
Spherooides pachgaster	2.00	6	0.40	505
Loligo reynaudi	1.84	10	0.37	505
Trachurus capensis	1.80	12	0.36	501
Todaropsis eblanae	1.62	16	0.32	504
Congiopodus spinifer	1.50	12	0.30	504
Loligo reynaudi	0.98	8	0.20	506
Todaropsis eblanae	0.98	6	0.20	503
Palinurus gilchristi	0.81	2	0.16	509
Cynoglossus zanzibarensis	0.40	4	0.08	500
Sepia australis	0.09	12	0.02	
G A S T R O P O D S	0.08	16	0.02	
Nudibranchs	0.05	6	0.01	
Shark eggs	0.02	18	0.00	
Total	498.50		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 54  
 DATE :19/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 33°49.93  
 start stop duration Purpose : 3  
 TIME :03:49:45 04:19:53 30.1 (min) Region : 6000  
 LOG : 6186.35 6187.71 1.4 Gear cond.: 0  
 FDEPTH: 44 44 Validity : 0  
 BDEPTH: 44 44 Wire out : 110 m  
 Towing dir: 0° Wire out : 110 m Speed : 2.7 km  
 Sorted : 118 Total catch: 117.77 Catch/hour: 234.45

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Callorhinchus capensis	113.47	86	48.40	
Chelidonichthys queketti	39.81	442	16.98	536
Myliobatis aquila	21.10	14	9.00	
Austroglossus pectoralis	12.54	84	5.35	535
Loligo reynaudi	11.94	64	5.09	539
Squalus mitsukurii	9.95	6	4.25	
Merluccius capensis	7.76	22	3.31	534
Loligo reynaudi	3.38	14	1.44	538
Sea cucumber - yellow	3.38	2116	1.44	
Starfish	2.19	0	0.93	
JELLYFISH	2.19	0	0.93	
Haploblepharus edwardsii	1.93	14	0.82	
Pagellus bellottii natalensis	1.73	6	0.74	
Squalus megalops	1.11	2	0.48	
Galeichthys feliceps	1.00	4	0.42	
Loligo reynaudi	0.51	82	0.22	537
XXXXXXX	0.10	6	0.04	0
Armoglossus capensis	0.09	6	0.04	
Cirripedia	0.08	8	0.04	
PORTUNIDAE	0.08	4	0.03	
Etrumeus whiteheadi	0.02	2	0.01	
Goneplax angulata	0.02	2	0.01	
Rochinia sp.	0.02	4	0.01	
Pycnogonid	0.01	8	0.01	
Lolligoncula mercatoris	0.01	4	0.00	
Sepia typica	0.00	2	0.00	
Trachurus capensis	0.00	2	0.00	530
Spherooides pachgaster, juvenile	0.00	4	0.00	
Total	234.45		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 52  
 DATE :18/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 34°12.06  
 start stop duration Purpose : 3  
 TIME :09:46:33 10:16:36 30.1 (min) Region : 6000  
 LOG : 6090.07 6091.64 1.6 Gear cond.: 0  
 FDEPTH: 117 117 Validity : 0  
 BDEPTH: 117 117 Wire out : 300 m  
 Towing dir: 0° Wire out : 300 m Speed : 3.1 km  
 Sorted : 186 Total catch: 975.64 Catch/hour: 1948.02

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius capensis	744.76	1054	38.23	517
Merluccius capensis	511.15	799	26.24	518
Pterogymmus lanarius	415.31	863	21.32	511
Trachurus capensis	138.77	405	7.12	512
Squalus megalops	69.28	266	3.56	512
Black sand dollar	23.54	160	1.21	515
Loligo reynaudi	13.72	74	0.70	515
Loligo reynaudi	9.36	42	0.48	516
Curiraja parcomaculata	8.59	22	0.44	516
Callorhinchus capensis	6.59	2	0.34	516
Chelidonichthys queketti	3.19	22	0.16	513
Todaropsis eblanae	1.29	10	0.07	519
Mursia cristimanus	0.76	54	0.04	
Congiopodus spinifer	0.64	10	0.03	
Palinurus gilchristi	0.56	2	0.03	514
Nudibranchs	0.17	10	0.01	
Starfish	0.12	20	0.01	
Sepia australis	0.12	20	0.01	
G A S T R O P O D S	0.05	10	0.00	
ANTHOZOA (Sea anemones)	0.03	10	0.00	
Paracallionymus costatus	0.03	10	0.00	
Total	1948.02		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 55  
 DATE :19/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 34°1.42  
 start stop duration Purpose : 3 Lon E 26°21.03  
 TIME :06:26:09 06:56:09 30.0 (min) Region : 6000  
 LOG : 6202.90 6204.38 1.5 Gear cond.: 0  
 FDEPTH: 113 112 Validity : 0  
 BDEPTH: 113 112 Speed : 3.0 km  
 Towing dir: 0° Wire out : 300 m Catch/hour: 551.62  
 Sorted : 276 Total catch: 275.90

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP	
Merluccius capensis	161.95	192	29.36	553
Pterogymmus lanarius	139.95	398	25.37	547
Merluccius capensis	107.96	174	19.57	554
Squalus megalops	31.99	82	5.80	543
Chelidonichthys queketti	21.99	192	3.99	544
Loligo reynaudi - eggs	15.39	0	2.79	
Genypterus capensis	11.00	36	1.99	540
Callorhynchus capensis	10.00	4	1.81	
Squalus megalops	8.20	30	1.49	542
Chelidonichthys capensis	6.80	16	1.23	546
Raja straeleni	6.00	2	1.09	
Loligo reynaudi	5.80	20	1.05	549
Loligo reynaudi	4.80	22	0.87	548
Merluccius capensis	4.00	114	0.72	545
Cynoglossus zanzibarensis	2.80	28	0.51	541
Mustelus palumbes	2.20	2	0.40	
Engraulis capensis	1.80	100	0.33	
Pliotrema warreni	1.60	2	0.29	
Congiopodus spinifer	1.30	12	0.24	
Rhinobatos annulatus	1.00	2	0.18	551
Trachurus capensis	1.00	2	0.18	550
Helicolenus dactylopterus	0.92	10	0.17	552
Gorgonians	0.86	4	0.16	
Austroglossus pectoralis	0.80	4	0.14	552
Starfish	0.66	0	0.12	
AMTHOZOA (Sea anemones)	0.30	14	0.05	
Priapulida	0.23	38	0.04	0
Sepia australis	0.14	24	0.03	
Paracallionymus costatus	0.09	36	0.02	
Nudibranchs	0.06	4	0.01	
Mursia cristimanus	0.02	2	0.00	
JELLYFISH	0.01	2	0.00	
Pycnogonid	0.01	6	0.00	
Iniotheuthis capensis	0.00	2	0.00	
Total	551.62		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 56  
 DATE :19/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 34°11.56  
 start stop duration Purpose : 3 Lon E 26°21.02  
 TIME :08:56:54 09:26:54 30.0 (min) Region : 6000  
 LOG : 6219.28 6220.56 1.3 Gear cond.: 0  
 FDEPTH: 127 126 Validity : 0  
 BDEPTH: 127 126 Speed : 2.6 km  
 Towing dir: 0° Wire out : 320 m Catch/hour: 1561.36  
 Sorted : 226 Total catch: 780.68

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP	
Pterogymmus lanarius	1100.00	2904	70.45	558
Squalus megalops	90.00	290	5.76	
Merluccius capensis	74.00	84	4.74	561
Merluccius capensis	64.00	62	4.10	562
Loligo reynaudi	62.70	330	4.02	559
Myliobatis aquila	50.00	2	3.20	
Galeorhinus galeus	40.00	2	2.56	
Loligo reynaudi	37.84	242	2.42	560
Genypterus capensis	16.00	24	1.02	555
Cynoglossus zanzibarensis	8.16	44	0.52	565
Chelidonichthys queketti	5.79	44	0.37	563
Umbrina canariensis	4.20	6	0.27	556
Scomber japonicus	3.76	22	0.24	564
Chelidonichthys capensis	1.80	2	0.12	557
Synagrops japonicus	0.88	22	0.06	
Starfish	0.59	66	0.04	
Raja straeleni	0.58	2	0.04	
Plagiogeneion rubiginosus	0.31	22	0.02	
Helicolenus dactylopterus	0.31	22	0.02	566
Sepia australis	0.31	22	0.02	
Paracallionymus costatus	0.07	44	0.00	
Iniotheuthis capensis	0.04	22	0.00	
G A S T R O P O D S	0.02	22	0.00	
Total	1561.36		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 57  
 DATE :19/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 34°20.77  
 start stop duration Purpose : 3 Lon E 26°22.26  
 TIME :12:35:45 13:06:01 30.3 (min) Region : 6000  
 LOG : 6242.90 6244.34 1.4 Gear cond.: 0  
 FDEPTH: 352 356 Validity : 0  
 BDEPTH: 352 356 Speed : 2.9 km  
 Towing dir: 0° Wire out : 920 m Catch/hour: 502.14  
 Sorted : 253 Total catch: 253.33

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP	
Genypterus capensis	200.20	123	39.87	567
Merluccius paradoxus	95.14	301	18.95	571
Merluccius paradoxus	65.41	194	13.03	570
Merluccius paradoxus	55.50	165	11.05	572
Lophius vomerinus	35.68	14	7.11	568
Caelorinchus simorhynchus	9.08	65	1.81	
Dead shells	7.53	0	1.50	
Raja wallacei	7.14	6	1.42	
Squalus megalops	6.54	8	1.30	
Symbolophorus boops	4.46	406	0.89	
Helicolenus dactylopterus	4.36	22	0.87	569
Merluccius capensis	3.17	2	0.63	573
Plesionika martia	1.82	303	0.36	
Cruriraja parcomaculata	1.59	2	0.32	
Hoplostethus mediterraneus	1.09	182	0.22	
Rochinia sp.	0.85	32	0.17	
Black sand dollar	0.46	4	0.09	
Myxine capensis	0.40	2	0.08	
Maurollicus muelleri	0.31	149	0.06	
URCHINS	0.25	4	0.05	
Synagrops japonicus	0.20	2	0.04	
Bristle worms	0.17	36	0.03	
Malacocephalus laevis	0.14	2	0.03	
Chlorophthalmus punctatus	0.12	28	0.02	
Lycoteuthis lorigera	0.09	2	0.02	
XXXXXXX	0.06	2	0.01	
Chaceon sp., juvenile	0.05	0	0.01	
Gymnoscopelus sp.	0.04	4	0.01	
C R A B S	0.04	2	0.01	
Lucigadus ori	0.04	6	0.01	
ARISTIDAE	0.04	2	0.01	
Starfish	0.04	2	0.01	
Parapagurus pilosimanus	0.02	2	0.00	
MYCTOPHIDAE	0.02	6	0.00	
Cubiceps capensis	0.02	2	0.00	
Chaunax sp.	0.01	4	0.00	
Bathyclupea elongata	0.01	2	0.00	
Polyipnus indicus	0.01	10	0.00	
Zenion sp.	0.01	2	0.00	
Priapulida	0.01	2	0.00	
Lampantodes hectoris	0.01	4	0.00	
Spherooides pachgaster, juvenile	0.00	2	0.00	
Total	502.14		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 58  
 DATE :19/01/2010 GEAR TYPE: BT NO: 21 POSITION:Lat S 34°21.61  
 start stop duration Purpose : 3 Lon E 26°22.73  
 TIME :14:27:33 14:57:37 30.1 (min) Region : 6000  
 LOG : 6249.73 6251.07 1.3 Gear cond.: 0  
 FDEPTH: 501 513 Validity : 0  
 BDEPTH: 501 513 Speed : 2.7 km  
 Towing dir: 0° Wire out : 1100 m Catch/hour: 163.31  
 Sorted : 163 Total catch: 163.31

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP	
Aristeus varidens	111.74	6	34.29	
Centrophorus squamosus	47.89	6	14.70	
Genypterus capensis	31.93	16	9.80	574
Squalus megalops	31.13	22	9.55	
Lophius vomerinus	19.95	6	6.12	575
Merluccius paradoxus	18.76	52	5.76	577
Hydrolagus sp.	9.38	10	3.06	
Histioteuthis miranda	8.98	6	2.76	
Helicolenus dactylopterus	7.98	24	2.45	576
Caelorinchus simorhynchus	7.38	92	2.27	
Ommastrephes bartrami	6.78	2	2.08	578
Raja dourtei	3.89	2	1.19	
Hoplostethus mediterraneus	2.39	533	0.73	
Tripterygius gilchristi	1.88	64	0.58	
Gonorynchus gonorynchus	1.88	6	0.58	
Dalatis licha	1.75	2	0.54	
Etmopterus pusillus	1.53	2	0.47	
Rochinia sp.	1.46	112	0.45	
Xenodermichthys copei	1.08	58	0.33	
Nezumia sp.	1.02	70	0.31	
PASIPHAIDAE	0.90	154	0.28	
Chaceon macphersoni	0.85	2	0.26	
Gymnoscopelus sp.	0.73	40	0.22	
Caelorinchus braueri	0.62	40	0.19	
Nezumia sp.	0.61	2	0.19	0
Setarches guentheri	0.50	2	0.15	0
Setarches guentheri	0.50	2	0.15	0
Myxine capensis	0.42	4	0.13	
Munidopsis sp.	0.20	38	0.06	
Starfish white 5 arms	0.20	20	0.06	
Malacocephalus laevis	0.17	24	0.05	
ISOPODS	0.15	148	0.05	
OPHIDIIDAE	0.11	2	0.03	
Starfish	0.09	14	0.03	
Stoloteuthis sp.	0.07	8	0.02	
Lucigadus ori	0.06	4	0.02	
Cubiceps capensis	0.06	2	0.02	
Argyropelecus sp.	0.05	2	0.02	
Etmopterus brachyurus	0.05	2	0.01	
Promethichthys prometheus	0.05	2	0.01	
Lampantodes hectoris	0.03	12	0.01	
Chlorophthalmus punctatus	0.03	4	0.01	
MAJIDAE	0.02	2	0.01	
Neopinnula orientalis	0.02	2	0.00	
TETRAODONTIDAE, juvenile	0.01	2	0.00	
Polyipnus indicus	0.01	4	0.00	
Sternoptyx sp.	0.01	2	0.00	
Shrimps, small, non comm.	0.00	2	0.00	
Total	325.85		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 59  
 DATE :19/01/2010 GEAR TYPE: BT NO: 21 POSITION:Lat S 34°22.03  
 start stop duration Purpose : 3 Lon E 26°22.85  
 TIME :16:16:48 16:39:41 22.9 (min) Region : 6000  
 LOG : 6257.26 6258.22 1.0 Gear cond.: 9  
 FDEPTH: 615 618 Validity : 1  
 BDEPTH: 615 618 Speed : 2.5 km  
 Towing dir: 0° Wire out : 1300 m Catch/hour: 91.82  
 Sorted : 35 Total catch: 35.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP	
Merluccius paradoxus	23.61	31	25.71	580
Centrophorus squamosus	19.94	3	21.71	
Hydrolagus sp.	14.95	13	16.29	
Raja dourtei	10.49	5	11.43	
Genypterus capensis	7.87	3	8.57	579
Etmopterus sp.	6.56	8	7.14	
Histioteuthis miranda	5.25	3	5.71	
Deania sp.	3.15	3	3.43	
Total	91.82		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 60  
 DATE :20/01/2010 GEAR TYPE: BT NO: 21 POSITION:Lat S 34°12.02  
 start stop duration Lon E 26°46.03  
 TIME :03:59:18 04:29:33 30.3 (min) Purpose : 3  
 LOG : 6327.95 6329.18 1.2 Region : 6000  
 FDEPTH: 631 627 Gear cond.: 0  
 BDEPTH: 631 627 Validity : 0  
 Towing dir: 0° Wire out : 1420 m Speed : 2.4 km  
 Sorted : 37 Total catch: 37.37 Catch/hour: 74.12

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 62  
 DATE :20/01/2010 GEAR TYPE: BT NO: 21 POSITION:Lat S 34°9.49  
 start stop duration Lon E 26°46.40  
 TIME :07:35:03 08:05:08 30.1 (min) Purpose : 3  
 LOG : 6337.10 6338.52 1.4 Region : 6000  
 FDEPTH: 356 363 Gear cond.: 0  
 BDEPTH: 356 363 Validity : 0  
 Towing dir: 0° Wire out : 800 m Speed : 2.8 km  
 Sorted : 222 Total catch: 222.14 Catch/hour: 442.96

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Centroprorus squamosus	40.07	4	54.06	
Malacocephalus laevis, juvenile	6.94	115	9.37	
Caelorinchus braueri	5.20	432	7.01	
Aristeus varidens	4.28	143	5.78	
Psychrolutes macrocephalus	3.57	8	4.82	
Helicolenus dactylopterus	3.45	18	4.66	582
Nezumia sp.	3.29	77	4.44	
Gymnoscopelus sp.	0.89	36	1.20	
Chauliodus sloani	0.85	48	1.15	
Hydrologus africanus	0.78	2	1.05	
JELLYFISH	0.54	24	0.72	
Merluccius paradoxus	0.54	2	0.72	581
EXOCOETIDAE	0.51	2	0.68	
Hoplostethus mediterraneus	0.46	105	0.62	
Symbolophorus sp.	0.33	26	0.44	
Neoscopelus macrolepidotus	0.26	4	0.35	
Histioteuthis meleagroteuthis	0.24	2	0.32	
Barbourisia rufa	0.21	2	0.28	0
PASIPHAEIDAE	0.20	0	0.27	
Coloconger scholesi	0.19	2	0.26	
Sternoptyx sp.	0.19	40	0.26	
Chlorophthalmus punctatus	0.13	2	0.17	
Oreosoma atlanticum	0.12	2	0.17	
Serrivomer beanii	0.10	10	0.13	
Caelorinchus sp.	0.09	2	0.12	
Malacocephalus laevis	0.08	2	0.11	
Gymnoscopelus sp.	0.08	26	0.11	0
Melanocetus sp.	0.07	4	0.09	
Rondeletia loricata	0.06	4	0.08	
Stoloteuthis sp.	0.06	12	0.08	
Sergia sp.	0.05	6	0.07	
Electrona sp.	0.05	4	0.06	
Cryptopsaras couesii	0.05	2	0.06	
Idiacanthus atlanticus	0.04	2	0.05	
Myctophum sp.	0.03	2	0.05	
Xenodermichthys copei	0.03	8	0.05	
L O B S T E R S	0.02	2	0.03	
GONOSTOMATIDAE	0.02	2	0.03	
Haplophryne mollis	0.02	2	0.03	
LINOPHRYNIDAE	0.02	2	0.03	0
PARALEPIDIDAE	0.02	4	0.02	
Etmopterus brachyurus	0.02	2	0.02	
Polyipnus sp.	0.01	2	0.01	
MALJIDAE	0.01	2	0.01	
ISOPODS	0.00	8	0.01	
Total	74.12		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Squalus megalops	119.64	195	27.01	592
Merluccius capensis	95.71	80	21.61	596
Squalus megalops	67.80	104	15.31	593
Genypterus capensis	47.86	42	10.80	591
Lophius vomerinus	21.93	8	4.95	588
Cruriraja parcomaculata	16.55	30	3.74	
Merluccius paradoxus	12.76	58	2.88	594
Merluccius capensis	8.57	8	1.94	595
Zeus capensis	7.98	12	1.80	589
Mustelus palumbes	7.58	8	1.71	
Helicolenus dactylopterus	6.58	22	1.49	590
Lepidopus caudatus	6.18	4	1.40	
Symbolophorus boops	4.39	275	0.99	
Holohalaelurus regani	3.99	6	0.90	
Raja wallacei	2.19	2	0.50	
Gonorynchus gonorynchus	1.99	6	0.45	
Palinurus gilchristi	1.99	4	0.45	587
Chlorophthalmus punctatus	1.69	28	0.38	
Parapagurus pilosimanus	1.62	116	0.36	
G A S T R O P O D S	1.50	0	0.34	
Starfish	1.30	0	0.29	
Eridacnis sinuans	0.78	4	0.18	
Malacocephalus laevis	0.54	14	0.12	
Loligo reynaudi	0.54	2	0.12	597
Synagrops japonicus	0.36	4	0.08	
Cynoglossus zanzibarensis	0.22	6	0.05	598
Plagiogoneion rubiginosus	0.20	2	0.05	
Setarches guentheri	0.17	2	0.04	
Caelorinchus braueri	0.14	6	0.03	
Helicolenus dactylopterus	0.06	14	0.01	638
XXXXXXX	0.04	12	0.01	
Shark eggs	0.03	20	0.01	
Anemones, white	0.03	2	0.01	
Rossia enigmatica	0.02	2	0.00	
Mursia cristimanus	0.01	4	0.00	
Raja leopardus, juvenile	0.01	2	0.00	
Lampanyctodes hectoris	0.01	6	0.00	
Paracallionymus costatus	0.00	2	0.00	
Total	442.96		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 63  
 DATE :20/01/2010 GEAR TYPE: BT NO: 21 POSITION:Lat S 34°7.53  
 start stop duration Lon E 26°46.93  
 TIME :09:18:20 09:49:42 31.4 (min) Purpose : 3  
 LOG : 6341.71 6343.19 1.5 Region : 6000  
 FDEPTH: 245 250 Gear cond.: 0  
 BDEPTH: 245 250 Validity : 0  
 Towing dir: 0° Wire out : 600 m Speed : 2.8 km  
 Sorted : 33 Total catch: 33.46 Catch/hour: 64.01

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 61  
 DATE :20/01/2010 GEAR TYPE: BT NO: 21 POSITION:Lat S 34°10.43  
 start stop duration Lon E 26°46.44  
 TIME :05:55:41 06:26:28 30.8 (min) Purpose : 3  
 LOG : 6333.01 6334.22 1.2 Region : 6000  
 FDEPTH: 466 456 Gear cond.: 0  
 BDEPTH: 466 456 Validity : 0  
 Towing dir: 0° Wire out : 1050 m Speed : 2.3 km  
 Sorted : 185 Total catch: 185.33 Catch/hour: 361.27

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Squalus megalops	11.48	15	17.93	
Loligo reynaudi	10.85	59	16.95	602
Ommastrephes bartrami	7.84	2	12.25	
Mustelus palumbes	7.65	4	11.96	
Lophius vomerinus	6.51	4	10.16	599
Raja wallacei	5.74	6	8.97	
Loligo reynaudi	3.73	13	5.83	601
Merluccius capensis	2.97	6	4.63	603
Pliotrema warreni	1.53	2	2.39	
Chelidonichthys queketti	1.15	8	1.79	600
Mauroliscus muelleri	0.96	0	1.49	
Lampanyctodes hectoris	0.96	0	1.49	
Lepidopus caudatus	0.92	4	1.43	
Gonorynchus gonorynchus	0.67	11	1.05	
Helicolenus dactylopterus	0.42	4	0.65	604
Rochinia sp.	0.14	10	0.22	
Mursia cristimanus	0.12	23	0.19	
Rossia enigmatica	0.11	6	0.17	
PORTUNIDAE	0.09	2	0.14	
Chlorophthalmus punctatus, juvenile	0.08	15	0.13	
P O L Y C H A E T A	0.02	8	0.04	
Notopogon macrosolen	0.02	2	0.04	
Haplolepharus edwardsii	0.02	2	0.03	
Chaceon sp., juvenile	0.02	13	0.03	
Paracallionymus costatus	0.01	4	0.02	
Synagrops japonicus	0.01	2	0.01	
Unidentified fish	0.00	2	0.00	
Holohalaelurus cf grenniana	0.00	0	0.00	
Total	64.01		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 64  
 DATE :20/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 34°0.83  
 start stop duration Lon E 26°50.92  
 TIME :12:21:13 12:47:30 26.3 (min) Purpose : 3  
 LOG : 6361.54 6362.64 1.1 Region : 6000  
 FDEPTH: 126 126 Gear cond.: 0  
 BDEPTH: 126 126 Validity : 0  
 Towing dir: 0° Wire out : 310 m Speed : 2.5 km  
 Sorted : 88 Total catch: 87.57 Catch/hour: 199.84

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Squalus asper	172.32	170	47.70	
Genypterus capensis	84.60	31	23.42	583
Raja wallacei	21.44	12	5.94	
Cruriraja parcomaculata	19.49	43	5.40	
Squalus megalops	16.37	18	4.53	
Mustelus palumbes	10.72	6	2.97	
Lophius vomerinus	8.97	4	2.48	585
Merluccius paradoxus	8.38	25	2.32	584
S H R I M P S	5.28	881	1.46	
Zeus capensis	4.29	2	1.19	586
Plesionika martia	2.71	226	0.75	
Caelorinchus simorhynchus	2.42	18	0.67	
Caelorinchus braueri	1.05	19	0.29	
Chlorophthalmus punctatus	0.81	19	0.23	
Parapagurus pilosimanus	0.66	74	0.18	0
Gymnoscopelus sp.	0.37	62	0.10	
G A S T R O P O D S	0.19	16	0.05	
Chauliodus sloani	0.19	16	0.05	
JELLYFISH	0.14	2	0.04	
Malacosteus niger	0.12	6	0.03	
Symbolophorus boops	0.11	10	0.03	
Lycoteuthis lorigera	0.10	2	0.03	
Etmopterus brachyurus	0.08	2	0.02	
Histioteuthis sp.	0.08	4	0.02	
Bathypolypus valdiviae	0.06	4	0.02	
Idiacanthus atlanticus	0.06	4	0.02	
Malthopsis sp.	0.05	6	0.01	
Parapagurus pilosimanus	0.04	6	0.01	
Sternoptyx sp.	0.03	10	0.01	
Chascanopsetta lugubris	0.03	2	0.01	
Zenion sp.	0.02	4	0.01	
MYCTOPHIDAE	0.02	10	0.01	
Malacocephalus laevis	0.02	6	0.00	
Liocranchia reinhardti	0.01	2	0.00	
Spotted rightheye flatfish, juvenile	0.01	2	0.00	
Peristedion sp.	0.01	4	0.00	
Shark eggs	0.01	2	0.00	
Shrimps, small, non comm.	0.00	2	0.00	
CERATIIDAE, juvenile	0.00	2	0.00	
Chaceon sp., juvenile	0.00	2	0.00	
Cranchia scabra	0.00	2	0.00	
Total	361.27		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Loligo reynaudi	79.88	393	39.97	609
Loligo reynaudi	54.77	196	27.41	608
Squalus megalops	44.50	82	22.27	
Gonorynchus gonorynchus	9.01	62	4.51	
Raja wallacei	3.42	7	1.71	
Pterogymmus lanarius	3.15	11	1.58	605
Mustelus palumbes	2.05	2	1.03	
Chelidonichthys queketti	1.14	14	0.57	606
Zeus capensis	0.84	2	0.42	607
Halaelurus natalensis	0.73	2	0.37	
Etrumeus whiteheadi	0.30	5	0.15	
Arnoglossus capensis	0.03	2	0.01	
Total	199.84		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 65  
 DATE :20/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 33°51.59  
 start stop duration Purpose : 3  
 TIME :14:41:38 15:11:44 30.1 (min) Region : 6000  
 LOG : 6378.24 6379.73 1.5 Gear cond.: 0  
 FDEPTH: 89 93 Validity : 0  
 BDEPTH: 89 93 Speed : 3.0 km  
 Towing dir: 0° Wire out : 230 m Catch/hour: 431.67  
 Sorted : 217 Total catch: 216.62

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 68  
 DATE :21/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 34°11.55  
 start stop duration Purpose : 3  
 TIME :08:39:50 08:52:57 13.1 (min) Region : 6000  
 LOG : 6531.39 6531.99 0.6 Gear cond.: 0  
 FDEPTH: 116 113 Validity : 0  
 BDEPTH: 116 113 Speed : 2.7 km  
 Towing dir: 0° Wire out : 290 m Catch/hour: 7421.30  
 Sorted : 183 Total catch: 1622.79

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Squalus megalops	117.57	305	27.24	
Merluccius capensis	115.58	155	26.77	618
Pterogymnus lanarius	49.82	141	11.54	610
Merluccius capensis	33.88	36	7.85	619
Raja alba, female	17.54	2	4.06	
Loligo reynaudi	16.14	88	3.74	621
Argyrozoona argyrozoona	12.95	34	3.00	611
Pliotrema warreni	11.36	2	2.63	
Trachurus capensis	10.96	16	2.54	612
Loligo reynaudi	9.76	34	2.26	622
Galeorhinus galeus	8.37	2	1.94	
Rhinobatos annulatus	4.38	2	1.02	
Halaelurus natalensis	3.99	16	0.92	
PORIFERA (Sponges)	3.91	0	0.90	
Gonorynchus gonorynchus	2.69	6	0.62	
Scorpaena scrofa	2.39	2	0.55	
Rhabdosargus globiceps	1.79	2	0.42	616
Genypterus capensis	1.49	4	0.35	614
Rhabdosargus globiceps	1.47	2	0.34	617
Chelidonichthys queketti	1.39	14	0.32	613
Raja wallacei	1.20	2	0.28	
Gonorynchus gonorynchus	0.80	8	0.18	0
Cynoglossus zanzibarensis	0.68	4	0.16	615
Umbrina canariensis	0.67	2	0.15	623
Congioodus spinifer	0.25	2	0.06	
Hermits, mixed	0.23	6	0.05	
Chelodactylus pixi	0.14	6	0.03	
Loligo reynaudi	0.14	10	0.03	620
Sepia australis	0.05	6	0.01	
Starfish	0.04	4	0.01	
Engraulis capensis	0.03	2	0.01	
Physiculus capensis	0.01	2	0.00	
BALISTIDAE, juvenile	0.00	2	0.00	
Total	431.67		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Pterogymnus lanarius	2222.56	4445	29.95	652
Merluccius capensis	1852.13	2099	24.96	655
Merluccius capensis	1440.55	1441	19.41	654
Trachurus capensis	1070.12	5062	14.42	653
Etrumeus whiteheadi	411.59	8950	5.55	
Squalus megalops	209.91	823	2.83	
Mustelus palumbes	90.55	82	1.22	
Loligo reynaudi	57.62	288	0.78	659
Raja miraletus	18.93	41	0.26	
Umbrina canariensis	16.88	41	0.23	658
Congioodus spinifer	9.47	82	0.13	
Helicolenus dactylopterus	8.64	41	0.12	657
Rhabdosargus globiceps	7.77	9	0.10	651
Genypterus capensis	4.57	5	0.06	656
Total	7421.30		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 69  
 DATE :21/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 34°23.60  
 start stop duration Purpose : 3  
 TIME :11:11:15 11:41:54 30.4 (min) Region : 6000  
 LOG : 6548.35 6550.77 2.4 Gear cond.: 0  
 FDEPTH: 176 178 Validity : 0  
 BDEPTH: 178 178 Speed : 2.9 km  
 Towing dir: 0° Wire out : 420 m Catch/hour: 569.18  
 Sorted : 68 Total catch: 287.91

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Helicolenus dactylopterus	442.83	2843	77.80	662
Merluccius capensis	41.52	38	7.29	663
Merluccius paradoxus	23.72	79	4.17	664
Trachurus capensis	12.65	63	2.22	666
Zeus capensis	12.02	32	2.11	670
Gonorynchus gonorynchus	9.81	32	1.72	
Squalus megalops	7.75	16	1.36	
Lophius vomerinus	3.46	2	0.61	667
Holohalaelurus regani	3.16	32	0.56	
Sea cucumber - yellow	3.16	0	0.56	
URCHINS	2.69	0	0.47	
Merluccius paradoxus	2.37	4	0.42	665
Cynoglossus zanzibarensis	2.21	16	0.39	669
Palinurus gilchristi	0.73	2	0.13	661
Palinurus gilchristi	0.55	2	0.10	660
Genypterus capensis	0.53	2	0.09	668
Pycnogonid	0.00	0	0.00	
Total	569.18		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 66  
 DATE :21/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 33°49.90  
 start stop duration Purpose : 3  
 TIME :04:28:46 04:54:43 26.0 (min) Region : 6000  
 LOG : 6504.46 6505.71 1.3 Gear cond.: 0  
 FDEPTH: 49 48 Validity : 0  
 BDEPTH: 49 48 Speed : 2.9 km  
 Towing dir: 0° Wire out : 145 m Catch/hour: 1162.39  
 Sorted : 195 Total catch: 502.74

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Etrumeus whiteheadi	839.31	36497	72.21	
Callorhynchus capensis	63.58	44	5.47	
Myliobatis aquila	48.55	51	4.18	
Squalus megalops	41.62	199	3.58	
Galeorhinus galeus	39.77	7	3.42	
Pterogymnus lanarius	23.35	51	2.01	625
Loligo reynaudi	21.50	92	1.85	632
Loligo reynaudi	20.35	106	1.75	631
Chrysoblephus gibbiceps	12.72	2	1.09	624
Merluccius capensis	9.25	25	0.80	626
Austroglossus pectoralis	8.09	46	0.70	628
Congioodus spinifer	4.62	23	0.40	
Argyrosomus inodorus	4.02	14	0.35	630
Galeichthys feliceps	3.88	14	0.33	
Chelidonichthys queketti	3.12	30	0.27	629
Halaelurus natalensis	3.01	14	0.26	
Asciadiacea	2.34	39	0.20	
Chelidonichthys capensis	2.31	2	0.20	637
Scomber japonicus	1.88	51	0.16	635
Argyrozoona argyrozoona	1.39	5	0.12	627
Sardinops ocellatus	1.27	25	0.11	
Chelodactylus pixi	1.25	14	0.11	
Rhabdosargus globiceps	1.18	2	0.10	633
Hapllolepharus edwardsii	1.16	5	0.10	
Starfish	0.93	254	0.08	
Cirripecta	0.73	39	0.06	0
Trachurus capensis	0.37	2	0.03	634
Loligo reynaudi	0.31	166	0.03	636
Raja pullopectata	0.31	14	0.03	
ANTHOZOA (Sea anemones)	0.23	25	0.02	
Total	1162.39		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 70  
 DATE :21/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 34°26.05  
 start stop duration Purpose : 3  
 TIME :13:29:09 13:41:45 12.6 (min) Region : 6000  
 LOG : 6559.33 6559.93 0.6 Gear cond.: 0  
 FDEPTH: 369 369 Validity : 0  
 BDEPTH: 369 369 Speed : 2.9 km  
 Towing dir: 0° Wire out : 900 m Catch/hour: 12661.34  
 Sorted : 586 Total catch: 2660.99

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	7180.02	14013	56.71	675
Merluccius paradoxus	1794.77	3821	14.18	677
Merluccius paradoxus	1562.57	2836	12.34	678
Merluccius paradoxus	1470.26	576	11.61	676
Zeus capensis	214.12	171	1.69	674
Genypterus capensis	118.95	109	0.94	671
Trachurus capensis	83.36	114	0.66	679
Caelorinchus simorhynchus	65.42	580	0.52	
Helicolenus dactylopterus	61.86	157	0.49	672
Gonorynchus gonorynchus	23.18	57	0.18	
Squalus asper	21.17	5	0.17	
Todaropsis eblanae	20.84	57	0.16	681
Lophius vomerinus	19.98	10	0.16	673
Cubiceps capensis	8.05	171	0.06	
Todaropsis eblanae	7.42	57	0.06	680
Parapagurus dimorphus	3.43	171	0.03	
Lycoteuthis lorigera	2.40	57	0.02	
Rochinia sp.	1.94	114	0.02	
Rossia enigmatica	0.79	57	0.01	
Chaunax sp., juvenile	0.29	57	0.00	
Setarches juventheri, juvenile	0.29	57	0.00	
P O L Y C H A E T A	0.23	57	0.00	
Total	12661.34		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 67  
 DATE :21/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 34°1.85  
 start stop duration Purpose : 3  
 TIME :06:42:32 06:57:58 15.4 (min) Region : 6000  
 LOG : 6519.65 6520.44 0.8 Gear cond.: 0  
 FDEPTH: 76 81 Validity : 0  
 BDEPTH: 76 81 Speed : 3.1 km  
 Towing dir: 0° Wire out : 200 m Catch/hour: 11313.26  
 Sorted : 435 Total catch: 2911.28

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Trachurus capensis	9000.00	63598	79.55	639
Merluccius capensis	711.14	692	6.29	648
Squalus megalops	504.02	1819	4.46	
Carcharodon carcharias	388.60	4	3.43	
Pterogymnus lanarius	222.67	742	1.97	642
Argyrozoona argyrozoona	197.80	742	1.75	641
Loligo reynaudi	135.23	742	1.20	640
Merluccius capensis	66.06	85	0.58	649
Rhabdosargus globiceps	25.26	62	0.22	646
Rhabdosargus globiceps	15.93	47	0.14	647
Chelidonichthys queketti	14.77	82	0.13	643
Sea cucumber - yellow	14.46	0	0.13	
Merluccius capensis	6.96	82	0.06	650
XXXXXXX	3.11	12	0.03	
Scomber japonicus	2.80	8	0.02	644
Starfish	2.53	412	0.02	
Hermits, mixed	1.09	167	0.01	
Austroglossus pectoralis	0.85	12	0.01	645
Total	11313.26		100.00	



R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 71  
 DATE :21/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 34°26.78  
 start stop duration Purpose : 3  
 TIME :15:01:24 15:18:19 16.9 (min) Region : 6000  
 LOG : 6564.80 6565.46 0.7 Gear cond.: 0  
 FDEPTH: 484 504 Validity : 0  
 BDEPTH: 484 504 Speed : 2.4 km  
 Towing dir: 0° Wire out : 1100 m Catch/hour: 8737.70  
 Sorted : 295 Total catch: 2464.03

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 74  
 DATE :22/01/2010 GEAR TYPE: BT NO: 21 POSITION:Lat S 34°37.41  
 start stop duration Purpose : 3  
 TIME :05:50:49 06:20:37 29.8 (min) Region : 6000  
 LOG : 6652.89 6654.27 1.4 Gear cond.: 0  
 FDEPTH: 487 483 Validity : 0  
 BDEPTH: 487 483 Speed : 2.8 km  
 Towing dir: 0° Wire out : 1100 m Catch/hour: 956.52  
 Sorted : 475 Total catch: 474.91

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP	
	weight numbers			
Merluccius paradoxus	2978.72	4138	34.09	687
Merluccius paradoxus	2689.72	3766	30.78	683
Xiphias gladius	1418.44	4	16.23	
Merluccius paradoxus	1157.80	1943	13.25	686
Merluccius paradoxus	425.53	117	4.87	682
Squalus megalops	27.30	43	0.31	
Genypterus capensis	20.21	11	0.23	684
Todaropsis eblanae	9.06	43	0.10	689
Hydrolagus africanus	3.55	4	0.04	
Cruriraja parcomaculata	2.27	4	0.03	
Zeus capensis	2.13	4	0.02	685
Synaphobranchus kaupii	1.60	7	0.02	
Rochinia sp.	1.28	82	0.01	
Shark eggs	0.08	82	0.00	
Total	8737.70		100.00	

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP	
	weight numbers			
Merluccius paradoxus	354.48	455	37.06	699
Merluccius paradoxus	338.37	425	35.38	701
Genypterus capensis	177.24	52	18.53	697
Synaphobranchus kaupii	42.90	340	4.49	
Merluccius paradoxus	11.48	18	1.20	700
Parapagurus pilosimanus	8.46	423	0.88	
Plesionika martia	7.45	828	0.78	
Caelorinchus simorhynchus	5.84	50	0.61	
Helicolenus dactylopterus	1.81	6	0.19	698
Cruriraja parcomaculata	1.41	2	0.15	
Rochinia sp.	1.31	77	0.14	
Starfish	1.29	0	0.13	
Caelorinchus braueri	1.25	56	0.13	
Raja caudaspinosa	1.01	2	0.11	
Hoplostethus mediterraneus	0.45	6	0.05	
URCHINS	0.36	12	0.04	
Myxine capensis	0.20	2	0.02	
ANTHOZOA (Sea anemones)	0.18	2	0.02	
Symbolophorus boops	0.16	16	0.02	
Projasus parkeri	0.12	2	0.01	
RAJIDAE	0.12	16	0.01	
Sea cucumber	0.12	2	0.01	
Tripterophycis gilchristi	0.08	2	0.01	
GONOSTOMATIDAE	0.07	2	0.01	
ANTHOZOA (Sea anemones)	0.07	2	0.01	0
Cruriraja parcomaculata, juvenile	0.05	2	0.01	
Holohalaelurus sp.	0.04	4	0.00	
Idiacanthus fasciola	0.04	8	0.00	
Caelorinchus sp.	0.02	4	0.00	
Raja leopardus, juvenile	0.02	2	0.00	
Chaunax sp.	0.02	4	0.00	
Diaphus sp.	0.02	2	0.00	
Polyipnus indicus	0.01	4	0.00	
Nezumia sp.	0.01	2	0.00	
Chauliodus sloani	0.01	2	0.00	
MAJIDAE	0.01	2	0.00	
P O L Y C H A E T A	0.01	2	0.00	
Serrivomer beanii	0.01	2	0.00	
Shark eggs	0.01	2	0.00	
Chlorophthalmus punctatus	0.01	2	0.00	
Total	956.52		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 72  
 DATE :21/01/2010 GEAR TYPE: BT NO: 21 POSITION:Lat S 34°27.50  
 start stop duration Purpose : 3  
 TIME :16:50:37 17:05:30 14.9 (min) Region : 6000  
 LOG : 6571.57 6572.38 0.8 Gear cond.: 0  
 FDEPTH: 594 622 Validity : 0  
 BDEPTH: 594 622 Speed : 3.3 km  
 Towing dir: 0° Wire out : 1300 m Catch/hour: 401.11  
 Sorted : 99 Total catch: 99.48

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP	
	weight numbers			
Hydrolagus africanus	106.05	109	26.44	
Merluccius paradoxus	56.45	52	14.07	690
Caelorinchus braueri	43.15	431	10.76	
Raja doutrei	41.53	8	10.35	
Synaphobranchus kaupii	32.26	190	8.04	
Squalus mitsukurii	30.65	16	7.64	
Centrophorus squamosus	28.23	4	7.04	
Merluccius paradoxus	20.16	48	5.03	691
Raja wallacei	11.69	8	2.92	
Notacanthus sexspinis	8.06	97	2.01	
Squalus asper	5.65	4	1.41	
Nezumia sp.	5.44	44	1.36	
Rochinia sp.	5.20	234	1.30	
Etmopterus brachyurus	1.21	12	0.30	
Plesionika martia	1.01	169	0.25	
Oreosoma atlanticum	0.97	12	0.24	
Todaropsis eblanae	0.70	4	0.17	692
Starfish - rough	0.40	97	0.10	
Starfish	0.39	4	0.10	
Nezumia sp.	0.31	40	0.08	0
Chlorophthalmus punctatus	0.28	4	0.07	
Hoplostethus mediterraneus	0.25	129	0.06	
Caelorinchus simorhynchus	0.20	4	0.05	
G A S T R O P O D S	0.17	8	0.04	
Aristeus varidens	0.16	4	0.04	
Raja leopardus, juvenile	0.15	24	0.04	
URCHINS	0.11	12	0.03	
Munidopsis sp.	0.07	20	0.02	
Tripterophycis gilchristi	0.05	8	0.01	
Polyipnus indicus	0.03	8	0.01	
Shark eggs	0.01	8	0.00	
Total	400.98		99.97	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 75  
 DATE :22/01/2010 GEAR TYPE: BT NO: 21 POSITION:Lat S 34°35.79  
 start stop duration Purpose : 3  
 TIME :08:05:48 08:35:30 29.7 (min) Region : 6000  
 LOG : 6661.20 6662.47 1.3 Gear cond.: 0  
 FDEPTH: 417 422 Validity : 0  
 BDEPTH: 417 422 Speed : 2.6 km  
 Towing dir: 0° Wire out : 940 m Catch/hour: 4098.13  
 Sorted : 362 Total catch: 2028.57

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP	
	weight numbers			
Merluccius paradoxus	2137.37	3079	52.15	704
Merluccius paradoxus	1498.99	2010	36.58	710
Merluccius paradoxus	371.72	582	9.07	709
Todaropsis eblanae	33.45	186	0.82	708
Genypterus capensis	14.34	10	0.35	703
Helicolenus dactylopterus	8.12	24	0.20	705
Todaropsis eblanae	8.04	71	0.20	707
Zeus capensis	7.07	2	0.17	
Hermits, mixed	4.77	582	0.12	
Caelorinchus simorhynchus	3.72	34	0.09	
Cynoglossus zanzibarensis	3.27	24	0.08	706
Holohalaelurus regani	2.91	12	0.07	
Parapagurus pilosimanus	2.67	174	0.07	
Lycoteuthis lorigera	0.53	12	0.01	
Symplectoteuthis ovalaniensis	0.32	2	0.01	
Starfish - rough	0.24	24	0.01	
Mursia cristimanus	0.24	34	0.01	
Rochinia sp.	0.12	12	0.00	
G A S T R O P O D S	0.12	24	0.00	
Cubiceps capensis	0.10	12	0.00	
Total	4098.13		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 73  
 DATE :22/01/2010 GEAR TYPE: BT NO: 21 POSITION:Lat S 34°39.26  
 start stop duration Purpose : 3  
 TIME :03:50:47 04:21:23 30.6 (min) Region : 6000  
 LOG : 6646.45 6647.94 1.5 Gear cond.: 0  
 FDEPTH: 598 591 Validity : 0  
 BDEPTH: 598 591 Speed : 2.9 km  
 Towing dir: 0° Wire out : 1320 m Catch/hour: 186.33  
 Sorted : 95 Total catch: 95.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP	
	weight numbers			
Synaphobranchus kaupii	55.70	406	29.90	
Merluccius paradoxus	54.92	43	29.48	695
Etmopterus lucifer	22.16	33	11.90	
Caelorinchus braueri	19.61	467	10.53	
Hydrolagus africanus	6.28	6	3.37	
Notacanthus sexspinis	3.92	61	2.11	
Helicolenus dactylopterus	3.53	12	1.89	694
Histioteuthis miranda	2.94	2	1.58	
Todarodes filippove	2.35	2	1.26	696
Rochinia sp.	2.04	92	1.09	
Oreosoma atlanticum	1.96	24	1.05	
URCHINS	1.88	67	1.01	
Genypterus capensis	1.37	2	0.74	693
Eptatretus profundus	0.88	2	0.47	
Starfish	0.88	116	0.47	
Anemones, pink	0.72	2	0.38	
Beryx splendens	0.69	2	0.37	
Ancistrocheirus lesueurii	0.67	2	0.36	
Dalatia licha	0.59	2	0.32	
Sea cucumber	0.43	8	0.23	
Plesionika martia	0.36	55	0.19	
Chauliodus sloani	0.32	16	0.17	
G A S T R O P O D S	0.28	12	0.15	
Parapagurus pilosimanus	0.26	24	0.14	
JELLYFISH	0.25	2	0.14	
Raja sp., juvenile	0.25	27	0.13	
Idiacanthus fasciola	0.18	4	0.09	
Myxine capensis	0.16	4	0.08	
Lycoteuthis lorigera	0.09	2	0.05	
Nezumia sp.	0.08	16	0.04	
Psychrolutes macrocephalus	0.07	2	0.04	
P O L Y C H A E T A	0.06	14	0.03	
Desdemonia sp., juvenile	0.06	2	0.03	
Caelorinchus sp.	0.06	2	0.03	
Diaphus sp.	0.06	8	0.03	
Raja leopardus, juvenile	0.05	6	0.03	
OCOCEPHALIDAE	0.05	2	0.03	
Bathypolypus valdiviae	0.04	2	0.02	
Symphurus sp.	0.03	2	0.02	
XXXXXXX	0.02	2	0.01	
Gymnoscopus sp.	0.02	2	0.01	
Idiacanthus atlanticus	0.02	2	0.01	
Eustomias sp.	0.01	2	0.01	
Shark eggs	0.00	2	0.00	
Total	186.33		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 76  
 DATE :22/01/2010 GEAR TYPE: BT NO: 21 POSITION:Lat S 34°34.20  
 start stop duration Purpose : 3  
 TIME :09:56:34 10:23:10 26.6 (min) Region : 6000  
 LOG : 6668.26 6669.71 1.5 Gear cond.: 0  
 FDEPTH: 212 227 Validity : 0  
 BDEPTH: 212 227 Speed : 3.3 km  
 Towing dir: 0° Wire out : 490 m Catch/hour: 1359.56  
 Sorted : 180 Total catch: 602.74

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP	
	weight numbers			
Merluccius paradoxus	721.80	1940	53.09	702
Merluccius paradoxus	356.39	986	26.21	711
Zeus capensis	110.53	189	8.13	713
Trachurus capensis	48.72	153	3.58	718
Helicolenus dactylopterus	32.71	133	2.41	717
Merluccius paradoxus	31.47	41	2.31	712
Todaropsis eblanae	18.38	113	1.35	722
Lophius vomerinus	7.22	2	0.53	716
Loligo reynaudi	6.20	11	0.46	719
Lepidopus caudatus	5.86	5	0.43	
Chelidonichthys queketti	5.19	32	0.38	720
Todaropsis eblanae	4.38	52	0.32	721
Pterogymnus lanarius	4.29	7	0.32	715
Octopus magnificus	4.17	5	0.31	
Squalus megalops	1.35	2	0.10	
Genypterus capensis	0.90	2	0.07	714
Total	1359.56		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 77  
 DATE :22/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 34°23.20  
 start stop duration Purpose : 3  
 TIME :12:32:52 13:02:54 30.0 (min) Lon E 25°6.53  
 LOG : 6684.65 6685.96 1.3 Region : 6000  
 FDEPTH: 130 130 Gear cond.: 0  
 BDEPTH: 130 130 Validity : 0  
 Towing dir: 0° Wire out : 310 m Speed : 2.6 km  
 Sorted : 191 Total catch: 190.82 Catch/hour: 381.26

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 80  
 DATE :23/01/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 34°15.52  
 start stop duration Purpose : 3  
 TIME :04:32:48 05:02:30 29.7 (min) Lon E 24°25.62  
 LOG : 6819.47 6820.99 1.5 Region : 6000  
 FDEPTH: 103 110 Gear cond.: 0  
 BDEPTH: 103 110 Validity : 0  
 Towing dir: 0° Wire out : 250 m Speed : 3.1 km  
 Sorted : 202 Total catch: 202.36 Catch/hour: 408.81

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Squalus megalops	161.84	424	42.45	723
Squalus megalops	65.93	204	17.29	724
Pterogymnus lanarius	47.95	116	12.58	725
Merluccius capensis	28.17	60	7.39	733
Merluccius capensis	21.38	52	5.61	734
Gonorynchus gonorynchus	11.59	72	3.04	734
Chelidonichthys queketti	9.99	66	2.62	727
Callorhynchus capensis	7.19	2	1.89	727
Congiopodus spinifer	5.99	36	1.57	726
Loligo reynaudi	5.00	26	1.31	736
Zeus capensis	3.40	12	0.89	726
Loligo reynaudi	3.20	14	0.84	735
Congiopodus torvus	3.00	2	0.79	726
Mustelus palumbes	2.70	6	0.71	726
Genypteris capensis	1.16	4	0.30	729
Trachurus capensis	0.92	6	0.24	728
Helicolenus dactylopterus	0.52	2	0.14	730
Todaropsis eblanae	0.41	4	0.11	731
Todaropsis eblanae	0.40	2	0.10	732
Etrumeus whiteheadi	0.38	6	0.10	732
Starfish	0.14	6	0.04	732
Mursia cristimanus	0.02	2	0.00	732
URCHINS	0.00	2	0.00	732
Total	381.26		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius capensis	206.06	234	50.41	760
Merluccius capensis	72.73	109	17.79	761
Etrumeus whiteheadi	48.48	1731	11.86	761
Mustelus palumbes	21.21	8	5.19	761
Trachurus capensis	16.57	97	4.05	750
Callorhynchus capensis	15.96	4	3.90	750
Loligo reynaudi	7.62	22	1.86	757
Loligo reynaudi	5.74	32	1.40	758
Merluccius capensis	4.67	194	1.14	754
Cynoglossus zanzibarensis	2.02	10	0.49	752
Zeus capensis	1.68	10	0.41	753
Lolligoncula mercatoris	1.21	606	0.30	753
Sepia australis	1.09	137	0.27	753
JELLYFISH	1.09	0	0.27	753
Genypteris capensis	1.01	2	0.25	755
Palinurus gilchristi	0.55	2	0.13	751
Chelidonichthys queketti	0.46	2	0.11	756
Scyliorhinus capensis	0.26	2	0.06	756
TETRAODONTIDAE	0.10	2	0.02	756
Loligo reynaudi	0.10	16	0.02	759
Inioteuthis capensis	0.09	73	0.02	759
Engraulis capensis	0.07	6	0.02	759
Paracallionymus costatus	0.01	4	0.00	759
Champsodon capensis	0.01	2	0.00	759
Helicolenus dactylopterus	0.00	2	0.00	762
Total	408.81		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 78  
 DATE :22/01/2010 GEAR TYPE: BT NO: 6 POSITION:Lat S 34°10.30  
 start stop duration Purpose : 3  
 TIME :15:03:16 15:33:38 30.4 (min) Lon E 25°5.01  
 LOG : 6702.11 6703.62 1.5 Region : 6000  
 FDEPTH: 77 86 Gear cond.: 8  
 BDEPTH: 77 86 Validity : 3  
 Towing dir: 0° Wire out : 200 m Speed : 3.0 km  
 Sorted : 275 Total catch: 275.34 Catch/hour: 544.15

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 81  
 DATE :23/01/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 34°23.59  
 start stop duration Purpose : 3  
 TIME :06:32:07 07:02:10 30.1 (min) Lon E 24°23.89  
 LOG : 6830.69 6832.14 1.5 Region : 6000  
 FDEPTH: 129 127 Gear cond.: 0  
 BDEPTH: 129 127 Validity : 0  
 Towing dir: 0° Wire out : 320 m Speed : 2.9 km  
 Sorted : 255 Total catch: 254.70 Catch/hour: 508.21

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Pterogymnus lanarius	337.94	713	62.10	737
Etrumeus whiteheadi	43.48	966	7.99	737
Merluccius capensis	26.28	28	4.83	738
Trachurus capensis	25.69	375	4.72	743
Spicara axillaris	19.76	57	3.63	743
Engraulis capensis	18.77	1174	3.45	743
Gonorynchus gonorynchus	16.60	36	3.05	743
Coral - mixed	13.83	0	2.54	743
Argyrozoona argyrozoona	11.86	22	2.18	739
Callorhynchus capensis	9.88	2	1.82	739
Congiopodus torvus	3.95	2	0.73	739
Parascorpius typus	3.16	2	0.58	741
URCHINS	2.83	53	0.52	741
Loligo reynaudi	2.02	14	0.37	745
Chelidonichthys capensis	1.58	2	0.29	740
Umbrina canariensis	1.48	6	0.27	742
Scomber japonicus	1.25	6	0.23	746
Starfish	0.83	12	0.15	746
Squalus megalops	0.59	2	0.11	744
Loligo reynaudi	0.57	2	0.11	744
Chelodactylus pixi	0.54	2	0.10	744
Chelidonichthys queketti	0.44	4	0.08	747
Genypteris capensis	0.25	2	0.05	748
Sardinops ocellatus	0.18	2	0.03	748
Congiopodus spinifer	0.18	2	0.03	748
C R A B S	0.05	2	0.01	749
Loligo reynaudi	0.04	8	0.01	749
Sepia australis	0.03	4	0.00	749
Hermits, mixed	0.02	2	0.00	749
Nudibranchs	0.02	2	0.00	749
Mursia cristimanus	0.01	4	0.00	749
Pycnogonid	0.01	6	0.00	749
Total	544.15		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius capensis	225.47	387	44.37	764
Pterogymnus lanarius	99.77	206	19.63	763
Squalus megalops	67.84	0	13.35	763
Scyliorhinus capensis	49.88	295	9.82	763
Trachurus capensis	16.76	92	3.30	767
Zeus capensis	8.78	44	1.73	766
Callorhynchus capensis	7.98	2	1.57	766
Loligo reynaudi	5.79	14	1.14	771
Chelidonichthys queketti	4.97	32	0.98	770
Loligo reynaudi	4.59	22	0.90	772
Lophius vomerinus	3.99	2	0.79	765
Helicolenus dactylopterus	3.29	8	0.65	768
Etrumeus whiteheadi	1.92	0	0.38	768
Loligo reynaudi	1.60	148	0.31	773
Lolligoncula mercatoris	1.38	345	0.27	773
Congiopodus spinifer	1.36	12	0.27	773
Palinurus gilchristi	0.92	4	0.18	774
Chelidonichthys capensis	0.86	2	0.17	769
JELLYFISH	0.66	2	0.13	769
Engraulis capensis	0.18	14	0.03	769
Inioteuthis capensis	0.12	8	0.02	769
Sepia australis	0.12	18	0.02	769
ISOPODS	0.01	4	0.00	769
Molluscs	0.00	2	0.00	769
Total	508.21		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 79  
 DATE :22/01/2010 GEAR TYPE: BT NO: 21 POSITION:Lat S 34°1.87  
 start stop duration Purpose : 3  
 TIME :17:11:12 17:31:16 20.1 (min) Lon E 25°4.91  
 LOG : 6715.71 6716.70 1.0 Region : 6000  
 FDEPTH: 40 42 Gear cond.: 8  
 BDEPTH: 40 42 Validity : 9  
 Towing dir: 0° Wire out : 135 m Speed : 2.9 km  
 Sorted : 0 Total catch: 0.00 Catch/hour: 0.00

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 82  
 DATE :23/01/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 34°43.86  
 start stop duration Purpose : 3  
 TIME :12:21:35 12:51:53 30.3 (min) Lon E 24°28.37  
 LOG : 6879.17 6880.69 1.5 Region : 6000  
 FDEPTH: 204 201 Gear cond.: 0  
 BDEPTH: 204 201 Validity : 0  
 Towing dir: 0° Wire out : 490 m Speed : 3.0 km  
 Sorted : 192 Total catch: 191.56 Catch/hour: 379.33

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Coral - mixed	0.00	0	0.00	
Myliobatis aquila	0.00	0	0.00	
Callorhynchus capensis	0.00	0	0.00	
Squalus megalops	0.00	0	0.00	
Loligo reynaudi	0.00	0	0.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Helicolenus dactylopterus	110.89	562	29.23	779
Chelidonichthys queketti	59.41	428	15.66	777
Merluccius capensis	47.52	20	12.53	775
Zeus capensis	41.58	63	10.96	780
Merluccius paradoxus	39.60	127	10.44	784
Lepidopus caudatus	24.75	18	6.53	784
Lophius vomerinus	11.88	4	3.13	781
Todaropsis eblanae	9.70	81	2.56	785
Todaropsis eblanae	9.60	53	2.53	786
Pterogymnus lanarius	7.92	14	2.09	782
Trachurus capensis	5.94	20	1.57	778
Genypteris capensis	4.95	14	1.31	776
Congiopodus torvus	2.97	2	0.78	776
Squalus megalops	0.63	2	0.17	776
Loligo reynaudi	0.57	2	0.15	783
Gonorynchus gonorynchus	0.48	2	0.13	783
Congiopodus spinifer	0.36	4	0.09	783
Scyliorhinus capensis	0.32	2	0.08	783
Holohalaelurus regani	0.22	2	0.06	783
Sepia australis	0.02	4	0.01	783
Total	379.33		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 83  
 DATE :23/01/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 34°46.17  
 start stop duration Purpose : 3  
 TIME :14:11:35 14:41:36 30.0 (min) Lon E 24°23.74  
 LOG : 6887.53 6889.15 1.6 Region : 6000  
 FDEPTH: 343 355 Gear cond.: 0  
 BDEPTH: 343 355 Validity : 0  
 Towing dir: 0° Wire out : 800 m Speed : 3.2 km  
 Sorted : 249 Total catch: 1059.19 Catch/hour: 2116.97

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 87  
 DATE :24/01/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 34°53.69  
 start stop duration Purpose : 3  
 TIME :09:09:43 09:39:45 30.0 (min) Lon E 23°30.96  
 LOG : 7026.65 7028.18 1.5 Region : 6000  
 FDEPTH: 219 211 Gear cond.: 0  
 BDEPTH: 219 211 Validity : 0  
 Towing dir: 0° Wire out : 550 m Speed : 3.0 km  
 Sorted : 314 Total catch: 313.87 Catch/hour: 627.12

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Zeus capensis	1730.85	3490	81.76	789
Merluccius paradoxus	99.93	286	4.72	794
Merluccius paradoxus	73.95	106	3.49	795
Genypterus capensis	65.96	64	3.12	788
Todaropsis eblanae	46.71	386	2.21	791
Merluccius capensis	31.98	8	1.51	787
Todaropsis eblanae	29.38	140	1.39	792
Lepidopus caudatus	19.79	18	0.93	
Lophius vomerinus	7.99	4	0.38	790
Caelorinchus simorhynchus	5.90	42	0.28	
Mustelus palumbes	4.00	4	0.19	
Rossia enigmatica	0.54	36	0.03	
Maurolicus muelleri	0.00	0	0.00	
Total	2116.97		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius capensis	185.81	88	29.63	825
Chelidonichthys queketti	101.90	735	16.25	812
Merluccius paradoxus	101.90	342	16.25	817
Squalus megalops	59.94	154	9.56	
Lophius vomerinus	45.95	18	7.33	815
Zeus capensis	32.37	46	5.16	816
Helicolenus dactylopterus	24.78	112	3.95	814
Loligo reynaudi	10.19	64	1.62	821
Genypterus capensis	7.19	18	1.15	813
Loligo reynaudi	6.39	34	1.02	820
Todaropsis eblanae	6.29	38	1.00	823
Merluccius capensis	5.99	4	0.96	824
Raja straeleni	5.79	2	0.92	
Mustelus palumbes	4.40	2	0.70	
Todaropsis eblanae	4.30	36	0.68	822
Congiopodus torvus	3.90	2	0.62	
Trachurus capensis	2.80	10	0.45	819
Gonorhynchus gonorhynchus	2.74	12	0.44	
Merluccius paradoxus	2.60	2	0.41	826
Scyliorhinus capensis	2.30	12	0.37	
Holohalaelurus regani	2.02	4	0.32	
Lepidopus caudatus	2.00	2	0.32	
Cruriraja parcomaculata	2.00	6	0.32	
Cynoglossus zanzibarensis	1.58	8	0.25	818
Caelorinchus simorhynchus	1.16	8	0.19	
Sepia australis	0.56	50	0.09	
Rossia enigmatica	0.13	6	0.02	
Nezumia sp.	0.06	2	0.01	
Lucigadus ori	0.06	4	0.01	
Champsodon capensis	0.03	2	0.00	
Xenolepidichthys dagleishi	0.01	2	0.00	
Total	627.12		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 84  
 DATE :23/01/2010 GEAR TYPE: BT NO: 21 POSITION:Lat S 34°50.65  
 start stop duration Purpose : 3  
 TIME :16:04:54 16:35:19 30.4 (min) Lon E 24°25.92  
 LOG : 6897.55 6899.04 1.5 Region : 6000  
 FDEPTH: 440 435 Gear cond.: 0  
 BDEPTH: 440 435 Validity : 0  
 Towing dir: 0° Wire out : 1000 m Speed : 2.9 km  
 Sorted : 424 Total catch: 2140.48 Catch/hour: 4221.85

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	2311.64	4207	54.75	802
Merluccius paradoxus	762.72	1371	18.07	804
Merluccius paradoxus	362.33	801	8.58	803
Caelorinchus simorhynchus	316.57	659	7.50	
Genypterus capensis	209.07	63	4.95	796
Squalus mitsukurii	80.87	49	1.92	
Merluccius paradoxus	51.28	24	1.21	797
Octopus magnificus	32.15	6	0.76	
Helicolenus dactylopterus	31.56	43	0.75	801
Lophius vomerinus	29.59	6	0.70	800
ANTHOZOA (Sea anemones)	6.92	37	0.16	
Merluccius capensis	5.92	2	0.14	798
Parapagurus pilosimanus	5.72	363	0.14	
Zeus capensis	5.13	2	0.12	799
Rossia enigmatica	3.66	134	0.09	
URCHINS	3.08	20	0.07	
Chlorophthalmus punctatus	0.97	20	0.02	
Molluscs	0.92	57	0.02	
Lucigadus ori	0.50	57	0.01	
Symbolophorus boops	0.48	57	0.01	
Parapagurus dimorphus	0.46	57	0.01	
Paracalliionymus costatus	0.34	57	0.01	
Total	4221.85		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 88  
 DATE :24/01/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 34°30.30  
 start stop duration Purpose : 3  
 TIME :14:20:49 14:50:42 29.9 (min) Lon E 23°16.31  
 LOG : 7069.56 7071.08 1.5 Region : 6000  
 FDEPTH: 118 118 Gear cond.: 0  
 BDEPTH: 118 118 Validity : 0  
 Towing dir: 0° Wire out : 300 m Speed : 3.1 km  
 Sorted : 172 Total catch: 475.74 Catch/hour: 954.98

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Pterogymnus lanarius	555.04	1349	58.12	830
Merluccius capensis	116.83	247	12.23	835
Merluccius capensis	75.28	191	7.88	836
Squalus megalops	75.18	211	7.87	
Merluccius capensis	56.21	64	5.89	833
Merluccius capensis	28.10	26	2.94	834
Etrumeus whiteheadi	8.15	169	0.85	
Callorhynchus capensis	6.42	2	0.67	
Raja straeleni	6.02	4	0.63	
Loligo reynaudi	4.94	22	0.52	837
Trachurus capensis	4.86	22	0.51	829
Congiopodus torvus	4.01	2	0.42	
Zeus capensis	3.61	2	0.38	828
Chelidonichthys queketti	2.18	14	0.23	831
Congiopodus spinifer	2.11	14	0.22	
Loligo reynaudi	2.01	8	0.21	838
Scyliorhinus capensis	1.90	14	0.20	
Loligo reynaudi	1.14	92	0.12	832
Genypterus capensis	1.00	2	0.11	827
Total	954.98		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 85  
 DATE :24/01/2010 GEAR TYPE: BT NO: 21 POSITION:Lat S 35°5.09  
 start stop duration Purpose : 3  
 TIME :03:50:03 03:54:50 4.8 (min) Lon E 23°36.17  
 LOG : 6996.72 6996.88 0.2 Region : 6000  
 FDEPTH: 595 595 Gear cond.: 8  
 BDEPTH: 595 595 Validity : 9  
 Towing dir: 0° Wire out : 1440 m Speed : 2.0 km  
 Sorted : 16 Total catch: 16.00 Catch/hour: 200.84

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Helicolenus dactylopterus	125.52	0	62.50	
Merluccius paradoxus	75.31	0	37.50	
Total	200.84		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 89  
 DATE :24/01/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 34°23.52  
 start stop duration Purpose : 3  
 TIME :16:27:30 16:52:57 25.5 (min) Lon E 23°25.65  
 LOG : 7082.47 7083.69 1.2 Region : 6000  
 FDEPTH: 113 114 Gear cond.: 0  
 BDEPTH: 113 114 Validity : 0  
 Towing dir: 0° Wire out : 280 m Speed : 2.9 km  
 Sorted : 120 Total catch: 119.62 Catch/hour: 282.01

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Loligo reynaudi	96.66	347	34.28	848
Loligo reynaudi	51.87	257	18.39	849
Pterogymnus lanarius	49.51	130	17.56	841
Congiopodus spinifer	16.27	75	5.77	
Helicolenus dactylopterus	14.62	191	5.18	843
Merluccius capensis	11.79	24	4.18	839
Callorhynchus capensis	10.37	2	3.68	
Loligo reynaudi	6.04	453	2.14	847
Zeus capensis	4.60	24	1.63	842
Genypterus capensis	4.01	12	1.42	840
Congiopodus torvus	4.01	2	1.42	
JELLYFISH	2.83	0	1.00	
Chelidonichthys queketti	2.69	21	0.95	844
Hapllolepharus edwardsii	2.33	2	0.83	
Scyliorhinus capensis	2.00	2	0.71	
Etrumeus whiteheadi	0.71	12	0.25	
Trachurus capensis	0.54	2	0.19	845
Cynoglossus zanzibarensis	0.43	2	0.15	846
Engraulis capensis	0.25	17	0.09	
Sepia australis	0.24	59	0.08	
Sardinops ocellatus	0.16	2	0.06	
URCHINS	0.09	5	0.03	
Molluscs	0.02	2	0.01	
Total	282.01		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 86  
 DATE :24/01/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 35°2.32  
 start stop duration Purpose : 3  
 TIME :05:58:46 06:27:53 29.1 (min) Lon E 23°33.52  
 LOG : 7005.77 7007.37 1.6 Region : 6000  
 FDEPTH: 482 472 Gear cond.: 0  
 BDEPTH: 482 472 Validity : 0  
 Towing dir: 0° Wire out : 1080 m Speed : 3.3 km  
 Sorted : 257 Total catch: 257.01 Catch/hour: 529.56

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	125.69	286	23.73	807
Helicolenus dactylopterus	100.96	313	19.07	806
Merluccius paradoxus	92.72	190	17.51	810
Merluccius paradoxus	76.24	183	14.40	811
Caelorinchus simorhynchus	41.21	274	7.78	
Genypterus capensis	41.21	12	7.78	805
Todaropsis eblanae	19.16	115	3.62	809
Octopus magnificus	15.66	2	2.96	
Todaropsis eblanae	7.62	62	1.44	808
Squalus mitsukurii	4.12	2	0.78	
Lucigadus ori	2.27	126	0.43	
Rossia enigmatica	1.27	54	0.24	
Symbolophorus boops	1.17	128	0.22	
Tripterygius gilchristi	0.14	2	0.03	
Coelorinchus sp.	0.07	2	0.01	
Holohalaelurus regani, juvenile	0.03	2	0.01	
Zenion sp.	0.01	2	0.00	
Caelorinchus braueri, juvenile	0.01	2	0.00	
Total	529.56		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 90  
 DATE :25/01/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 34°6.71  
 start stop duration Purpose : 3  
 TIME :04:23:33 04:53:51 30.3 (min) Lon E 22°23.18  
 LOG : 7174.80 7176.40 1.6 Region : 6000  
 FDEPTH: 50 50 Gear cond.: 0  
 BDEPTH: 50 50 Validity : 0  
 Towing dir: 0° Wire out : 140 m Speed : 3.2 km  
 Sorted : 148 Total catch: 294.91 Catch/hour: 583.97

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 93  
 DATE :25/01/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 34°49.62  
 start stop duration Purpose : 3  
 TIME :13:04:18 13:34:22 30.1 (min) Lon E 22°31.49  
 LOG : 7236.08 7237.61 1.5 Region : 6000  
 FDEPTH: 121 121 Gear cond.: 0  
 BDEPTH: 121 121 Validity : 0  
 Towing dir: 0° Wire out : 300 m Speed : 3.1 km  
 Sorted : 258 Total catch: 763.14 Catch/hour: 1522.73

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius capensis	269.31	5509	46.12	854
Austroglossus pectoralis	81.19	1251	13.90	850
Callorhynchus capensis	71.29	0	12.21	
Starfish	38.42	0	6.58	
Engraulis capensis	29.86	3733	5.11	
Cynoglossus zanzibarensis	16.95	673	2.90	853
Etrumeus whiteheadi	16.08	606	2.75	
Raja alba	10.10	4	1.73	
Raja miraletus	7.03	12	1.20	
Galeichthys feliceps	6.10	16	1.04	
Mustelus mustelus, female	5.35	2	0.92	
Genypterus capensis	4.95	4	0.85	852
Squalus megalops	4.55	20	0.78	
Raja straeleni	4.36	4	0.75	
Priapulida	3.74	277	0.64	
Haploblepharus edwardsii	3.23	4	0.55	
Torpedo fuscomaculata	2.61	24	0.45	
Callorhynchus capensis	2.06	8	0.35	0
Mustelus palumbes	1.98	0	0.34	
JELLYFISH	1.35	0	0.23	
Argyrosomus inodorus	1.22	4	0.21	851
G A S T R O P O D S	0.90	277	0.15	
Goneplax angulata	0.47	79	0.08	
Umbrina canariensis	0.33	2	0.06	855
Marke capensis	0.26	4	0.04	
Stromateus fiatola, juvenile	0.13	8	0.02	
Chelidonichthys capensis	0.08	2	0.01	856
PORTUNIDAE	0.08	16	0.01	
Rochinia sp.	0.02	8	0.00	
Total	583.97		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 91  
 DATE :25/01/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 34°13.74  
 start stop duration Purpose : 3  
 TIME :06:09:14 06:29:14 20.0 (min) Lon E 22°20.93  
 LOG : 7184.67 7185.62 1.0 Region : 6000  
 FDEPTH: 70 72 Gear cond.: 0  
 BDEPTH: 70 72 Validity : 0  
 Towing dir: 0° Wire out : 170 m Speed : 2.9 km  
 Sorted : 83 Total catch: 525.63 Catch/hour: 1576.10

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Engraulis capensis	1214.39	110399	77.05	
Etrumeus whiteheadi	150.67	6027	9.56	
Loligo reynaudi	65.22	2678	4.12	865
Merluccius capensis	61.84	945	3.94	863
Merluccius capensis	20.99	24	1.33	857
Callorhynchus capensis	16.49	15	1.05	
Starfish	12.89	0	0.82	
Loligo reynaudi	6.91	24	0.44	866
Mursia cristimanus	4.95	180	0.31	
G A S T R O P O D S	3.01	1238	0.19	
Syngnathus acus	2.65	270	0.17	
Chelidonichthys queketti	2.55	18	0.16	864
Sardinops ocellatus	2.36	69	0.15	
Austroglossus pectoralis	2.11	9	0.13	858
Priapulida	2.05	270	0.13	
Cynoglossus zanzibarensis	1.91	45	0.12	862
Hermits, mixed	1.69	204	0.11	
Chelidonichthys capensis	1.00	3	0.06	859
Sepia australis	0.69	90	0.04	
Scomber japonicus	0.51	6	0.03	861
Nudibranchs	0.38	90	0.02	
Halaerulus natalensis	0.30	3	0.02	
Jasus lalandii	0.26	3	0.02	860
Paracallionymus costatus	0.13	24	0.01	
Rochinia sp.	0.09	24	0.01	
Sepia typica	0.04	24	0.00	
Total	1576.11		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 92  
 DATE :25/01/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 34°30.05  
 start stop duration Purpose : 3  
 TIME :08:58:38 09:29:09 30.5 (min) Lon E 22°27.05  
 LOG : 7204.29 7205.82 1.5 Region : 6000  
 FDEPTH: 96 93 Gear cond.: 0  
 BDEPTH: 96 93 Validity : 0  
 Towing dir: 0° Wire out : 230 m Speed : 3.0 km  
 Sorted : 231 Total catch: 275.82 Catch/hour: 542.06

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Pterogymnus lanarius	106.13	206	19.58	872
Merluccius capensis	76.65	138	14.14	870
PORIFERA (Sponges)	76.65	10949	14.14	
Merluccius capensis	50.11	37	9.25	867
Callorhynchus capensis	50.11	29	9.25	
Merluccius capensis	40.29	22	7.43	868
Chelidonichthys capensis	25.55	47	4.71	869
Chelidonichthys queketti	21.62	202	3.99	873
Starfish	20.64	0	3.81	
Merluccius capensis	13.76	20	2.54	871
Mustelus palumbes	9.83	6	1.81	
Nudibranchs	9.43	1047	1.74	
Etrumeus whiteheadi	5.72	159	1.06	
Black sand dollar	5.66	59	1.04	
Loligo reynaudi	5.50	24	1.02	874
Mursia cristimanus	3.66	281	0.67	
Scyliorhinus capensis	2.75	12	0.51	
G A S T R O P O D S	2.64	165	0.49	
Loligo reynaudi	2.57	20	0.47	875
Squalus megalops	2.54	6	0.47	
Loligo reynaudi	2.30	330	0.42	879
Austroglossus pectoralis	1.83	10	0.34	878
Sepia australis	1.78	350	0.33	
Haploblepharus edwardsii	0.98	2	0.18	
Rhabdosargus globiceps	0.78	2	0.14	877
JELLYFISH	0.74	12	0.14	
Gonorynchus gonorynchus	0.71	6	0.13	
Palinurus gilchristi	0.39	2	0.07	876
Hermits, mixed	0.29	12	0.05	
Mollusc eggs	0.19	0	0.04	
Rochinia sp.	0.15	35	0.03	
Exodromidia sp.	0.08	6	0.01	
Syngnathus acus	0.05	6	0.01	
Pycnogonid	0.01	6	0.00	
Total	542.06		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Pterogymnus lanarius	515.80	1383	33.87	884
Squalus megalops	186.56	605	12.25	
Merluccius capensis	153.64	692	10.09	886
Merluccius capensis	139.67	84	9.17	893
URCHINS	109.74	0	7.21	
Merluccius capensis	71.83	54	4.72	892
Trachurus capensis	49.48	561	3.25	883
Galeorhinus galeus	35.92	2	2.36	
Loligo reynaudi	32.92	2959	2.16	894
Loligo reynaudi	32.92	198	2.16	890
Helicolenus dactylopterus	26.44	231	1.74	882
Loligo reynaudi	26.34	253	1.73	891
URCHINS	21.95	844	1.44	0
Starfish	15.69	301	1.03	
Callorhynchus capensis	14.47	6	0.95	
Chelidonichthys capensis	13.17	12	0.86	887
Genypterus capensis	11.31	34	0.74	888
Chelidonichthys queketti	11.11	78	0.73	881
Lophius vomerinus	10.58	4	0.69	880
Zeus capensis	10.18	12	0.67	889
Congiopodus torvus	8.78	4	0.58	
Raja straeleni	4.99	8	0.33	
Raja wallacei	4.59	6	0.30	
Etrumeus whiteheadi	3.95	88	0.26	
Congiopodus spinifer	3.85	34	0.25	
Raja straeleni	3.53	12	0.23	0
Cynoglossus zanzibarensis	1.71	12	0.11	885
Sepia australis	0.66	253	0.04	
Mursia cristimanus	0.34	34	0.02	
Nudibranchs	0.24	22	0.02	
Molluscs	0.22	88	0.01	
Paracallionymus costatus	0.12	22	0.01	
Rochinia sp.	0.01	12	0.00	
Total	1522.73		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 94  
 DATE :26/01/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 35°41.93  
 start stop duration Purpose : 3  
 TIME :08:31:25 09:01:51 30.4 (min) Lon E 21°37.18  
 LOG : 7333.45 7335.05 1.6 Region : 6000  
 FDEPTH: 140 144 Gear cond.: 0  
 BDEPTH: 140 144 Validity : 0  
 Towing dir: 0° Wire out : 350 m Speed : 3.1 km  
 Sorted : 349 Total catch: 605.98 Catch/hour: 1195.22

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Pterogymnus lanarius	249.70	446	20.89	904
Squalus megalops	195.27	586	16.34	
Merluccius capensis	138.07	156	11.55	902
Merluccius capensis	134.12	172	11.22	897
Merluccius capensis	104.54	32	8.75	895
Merluccius capensis	86.79	63	7.26	896
Merluccius capensis	78.90	103	6.60	903
Trachurus capensis	65.09	359	5.45	906
Loligo reynaudi	37.97	424	3.18	910
Loligo reynaudi	23.87	217	2.00	909
Callorhynchus capensis	21.70	10	1.82	
Helicolenus dactylopterus	10.95	164	0.92	905
Black sand dollar	10.85	22	0.91	
Chelidonichthys queketti	10.43	77	0.87	907
Starfish	4.89	0	0.41	
Rhabdosargus globiceps	3.55	4	0.30	900
G A S T R O P O D S	3.36	586	0.28	
Lophius vomerinus	2.96	4	0.25	899
Cynoglossus zanzibarensis	2.27	12	0.19	912
Loligo reynaudi	2.17	120	0.18	911
Raja wallacei	1.97	2	0.17	
Zeus capensis	1.62	12	0.14	913
Raja straeleni	1.58	2	0.13	
Genypterus capensis	0.59	2	0.05	898
Sepia australis	0.54	65	0.05	
Palinurus gilchristi	0.47	2	0.04	901
Parapagurus dimorphus	0.46	55	0.04	
Mursia cristimanus	0.21	22	0.02	
Nudibranchs	0.20	12	0.02	
Paracallionymus costatus	0.10	22	0.01	
Sepia typica	0.04	22	0.00	
Total	1195.22		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 95  
 DATE :26/01/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 35°55.84  
 start stop duration Purpose : 3  
 TIME :13:32:19 14:02:44 30.4 (min) Region : 6000  
 LOG : 7354.73 7356.18 1.5 Gear cond.: 0  
 FDEPTH: 171 181 Validity : 0  
 BDEPTH: 171 181 Speed : 2.9 km  
 Towing dir: 0° Wire out : 420 m Catch/hour: 1212.22  
 Sorted : 614 Total catch: 614.19

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 98  
 DATE :27/01/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 36°33.84  
 start stop duration Purpose : 3  
 TIME :05:37:16 06:07:18 30.0 (min) Region : 6000  
 LOG : 7447.48 7449.21 1.7 Gear cond.: 0  
 FDEPTH: 454 451 Validity : 0  
 BDEPTH: 454 451 Speed : 3.5 km  
 Towing dir: 0° Wire out : 1040 m Catch/hour: 573.97  
 Sorted : 110 Total catch: 287.37

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius capensis	327.63	298	27.03	915
Merluccius capensis	313.82	302	25.89	914
Squalus megalops	179.61	0	14.82	
Pterogymnus lanarius	90.79	158	7.49	916
Trachurus capensis	84.87	466	7.00	920
Helicolenus dactylopterus	51.32	306	4.23	917
Lophius vomerinus	23.68	12	1.95	919
Merluccius capensis	20.72	16	1.71	908
URCHINS	19.74	0	1.63	
Loligo reynaudi	15.99	99	1.32	925
Loligo reynaudi	15.59	128	1.29	926
Zeus capensis	11.05	12	0.91	918
Squalus mitsukurii	11.05	8	0.91	
Scyliorhinus capensis	10.86	57	0.90	
Raja wallacei	7.30	6	0.60	
Congiopodus torvus	6.91	4	0.57	
Cynoglossus zanzibarensis	3.95	20	0.33	921
G A S T R O P O D S	3.95	438	0.33	
JELLYFISH	2.57	2	0.21	
Black sand dollar	1.70	45	0.14	
Gonorhynchus gonorhynchus	1.56	6	0.13	
Chelidonichthys queketti	1.38	8	0.11	922
Palinurus gilchristi	1.36	6	0.11	924
Palinurus gilchristi	1.13	4	0.09	923
Sepia australis	1.03	93	0.08	
Starfish	1.01	59	0.08	
Mursia cristimanus	1.01	112	0.08	
Holohalaelurus regani	0.53	2	0.04	
Invertebrate	0.03	6	0.00	
Sepia hieronis	0.03	2	0.00	
ISOPODS	0.02	8	0.00	
Paracallionymus costatus	0.02	8	0.00	
Champsodon capensis	0.01	2	0.00	
Sepia hieronis, juvenile	0.01	2	0.00	
Raja leopardus, juvenile	0.01	2	0.00	
Sepia typica	0.00	2	0.00	
Rochinia sp.	0.00	2	0.00	
Nudibranchs	0.00	2	0.00	
Total	1212.22		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	271.64	783	47.33	950
Todaropsis eblanae	83.89	471	14.62	952
Caelorinchus simorhynchus	82.29	823	14.34	
Squalus mitsukurii	41.94	18	7.31	
Todaropsis eblanae	17.66	136	3.08	951
Cyttus traversi	14.78	14	2.58	949
Genypterus capensis	14.58	6	2.54	947
Helicolenus dactylopterus	13.26	104	2.31	1209
Scyliorhinus capensis	12.38	12	2.16	
Lophius vomerinus	11.19	6	1.95	948
Raja wallacei	5.39	2	0.94	
Raja leopardus	3.00	2	0.52	
Parapagurus dimorphus	1.21	144	0.21	
Rossia enigmatica	0.30	8	0.05	
Lucigadus ori	0.19	8	0.03	
Paracallionymus costatus	0.15	24	0.03	
Plesionika martia	0.05	8	0.01	
Argyropelecus aculeatus	0.04	16	0.01	
Diretmus argenteus	0.03	8	0.01	
Total	573.97		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 99  
 DATE :27/01/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 36°48.03  
 start stop duration Purpose : 3  
 TIME :15:04:13 15:34:10 30.0 (min) Region : 6000  
 LOG : 7510.93 7512.34 1.4 Gear cond.: 0  
 FDEPTH: 583 579 Validity : 0  
 BDEPTH: 583 579 Speed : 2.8 km  
 Towing dir: 0° Wire out : 1350 m Catch/hour: 804.95  
 Sorted : 402 Total catch: 401.94

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	488.65	693	60.71	953
Merluccius paradoxus	226.30	318	28.11	955
Merluccius paradoxus	17.02	28	2.11	954
Lepidion capensis	14.02	30	1.74	
Helicolenus dactylopterus	10.01	84	1.24	956
Scyliorhinus capensis	9.61	12	1.19	
Kuronezumia leonis	8.61	20	1.07	
Caelorinchus simorhynchus	8.01	66	1.00	
Raja wallacei	7.61	2	0.95	
Etmopterus brachyurus	5.21	14	0.65	
Caelorinchus braueri	3.50	130	0.44	
Bassanago albenscens	2.60	8	0.32	
Lepidopus caudatus	1.90	2	0.24	
Tripterophycis gilchristi	0.61	22	0.08	
Todaropsis eblanae	0.56	2	0.07	957
Gonostoma elongatum	0.15	22	0.02	
Lucigadus ori	0.15	10	0.02	
XXXXXXX	0.10	2	0.01	
Rochinia sp.	0.08	12	0.01	
Photichthys argenteus	0.05	4	0.01	
Ornithoteuthis antillarum	0.04	2	0.00	
Cranchia scabra	0.04	2	0.00	
Symbolophorus boops	0.03	2	0.00	
Xenodermichthys copei	0.03	2	0.00	
Diplophos taenia	0.01	2	0.00	
Spirula spirula	0.01	2	0.00	
MYCTOPHIDAE	0.01	2	0.00	
Sergia sp.	0.01	2	0.00	
Argyropelecus aculeatus	0.00	2	0.00	
CENTROLOPHIDAE, juvenile	0.00	2	0.00	
Total	804.95		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 96  
 DATE :26/01/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 36°7.12  
 start stop duration Purpose : 3  
 TIME :16:30:07 17:00:26 30.3 (min) Region : 6000  
 LOG : 7371.21 7372.63 1.4 Gear cond.: 0  
 FDEPTH: 183 189 Validity : 0  
 BDEPTH: 183 189 Speed : 2.8 km  
 Towing dir: 0° Wire out : 465 m Catch/hour: 2131.15  
 Sorted : 211 Total catch: 1076.94

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Trachurus capensis	1185.36	5670	55.62	932
Squalus megalops	252.51	530	11.85	
Helicolenus dactylopterus	133.73	1136	6.28	934
Merluccius capensis	118.73	117	5.57	928
Zeus capensis	75.20	75	3.53	933
Lophius vomerinus	73.22	30	3.44	931
Loligo reynaudi	69.64	202	3.27	936
Scyliorhinus capensis	35.42	26	1.66	
Mustelus palumbes	29.68	2	1.39	
Gonorhynchus gonorhynchus	26.75	51	1.26	
Squalus mitsukurii	16.42	4	0.77	
Chelidonichthys queketti	15.64	101	0.73	935
Raja wallacei	14.84	14	0.70	
G A S T R O P O D S	11.48	0	0.54	
Loligo reynaudi	10.60	101	0.50	937
URCHINS	9.87	277	0.46	
Raja pullopunctata	7.92	4	0.37	
Cynoglossus zanzibarensis	7.87	51	0.37	938
Merluccius capensis	6.53	4	0.31	927
Sepia australis	5.93	378	0.28	
Congiopodus spinifer	4.47	26	0.21	
Cirripectida	4.29	1061	0.20	
Mursia cristimanus	3.10	202	0.15	
Starfish red	2.81	51	0.13	
Palinurus gilchristi	2.14	4	0.10	929
Arnoglossus capensis	1.79	26	0.08	
Starfish	1.59	101	0.07	
Palinurus gilchristi	1.45	4	0.07	930
Rochinia sp.	1.24	152	0.06	
Nudibranchs	0.51	26	0.02	
PORTUNIDAE	0.40	2	0.02	
Total	2131.15		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 100  
 DATE :27/01/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 36°45.45  
 start stop duration Purpose : 3  
 TIME :17:03:50 17:32:04 28.2 (min) Region : 6000  
 LOG : 7520.12 7521.36 1.2 Gear cond.: 8  
 FDEPTH: 444 454 Validity : 1  
 BDEPTH: 444 454 Speed : 2.6 km  
 Towing dir: 0° Wire out : 1040 m Catch/hour: 1091.22  
 Sorted : 194 Total catch: 513.42

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Helicolenus dactylopterus	484.59	5007	44.41	963
Merluccius paradoxus	165.78	485	15.19	964
Merluccius paradoxus	93.52	217	8.57	962
Merluccius paradoxus	78.64	174	7.21	961
Todaropsis eblanae	67.59	421	6.19	966
Caelorinchus simorhynchus	42.72	561	3.91	
Lophius vomerinus	33.37	11	3.06	958
Squalus mitsukurii, female	29.76	6	2.73	
Genypterus capensis	21.89	11	2.01	959
Starfish	17.60	0	1.61	
Scyliorhinus capensis	15.81	26	1.45	
Merluccius paradoxus	15.73	40	1.44	960
Todaropsis eblanae	12.75	94	1.17	965
Lucigadus ori	2.93	204	0.27	
Beryx splendens	2.42	13	0.22	
Lepidopus caudatus	2.13	2	0.19	
Tripterophycis gilchristi	1.95	77	0.18	
URCHINS	0.83	26	0.08	
G A S T R O P O D S	0.48	26	0.04	
Rossia enigmatica	0.34	13	0.03	
Bathophilus nigerrimus	0.28	13	0.03	
Parapagurus pilosimanus	0.10	13	0.01	
Total	1091.22		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 101  
 DATE :28/01/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 35°32.83  
 start stop duration Purpose : 3  
 TIME :08:17:47 08:48:18 30.5 (min) Lon E 18°58.27  
 LOG : 7650.54 7652.10 1.6 Region : 6000  
 FDEPTH: 550 544 Gear cond.: 0  
 BDEPTH: 550 544 Validity : 0  
 Towing dir: 0° Wire out : 1170 m Speed : 3.1 km  
 Sorted : 274 Total catch: 274.08 Catch/hour: 539.00

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 103  
 DATE :28/01/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 35°23.67  
 start stop duration Purpose : 3  
 TIME :13:15:48 13:46:33 30.8 (min) Lon E 19°8.57  
 LOG : 7675.27 7676.77 1.5 Region : 6000  
 FDEPTH: 226 220 Gear cond.: 0  
 BDEPTH: 226 220 Validity : 0  
 Towing dir: 0° Wire out : 550 m Speed : 3.0 km  
 Sorted : 172 Total catch: 811.43 Catch/hour: 1582.77

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	247.79	250	45.97	968
Merluccius paradoxus	182.89	285	33.93	967
Helicolenus dactylopterus	25.57	372	4.74	969
Anemones, white	19.67	92	3.65	
Caelorinchus simorhynchus	16.72	151	3.10	
Bassanago albescens	7.47	20	1.39	
Caelorinchus braueri	7.20	212	1.34	
Chaeceon macphersoni	5.17	85	0.96	
Photichthys argenteus	4.96	83	0.92	
Malacocephalus laevis	3.89	12	0.72	
Scyliorhinus capensis	2.75	2	0.51	
Hydrolagus sp.	2.56	2	0.47	
Ancistrocheirus lesueurii	2.43	0	0.45	
Psychrolutes macrocephalus	1.87	8	0.35	
Starfish (large)	1.14	4	0.21	
Lucigadus ori	1.14	94	0.21	
Lycoteuthis lorigera, female	0.68	55	0.13	
Starfish	0.63	63	0.12	
Holohalaelurus regani	0.63	4	0.12	
Lycoteuthis lorigera, male	0.56	2	0.10	
Lampanyctodes hectoris	0.42	142	0.08	
Symbolophorus boops	0.41	29	0.08	
Etmopterus brachyurus	0.36	2	0.07	
Rossia enigmatica	0.30	10	0.06	
Stereomastis sp.	0.28	31	0.05	
Tripteroptychus gilchristi	0.28	10	0.05	
Hoplostethus mediterraneus	0.27	4	0.05	
Funchalia woodwardi	0.20	18	0.04	
Stoloteuthis sp.	0.12	28	0.02	
Diaphus sp.	0.12	26	0.02	
Physiculus capensis	0.11	4	0.02	
Chlorophthalmus punctatus	0.10	2	0.02	
Gymnoscopelus sp.	0.10	12	0.02	
Raja leopardus, juvenile	0.07	2	0.01	
Diplophos taenia	0.04	2	0.01	
Munidopsis sp.	0.03	6	0.01	
Chauliodus sloani	0.02	2	0.00	
URCHINS	0.02	2	0.00	
Rochinia sp.	0.01	4	0.00	
Scopelogadus multipunctatus	0.01	2	0.00	
Argyropelecus aculeatus	0.00	2	0.00	
Total	539.00		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Parapagurus dimorphus	776.33	33753	49.05	
Merluccius paradoxus	450.59	1717	28.47	989
Chelidonichthys capensis	77.83	172	4.92	986
Merluccius capensis	60.47	31	3.82	983
Squalus megalops	54.03	172	3.41	
Starfish	27.31	1951	1.73	
Loligo reynaudi	22.63	101	1.43	984
Todaropsis eblanae	21.87	362	1.38	988
Paracallionymus costatus	18.04	1227	1.14	
Mustelus palumbes	14.98	10	0.95	
Todaropsis eblanae	12.38	211	0.78	987
Holohalaelurus regani	10.28	80	0.65	
Lophius vomerinus	8.00	14	0.51	979
Callorhynchus capensis	7.61	2	0.48	
Loligo reynaudi	5.46	31	0.35	985
Helicolenus dactylopterus	5.11	14	0.32	990
Myxine capensis	2.18	14	0.14	
Merluccius paradoxus	1.56	2	0.10	980
Sepia australis	1.43	92	0.09	
Merluccius capensis	1.37	2	0.09	982
Cynoglossus zanzibarensis	1.26	14	0.08	991
Molluscs	0.51	27	0.03	
Palinurus gilchristi	0.47	2	0.03	981
Merluccius capensis	0.31	39	0.02	992
URCHINS	0.29	14	0.02	
Scyliorhinus capensis	0.27	14	0.02	
Rochinia sp.	0.22	39	0.01	
Total	1582.77		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 104  
 DATE :28/01/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 35°19.36  
 start stop duration Purpose : 3  
 TIME :15:28:15 15:58:33 30.3 (min) Lon E 19°17.51  
 LOG : 7683.45 7685.01 1.6 Region : 6000  
 FDEPTH: 185 185 Gear cond.: 0  
 BDEPTH: 185 185 Validity : 0  
 Towing dir: 0° Wire out : 450 m Speed : 3.1 km  
 Sorted : 207 Total catch: 589.18 Catch/hour: 1166.70

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Parapagurus dimorphus	340.59	30962	29.19	
Loligo reynaudi	221.78	1378	19.01	
Chelidonichthys capensis	103.76	182	8.89	1002
Squalus megalops	95.05	261	8.15	
Loligo reynaudi	66.53	333	5.70	996
Merluccius capensis	57.43	38	4.92	994
Lophius vomerinus	43.56	57	3.73	995
Raja straeleni	30.26	55	2.59	
Merluccius capensis	26.73	18	2.29	993
Loligo reynaudi	26.14	174	2.24	997
Merluccius capensis	23.45	63	2.01	1001
Chelidonichthys queketti	19.80	87	1.70	1003
Starfish	16.63	665	1.43	
URCHINS	14.65	376	1.26	
Zeus capensis	12.67	127	1.09	998
Paracallionymus costatus	10.22	4087	0.88	
Holohalaelurus regani	7.92	16	0.68	
Todaropsis eblanae	7.05	95	0.60	1006
Helicolenus dactylopterus	6.81	63	0.58	999
Todaropsis eblanae	6.65	119	0.57	1005
Mustelus palumbes	4.99	8	0.43	
Trachurus capensis	4.83	40	0.41	1000
Congiopodus spinifer	4.59	8	0.39	
Thyrsites atun	4.51	8	0.39	1009
Sepia australis	4.12	687	0.35	
Cynoglossus zanzibarensis	3.56	55	0.31	1004
Anemones, red	1.12	8	0.10	
Merluccius capensis	0.44	48	0.04	1008
Merluccius paradoxus	0.29	103	0.03	1007
G A S T R O P O D S	0.19	16	0.02	
Exodromidia sp.	0.16	8	0.01	
Sepia hieronim	0.12	16	0.01	
Champsodon capensis	0.07	8	0.01	
Total	1166.70		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 102  
 DATE :28/01/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 35°30.79  
 start stop duration Purpose : 3  
 TIME :10:14:56 10:36:09 21.2 (min) Lon E 18°58.08  
 LOG : 7656.10 7657.08 1.0 Region : 6000  
 FDEPTH: 452 454 Gear cond.: 0  
 BDEPTH: 452 454 Validity : 0  
 Towing dir: 0° Wire out : 1050 m Speed : 2.8 km  
 Sorted : 405 Total catch: 1357.64 Catch/hour: 3840.57

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	1222.07	5004	31.82	972
Merluccius paradoxus	1069.31	1545	27.84	974
Lepidopus caudatus	514.85	515	13.41	
Merluccius paradoxus	475.25	798	12.37	973
Anemones, pink	122.21	498	3.18	
Caelorinchus simorhynchus	117.11	1259	3.05	
Helicolenus dactylopterus	69.59	713	1.81	975
Scyliorhinus capensis	42.43	51	1.10	
Beryx splendens	41.24	136	1.07	976
Genypterus capensis	35.36	42	0.92	971
Torpedo nobilliana	25.46	3	0.66	
Lophius vomerinus	24.05	11	0.63	970
Malacocephalus laevis	18.16	51	0.47	
Todaropsis eblanae	14.43	68	0.38	978
Starfish	12.56	1143	0.33	
Squalus mitsukurii	6.51	3	0.17	
Lucigadus ori	6.11	136	0.16	
Chaeceon macphersoni	3.92	34	0.10	
Tripteroptychus gilchristi	3.14	170	0.08	
Parapagurus pilosimanus	3.14	238	0.08	
Todaropsis eblanae	3.06	17	0.08	977
Rochinia sp.	2.17	458	0.06	
G A S T R O P O D S	2.09	119	0.05	
Photichthys argenteus	2.04	34	0.05	
Lycoteuthis lorigera	0.87	85	0.02	
Funchalia woodwardi	0.81	85	0.02	
Lampanyctodes hectoris	0.71	238	0.02	
Abraliopsis gilchristi	0.58	136	0.02	
Stereomastis sp.	0.54	68	0.01	
Rossia enigmatica	0.36	17	0.01	
Paracallionymus costatus	0.29	34	0.01	
Parapagurus dimorphus	0.17	17	0.00	
Total	3840.57		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 105  
 DATE :29/01/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 35°11.91  
 start stop duration Purpose : 3  
 TIME :17:31:32 17:56:33 25.0 (min) Region : 6000  
 LOG : 7696.38 7697.59 1.2 Gear cond.: 0  
 FDEPTH: 168 168 Validity : 0  
 BDEPTH: 168 168 Speed : 2.9 km  
 Towing dir: 0° Wire out : 420 m Catch/hour: 920.72  
 Sorted : 234 Total catch: 383.94

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 108  
 DATE :29/01/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 35°14.82  
 start stop duration Purpose : 3  
 TIME :07:30:08 07:50:13 20.1 (min) Region : 6000  
 LOG : 7777.06 7778.10 1.0 Gear cond.: 0  
 FDEPTH: 371 371 Validity : 0  
 BDEPTH: 371 371 Speed : 3.1 km  
 Towing dir: 0° Wire out : 900 m Catch/hour: 3876.77  
 Sorted : 300 Total catch: 1296.78

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Chelidonichthys capensis	151.08	319	16.41	1017
Merluccius capensis	127.10	108	13.80	1011
Loligo reynaudi	120.02	839	13.04	1021
Merluccius capensis	74.82	194	8.13	1016
Merluccius capensis	74.34	55	8.07	1012
Lophius vomerinus	64.75	50	7.03	1010
Squalus megalops	37.77	101	4.10	
Octopus magnificus	28.78	2	3.13	
Loligo reynaudi	27.10	170	2.94	1013
Callorhynchus capensis	26.38	7	2.87	
Zeus capensis	19.90	228	2.16	1019
Raja pullopectata	19.18	2	2.08	
B I V A L V E S	18.13	2590	1.97	0
Starfish	13.43	345	1.46	
Paracallionymus costatus	13.19	1885	1.43	
Etrumeus whiteheadi	13.09	266	1.42	
Raja straeleni	12.59	17	1.37	
Loligo reynaudi	10.31	86	1.12	1014
Holohalaelurus regani	9.23	34	1.00	
Sepia australis	8.06	1007	0.88	
Parapagurus dimorphus	7.19	504	0.78	
Bristle worms	7.19	0	0.78	
Todaropsis eblanae	7.05	134	0.77	1026
URCHINS	5.04	0	0.55	
Cynoglossus zanzibarensis	4.03	101	0.44	1018
Chelidonichthys queketti	4.03	17	0.44	1022
Helicolenus dactylopterus	3.78	134	0.41	1023
Todaropsis eblanae	2.95	60	0.32	1025
Merluccius capensis	2.78	412	0.30	1024
Trachurus capensis	1.83	17	0.20	1027
Thyrssites atun	1.49	2	0.16	1015
Sepia hieronis	0.89	43	0.10	
Squalus megalops, juvenile	0.70	10	0.08	
Genypterus capensis	0.64	2	0.07	1020
Nudibranchs	0.51	26	0.06	
G A S T R O P O D S	0.46	10	0.05	
Anemones, red	0.40	10	0.04	
Anemones, yellow	0.25	110	0.03	
Mursia cristimanus	0.17	26	0.02	
Pterygosquilla armata capensis	0.10	17	0.01	
Total	920.72		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	3180.87	14951	82.05	1041
Merluccius paradoxus	224.22	167	5.78	1043
Caelorhynchus simorhynchus	124.96	1865	3.22	
Todaropsis eblanae	107.92	1136	2.78	1048
Todaropsis eblanae	104.33	1061	2.69	1047
Merluccius paradoxus	38.86	48	1.00	1042
Genypterus capensis	29.90	36	0.77	1044
Merluccius capensis	25.41	15	0.66	1051
Helicolenus dactylopterus	15.34	284	0.40	1049
Merluccius capensis	14.95	9	0.39	1050
Lophius vomerinus	4.78	3	0.12	1045
Malacocephalus laevis	2.54	39	0.07	
Zeus capensis	1.49	3	0.04	1046
Holohalaelurus regani	1.19	57	0.03	
Maurolicus muelleri	0.00	0	0.00	
Total	3876.77		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 109  
 DATE :29/01/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 35°10.76  
 start stop duration Purpose : 3  
 TIME :09:50:57 10:21:00 30.1 (min) Region : 6000  
 LOG : 7790.49 7792.07 1.6 Gear cond.: 0  
 FDEPTH: 223 224 Validity : 0  
 BDEPTH: 223 224 Speed : 3.1 km  
 Towing dir: 0° Wire out : 500 m Catch/hour: 415.24  
 Sorted : 208 Total catch: 207.97

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius capensis	117.80	114	28.37	1054
Merluccius paradoxus	75.87	307	18.27	1056
Loligo reynaudi	69.88	272	16.83	1061
Merluccius capensis	32.95	48	7.93	1053
Todaropsis eblanae	21.96	341	5.29	1064
Todaropsis eblanae	18.77	315	4.52	1063
Mustelus palumbes	17.97	12	4.33	
Helicolenus dactylopterus	13.58	132	3.27	1058
Callorhynchus capensis	12.58	6	3.03	
Chelidonichthys capensis	9.18	14	2.21	1055
Loligo reynaudi	7.39	44	1.78	1062
Lophius vomerinus	6.39	8	1.54	1052
Lepidopus caudatus	4.19	18	1.01	
Squalus megalops	2.00	8	0.48	
Holohalaelurus regani	1.38	8	0.33	
Trachurus capensis	0.90	8	0.22	1060
Congiopodus torvus	0.70	2	0.17	
Scyllorhynchus capensis	0.60	2	0.14	
Zeus capensis	0.56	4	0.13	1059
Genypterus capensis	0.40	2	0.10	1057
Caelorhynchus simorhynchus	0.13	2	0.03	
Paracallionymus costatus	0.07	12	0.02	
Total	415.24		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 110  
 DATE :29/01/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 35°0.75  
 start stop duration Purpose : 3  
 TIME :12:43:22 13:13:23 30.0 (min) Region : 6000  
 LOG : 7808.31 7809.62 1.3 Gear cond.: 0  
 FDEPTH: 175 174 Validity : 0  
 BDEPTH: 175 174 Speed : 2.6 km  
 Towing dir: 0° Wire out : 420 m Catch/hour: 710.32  
 Sorted : 355 Total catch: 355.28

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Hexanchus griseus	199.93	2	28.15	
Lophius vomerinus	83.97	104	11.82	1065
Etrumeus whiteheadi	77.97	1418	10.98	
Merluccius capensis	71.98	108	10.13	1066
Merluccius capensis	67.98	94	9.57	1067
Chelidonichthys capensis	35.99	82	5.07	1070
Loligo reynaudi	27.99	108	3.94	1076
Helicolenus dactylopterus	19.99	302	2.81	1071
Black sand dollar	17.99	346	2.53	
Callorhynchus capensis	14.00	8	1.97	
Merluccius capensis	8.40	72	1.18	1068
Zeus capensis	8.00	100	1.13	1073
Starfish	8.00	182	1.13	
Raja straeleni	7.60	8	1.07	
Paracallionymus costatus	6.92	1537	0.97	
Todaropsis eblanae	5.60	104	0.79	1081
Merluccius paradoxus	4.80	20	0.68	1069
Merluccius capensis	4.74	420	0.67	1079
Holohalaelurus regani	4.40	16	0.62	
Todaropsis eblanae	4.40	78	0.62	1080
Lepidopus caudatus	4.00	4	0.56	
Loligo reynaudi	3.54	18	0.50	1077
Sepia australis	3.54	294	0.50	
Cynoglossus zanzibarensis	2.94	70	0.41	1074
Parapagurus dimorphus	2.84	258	0.40	
Raja wallacei	2.60	2	0.37	
Genypterus capensis	2.40	4	0.34	1072
Squalus megalops	1.98	4	0.28	
Chelidonichthys queketti	1.80	8	0.25	1075
Torpedo nobiliana	1.18	2	0.17	
Trachurus capensis	0.74	8	0.10	1078
JELLYFISH	0.62	2	0.09	
Congiopodus spinifer	0.60	4	0.08	
Anemones, white	0.37	2	0.05	
Caelorhynchus simorhynchus	0.20	2	0.03	
G A S T R O P O D S	0.20	12	0.03	
Mursia cristimanus	0.07	8	0.01	
Champsodon capensis	0.05	6	0.01	
Engraulis capensis	0.02	2	0.00	
Total	710.32		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 111  
 DATE :29/01/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 34°54.24  
 start stop duration Purpose : 3  
 TIME :15:20:43 15:26:22 5.7 (min) Region : 6000  
 LOG : 7822.16 7822.40 0.2 Gear cond.: 9  
 FDEPTH: 153 153 Validity : 9  
 BDEPTH: 153 153 Speed : 2.5 km  
 Towing dir: 0° Wire out : 350 m Catch/hour: 0.00  
 Sorted : 0 Total catch: 0.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
N O C A T C H	0.00	0	0.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 112  
 DATE :29/01/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 34°54.22  
 start stop duration Purpose : 3  
 TIME :16:00:28 16:25:39 25.2 (min) Lon E 19°12.85  
 LOG : 7825.27 7826.47 1.2 Region : 6000  
 FDEPTH: 156 155 Gear cond.: 0  
 BDEPTH: 156 155 Validity : 0  
 Towing dir: 0° Wire out : 350 m Speed : 2.9 km  
 Sorted : 210 Total catch: 283.63 Catch/hour: 675.85

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 115  
 DATE :30/01/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 34°52.49  
 start stop duration Purpose : 3  
 TIME :09:41:37 10:05:43 24.1 (min) Lon E 18°34.64  
 LOG : 7944.31 7945.33 1.0 Region : 6000  
 FDEPTH: 223 224 Gear cond.: 0  
 BDEPTH: 223 224 Validity : 0  
 Towing dir: 0° Wire out : 500 m Speed : 2.5 km  
 Sorted : 263 Total catch: 262.67 Catch/hour: 654.23

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius capensis	121.29	11392	17.95	1088
Chelidonichthys capensis	114.38	319	16.92	1082
Merluccius capensis	90.55	119	13.40	1085
Merluccius capensis	85.78	746	12.69	1089
Lophius vomerinus	71.49	64	10.58	1083
Merluccius capensis	33.36	60	4.94	1084
Todaropsis eblanae	24.45	450	3.62	1097
Callorhynchus capensis	23.83	12	3.53	
Raja straeleni	21.45	17	3.17	
Paracallionymus costatus	17.56	4747	2.60	
Zeus capensis	16.56	284	2.45	1091
Sepia australis	11.65	1158	1.72	
Cynoglossus zanzibarensis	7.12	112	1.05	1094
Todaropsis eblanae	6.43	162	0.95	1096
Trachurus capensis	6.12	76	0.91	1095
Etrumeus whiteheadi	6.00	150	0.89	
Loligo reynaudi	4.93	43	0.73	1092
Starfish	4.77	217	0.71	
JELLYFISH	4.77	2	0.71	
Pterygosquilla armata capensis	0.79	81	0.12	
Helicolenus dactylopterus	0.58	12	0.09	1090
Loligo reynaudi	0.57	5	0.08	1093
Gerypterus capensis	0.49	7	0.07	1086
Pallinurus gilchristi	0.45	2	0.07	1087
Champsodon capensis	0.18	21	0.03	
Engraulis capensis	0.12	12	0.02	
Callanthias legras	0.10	5	0.01	
Mursia cristimanus	0.08	12	0.01	
Exodromidia sp.	0.00	5	0.00	
Parapagurus dimorphus	0.00	5	0.00	
Total	675.85		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Todaropsis eblanae	194.77	3803	29.77	1124
Todaropsis eblanae	158.16	2979	24.17	1123
Loligo reynaudi	95.39	376	14.58	1121
Chelidonichthys capensis	53.55	100	8.19	1119
Merluccius capensis	52.30	37	7.99	1128
Jasus lalandii	23.41	67	3.58	1113
Zeus capensis	16.19	67	2.47	1118
Merluccius capensis	15.19	25	2.32	1127
Loligo reynaudi	13.95	75	2.13	1122
Merluccius paradoxus	9.71	40	1.48	1129
Raja straeleni	6.48	2	0.99	
Lophius vomerinus	3.74	5	0.57	1115
Chelidonichthys queketti	2.74	10	0.42	1120
Squalus megalops	1.99	5	0.30	
Trachurus capensis	1.74	10	0.27	1126
Helicolenus dactylopterus	1.74	10	0.27	1116
Thyrsites atun	1.49	2	0.23	1125
Palinurus gilchristi	1.12	2	0.17	1114
Holohalaelurus regani	0.55	2	0.08	
Sepia australis	0.00	2	0.00	
Total	654.23		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 113  
 DATE :30/01/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 35°0.75  
 start stop duration Purpose : 3  
 TIME :04:20:29 04:50:42 30.2 (min) Lon E 18°28.79  
 LOG : 7913.84 7915.35 1.5 Region : 6000  
 FDEPTH: 561 562 Gear cond.: 0  
 BDEPTH: 561 562 Validity : 0  
 Towing dir: 0° Wire out : 1250 m Speed : 3.0 km  
 Sorted : 133 Total catch: 132.69 Catch/hour: 263.45

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 116  
 DATE :30/01/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 34°45.68  
 start stop duration Purpose : 3  
 TIME :11:58:58 12:29:11 30.2 (min) Lon E 18°45.30  
 LOG : 7958.91 7960.40 1.5 Region : 6000  
 FDEPTH: 176 176 Gear cond.: 0  
 BDEPTH: 176 176 Validity : 0  
 Towing dir: 0° Wire out : 420 m Speed : 3.0 km  
 Sorted : 293 Total catch: 293.29 Catch/hour: 582.32

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	180.68	147	68.58	1099
Merluccius paradoxus	32.76	34	12.43	1098
Caelorinchus braueri	17.87	407	6.78	
Helicolenus dactylopterus	17.27	220	6.56	1101
Caelorinchus simorhynchus	5.68	71	2.16	
Merluccius paradoxus	3.57	30	1.36	1100
Bassanago albescens	1.49	4	0.57	
Funchalia woodwardi	1.20	85	0.45	
Photichthys argenteus	0.95	26	0.36	
Plesionika martia	0.65	111	0.25	
Notacanthus sexspinis	0.36	6	0.14	
Lepidopus caudatus	0.22	4	0.08	
Stoloteuthis sp.	0.15	32	0.06	
Raja leopardus, juvenile	0.13	2	0.05	
Diaphus sp.	0.06	18	0.02	
Symbolophorus boops	0.06	4	0.02	
Lycoteuthis lorigera	0.06	6	0.02	
Lucigadus ori	0.05	4	0.02	
Aristaeomorpha foliacea	0.04	2	0.02	
MYCTOPHIDAE	0.04	10	0.02	
Sergia sp.	0.03	6	0.01	
PARALEPIDIDAE	0.03	2	0.01	
Gymnoscopelus sp.	0.03	12	0.01	
Nezumia sp.	0.02	6	0.01	
Paraliparis australis	0.01	8	0.01	
Argyropelecus aculeatus	0.01	4	0.00	
Champsodon capensis	0.01	2	0.00	
Diretmus argenteus	0.01	2	0.00	
Hoplostethus mediterraneus, juvenile	0.01	8	0.00	
Argyropelecus hemigymnus	0.00	6	0.00	
Total	263.45		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Jasus lalandii	111.18	834	19.09	1130
Merluccius capensis	71.48	197	12.27	1133
Merluccius capensis	65.52	18	11.25	1135
Chelidonichthys capensis	63.53	151	10.91	1136
Lophius vomerinus	53.61	60	9.21	1131
Raja alba	49.64	2	8.52	
Raja straeleni	45.67	36	7.84	
Todaropsis eblanae	27.80	677	4.77	1140
Todaropsis eblanae	23.83	552	4.09	1139
Merluccius capensis	21.84	10	3.75	1134
Zeus capensis	14.89	99	2.56	1138
Loligo reynaudi	12.51	64	2.15	1141
Helicolenus dactylopterus	4.37	36	0.75	1143
Loligo reynaudi	2.98	18	0.51	1142
Callorhynchus capensis	2.98	2	0.51	
Merluccius paradoxus	2.38	8	0.41	1132
Chelidonichthys queketti	1.39	6	0.24	1137
Squalus megalops	1.25	2	0.21	
Merluccius capensis	1.19	119	0.20	1144
JELLYFISH	1.19	4	0.20	
Lepidopus caudatus	0.99	2	0.17	
Sepia australis	0.65	56	0.11	
Holohalaelurus regani	0.64	4	0.11	
Merluccius paradoxus	0.40	103	0.07	1145
Plagiogeneion rubiginosus	0.30	2	0.05	
Paracallionymus costatus	0.11	22	0.02	
Champsodon capensis	0.02	2	0.00	
Total	582.32		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 114  
 DATE :30/01/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 34°49.38  
 start stop duration Purpose : 3  
 TIME :07:33:30 07:53:40 20.2 (min) Lon E 18°25.02  
 LOG : 7933.78 7934.69 0.9 Region : 6000  
 FDEPTH: 352 357 Gear cond.: 0  
 BDEPTH: 352 357 Validity : 0  
 Towing dir: 0° Wire out : 750 m Speed : 2.7 km  
 Sorted : 150 Total catch: 399.92 Catch/hour: 1190.81

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 117  
 DATE :30/01/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 34°37.77  
 start stop duration Purpose : 3  
 TIME :14:34:02 15:04:09 30.1 (min) Lon E 18°56.02  
 LOG : 7975.06 7976.56 1.5 Region : 6000  
 FDEPTH: 142 140 Gear cond.: 0  
 BDEPTH: 142 140 Validity : 0  
 Towing dir: 0° Wire out : 350 m Speed : 3.0 km  
 Sorted : 288 Total catch: 338.95 Catch/hour: 675.42

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	946.90	5366	79.52	1102
Caelorinchus simorhynchus	89.33	893	7.50	
Lophius vomerinus	22.33	6	1.88	1103
Todaropsis eblanae	20.90	188	1.76	1112
Gerypterus capensis	20.84	21	1.75	1104
Merluccius capensis	17.87	9	1.50	1106
Helicolenus dactylopterus	17.42	250	1.46	1107
Merluccius paradoxus	13.40	15	1.13	1105
Merluccius paradoxus	11.97	572	1.01	1109
Trachurus capensis	10.54	9	0.89	1110
Zeus capensis	6.70	18	0.56	1108
Todaropsis eblanae	6.34	80	0.53	1111
Scyliorhinus capensis	3.57	9	0.30	
Malacocephalus laevis	2.36	9	0.20	
Maurollicus muelleri	0.15	0	0.01	
Paracallionymus costatus	0.14	18	0.01	
Diaphus sp.	0.04	9	0.00	
Total	1190.81		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius capensis	201.26	430	29.80	1148
Etrumeus whiteheadi	109.60	2961	16.23	
Merluccius capensis	81.70	88	12.10	1160
Merluccius capensis	59.78	90	8.85	1159
Callorhynchus capensis	57.79	36	8.56	
Chelidonichthys capensis	45.83	118	6.79	1147
Lophius vomerinus	33.88	18	5.02	1146
Raja straeleni	19.93	28	2.95	
Merluccius capensis	19.43	130	2.88	1150
Todaropsis eblanae	14.55	418	2.15	1158
Todaropsis eblanae	7.47	189	1.11	1157
Zeus capensis	6.38	90	0.94	1153
Loligo reynaudi	6.16	36	0.91	1156
Raja wallacei	4.78	2	0.71	
Loligo reynaudi	2.04	10	0.30	1155
Jasus lalandii	1.79	6	0.27	1149
Merluccius capensis	1.33	145	0.20	1151
Thyrsites atun	0.94	6	0.14	1154
Trachurus capensis	0.39	10	0.06	1152
Sepia australis	0.36	26	0.05	
Pterygosquilla armata capensis	0.04	6	0.01	
Total	675.42		100.00	



R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 118  
 DATE :31/01/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 34°48.78  
 Lon E 18°15.21  
 start stop duration Purpose : 3  
 TIME :04:29:07 04:59:11 30.1 (min) Region : 6000  
 LOG : 8054.68 8056.19 1.5 Gear cond.: 0  
 FDEPTH: 564 558 Validity : 0  
 BDEPTH: 564 558 Speed : 3.0 km  
 Towing dir: 0° Wire out : 1180 m Catch/hour: 182.14 SPECIES  
 Sorted : 91 Total catch: 91.25  
 CATCH/HOUR % OF TOT. C SAMP

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Caelorinchus braueri	101.80	2750	55.89	
Merluccius paradoxus	28.54	40	15.67	1162
Merluccius paradoxus	15.37	12	8.44	1163
Merluccius paradoxus	7.98	58	4.38	1164
Helicolenus dactylopterus	7.58	58	4.16	1165
Synaphobranchus kaupii	7.01	108	3.85	
Photichthys argenteus	2.89	54	1.59	
Genypterus capensis	2.50	2	1.37	1161
Psychrolutes macrocephalus	1.77	14	0.97	
Notacanthus sexspinis	1.28	10	0.70	
Nezumia sp.	1.18	132	0.65	
Plesionika martia	1.12	224	0.61	
Funchalia woodwardi	0.78	72	0.43	
Kuronezumia leonis	0.71	8	0.39	
Malacocephalus laevis	0.46	4	0.25	
Etmopterus brachyurus	0.33	8	0.18	
Chaceon sp.	0.20	2	0.11	
Tripterygius gilchristi	0.20	4	0.11	
Raja leopardus, juvenile	0.14	4	0.08	
Starfish (large)	0.05	2	0.03	
Diaphus sp.	0.05	16	0.03	
Cryptosaras couesii	0.05	2	0.03	
Oreosoma atlanticum, juvenile	0.02	4	0.01	
Leptocephalus	0.02	2	0.01	
Stoloteuthis sp.	0.02	4	0.01	
G A S T R O P O D S	0.02	2	0.01	
Starfish - rough	0.02	2	0.01	
Argyropelecus gigas	0.01	2	0.01	
Polyipnus sp.	0.01	14	0.01	
Physiculus capensis, juvenile	0.01	2	0.01	
MYCTOPHIDAE	0.01	2	0.00	
Stereomastix sp., juvenile	0.01	4	0.00	
Lycoteuthis lorigera	0.01	2	0.00	
Hoplostethus mediterraneus, juvenile	0.00	10	0.00	
Maurollicus muelleri	0.00	4	0.00	
Dirtemus argenteus, juvenile	0.00	2	0.00	
Total	182.14		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 119  
 DATE :31/01/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 34°47.36  
 Lon E 18°18.17  
 start stop duration Purpose : 3  
 TIME :06:09:25 06:36:22 26.9 (min) Region : 6000  
 LOG : 8061.72 8063.00 1.3 Gear cond.: 0  
 FDEPTH: 463 467 Validity : 0  
 BDEPTH: 463 467 Speed : 2.9 km  
 Towing dir: 0° Wire out : 1060 m Catch/hour: 1259.84  
 Sorted : 566 Total catch: 565.67

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	717.15	1283	56.92	1166
Merluccius paradoxus	218.26	1118	17.32	1167
Merluccius paradoxus	151.45	287	12.02	1172
Merluccius paradoxus	115.81	125	9.19	1173
Helicolenus dactylopterus	26.73	225	2.12	1170
Caelorinchus simorhynchus	13.36	149	1.06	
Caelorinchus braueri	5.35	163	0.42	
Todarodes angolensis	2.81	2	0.22	1169
Genypterus capensis	2.67	2	0.21	1168
Photichthys argenteus	2.05	36	0.16	
Merluccius paradoxus	1.49	78	0.12	1171
Cruriraja parcomaculata	0.45	4	0.04	
Raja leopardus	0.44	9	0.03	
Funchalia woodwardi	0.41	38	0.03	
Tripterygius gilchristi	0.39	13	0.03	
Myxine capensis	0.29	2	0.02	
Rossia enigmatica	0.17	7	0.01	
MYCTOPHIDAE	0.07	20	0.01	
Diaphus effulgens	0.07	2	0.01	
Paracallionymus costatus	0.06	7	0.01	
Etmopterus brachyurus	0.06	2	0.00	
Nezumia sp.	0.06	7	0.00	
Argyropelecus gigas	0.04	2	0.00	
Symbolophorus boops	0.04	4	0.00	
Epigonus sp.	0.03	2	0.00	
Chauliodus sloani	0.03	2	0.00	
Gymnoscopelus sp.	0.03	2	0.00	
Stereomastix sp.	0.02	4	0.00	
Lycoteuthis lorigera	0.02	7	0.00	
Diaphus sp.	0.02	9	0.00	
Abraliopsis gilchristi	0.01	2	0.00	
Stoloteuthis sp.	0.00	2	0.00	
Hoplostethus mediterraneus, juvenile	0.00	2	0.00	
Total	1259.84		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 120  
 DATE :31/01/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 34°40.34  
 Lon E 18°16.39  
 start stop duration Purpose : 3  
 TIME :07:49:16 08:19:36 30.3 (min) Region : 6000  
 LOG : 8068.94 8070.37 1.4 Gear cond.: 0  
 FDEPTH: 475 471 Validity : 0  
 BDEPTH: 475 471 Speed : 2.8 km  
 Towing dir: 0° Wire out : 1080 m Catch/hour: 2772.05  
 Sorted : 300 Total catch: 1401.73

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	1245.88	854	44.94	1176
Merluccius paradoxus	1033.29	4325	37.28	1177
Merluccius paradoxus	261.04	508	9.42	1175
Merluccius paradoxus	83.06	28	3.00	1174
Todaropsis eblanae	49.04	433	1.77	1179
Todaropsis eblanae	41.53	396	1.50	1180
Caelorinchus simorhynchus	28.93	386	1.04	
Helicolenus dactylopterus	22.94	283	0.83	1178
Merluccius paradoxus	2.78	263	0.10	1181
Raja leopardus	1.40	20	0.05	
Funchalia woodwardi	0.95	95	0.03	
Photichthys argenteus	0.49	20	0.02	
Caelorinchus braueri	0.49	20	0.02	
Maurollicus muelleri	0.11	57	0.00	
Plesionika martia	0.10	20	0.00	
Total	2772.05		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 121  
 DATE :31/01/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 34°40.21  
 Lon E 18°20.44  
 start stop duration Purpose : 3  
 TIME :09:27:53 09:47:55 20.0 (min) Region : 6000  
 LOG : 8075.68 8076.62 0.9 Gear cond.: 0  
 FDEPTH: 362 355 Validity : 0  
 BDEPTH: 362 355 Speed : 2.8 km  
 Towing dir: 0° Wire out : 850 m Catch/hour: 2416.18  
 Sorted : 176 Total catch: 807.01

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	744.31	4722	30.81	1184
Merluccius paradoxus	691.62	1308	28.62	1185
Helicolenus dactylopterus	444.91	2916	18.41	1186
Caelorinchus simorhynchus	272.46	4323	11.28	
Merluccius paradoxus	122.75	75	5.08	1183
Todaropsis eblanae	56.80	518	2.35	1188
Malacocephalus laevis	44.46	123	1.84	
Todaropsis eblanae	16.35	150	0.68	1187
Genypterus capensis	7.78	9	0.32	1182
Maurollicus muelleri	5.99	0	0.25	
Bassanago albescens	2.99	3	0.12	
Lepidopus caudatus	2.40	3	0.10	
Lampanyctodes hectoris	1.50	0	0.06	
Rossia enigmatica	1.41	24	0.06	
Holohalaelurus regani	0.46	24	0.02	
Total	2416.18		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 122  
 DATE :31/01/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 34°31.83  
 Lon E 18°28.38  
 start stop duration Purpose : 3  
 TIME :11:57:32 12:27:33 30.0 (min) Region : 6000  
 LOG : 8092.19 8093.60 1.4 Gear cond.: 0  
 FDEPTH: 175 176 Validity : 0  
 BDEPTH: 175 176 Speed : 2.8 km  
 Towing dir: 0° Wire out : 420 m Catch/hour: 949.05  
 Sorted : 475 Total catch: 474.84

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Jasus lalandii	221.45	1047	23.33	1198
Lophius vomerinus	135.91	100	14.32	1192
Chelidonichthys capensis	121.92	354	12.85	1190
Merluccius capensis	117.92	308	12.43	1189
Thysites atun	61.96	126	6.53	1191
Jasus lalandii	58.36	378	6.15	1197
Merluccius capensis	53.96	20	5.69	1194
Zeus capensis	31.98	252	3.37	1196
Trachurus capensis	23.98	240	2.53	1195
Loligo reynaudi	19.29	92	2.03	1205
Merluccius capensis	17.99	10	1.90	1193
Etrumeus whiteheadi	17.99	346	1.90	
Callorhynchus capensis	13.99	8	1.47	
Merluccius paradoxus	11.99	62	1.26	1199
Raja straeleni	10.99	6	1.16	
Todaropsis eblanae	6.00	104	0.63	1202
Todaropsis eblanae	5.06	110	0.53	1203
Mustelus palumbes	4.40	2	0.46	
Merluccius capensis	3.80	312	0.40	1200
Loligo reynaudi	3.70	26	0.39	1204
Sepia australis	1.64	136	0.17	
Merluccius capensis	1.12	18	0.12	1206
Cynoglossus zanzibarensis	1.06	14	0.11	1201
Paracallionymus costatus	1.02	178	0.11	
Emmelichthys nitidus	0.62	2	0.07	
Helicolenus dactylopterus	0.28	10	0.03	1207
Lepidopus caudatus	0.27	6	0.03	
Sardinops ocellatus	0.13	2	0.01	
Caelorinchus simorhynchus	0.11	2	0.01	
Champsodon capensis	0.10	8	0.01	
G A S T R O P O D S	0.04	6	0.00	
Rochinia sp.	0.01	2	0.00	
Paracallionymus costatus	0.01	2	0.00	0
Total	949.05		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 123  
 DATE :31/01/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 34°22.82  
 Lon E 18°43.92  
 start stop duration Purpose : 3  
 TIME :15:04:13 15:25:33 21.3 (min) Region : 6000  
 LOG : 8113.84 8114.89 1.1 Gear cond.: 0  
 FDEPTH: 83 85 Validity : 0  
 BDEPTH: 83 85 Speed : 3.0 km  
 Towing dir: 0° Wire out : 220 m Catch/hour: 834.35  
 Sorted : 103 Total catch: 296.75

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Jasus lalandii	490.91	2381	58.84	1210
Jasus lalandii, male	247.99	0	29.72	
Etrumeus whiteheadi	67.48	1875	8.09	
Merluccius capensis	18.28	37	2.19	1208
Chelidonichthys capensis	3.59	8	0.43	1212
Merluccius capensis	2.53	101	0.30	1211
Callorhynchus capensis	1.39	8	0.17	
Lepidopus caudatus	1.05	135	0.13	
Cynoglossus zanzibarensis	0.84	8	0.10	
Trachurus capensis	0.14	8	0.02	1213
Starfish	0.12	8	0.01	
Sepia australis	0.03	8	0.00	
Total	834.35		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 124  
 DATE :04/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 34°37.52  
 start stop duration Purpose : 3  
 TIME :04:19:39 04:50:19 30.7 (min) Lon E 17°57.31  
 LOG : 8234.15 8235.66 1.5 Region : 6000  
 FDEPTH: 577 573 Gear cond.: 0  
 BDEPTH: 577 573 Validity : 0  
 Towing dir: 0° Wire out : 1450 m Speed : 2.9 km  
 Sorted : 381 Total catch: 510.88 Catch/hour: 999.43

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 127  
 DATE :04/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 34°22.72  
 start stop duration Purpose : 3  
 TIME :09:45:20 10:15:42 30.4 (min) Lon E 18°2.53  
 LOG : 8259.54 8261.06 1.5 Region : 6000  
 FDEPTH: 283 285 Gear cond.: 0  
 BDEPTH: 283 285 Validity : 0  
 Towing dir: 0° Wire out : 720 m Speed : 3.0 km  
 Sorted : 126 Total catch: 732.15 Catch/hour: 1446.46

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	277.80	393	27.80	1217
Caelorinchus braueri	224.98	6248	22.51	
Merluccius paradoxus	221.06	207	22.12	1220
Helicolenus dactylopterus	81.77	655	8.18	1218
Anemones, pink	59.47	307	5.95	
Chaceon sp.	52.82	464	5.29	
Merluccius paradoxus	17.61	4	1.76	1216
Psychrolutes macrocephalus	14.54	53	1.45	
Centrolophus squamosus	6.85	2	0.69	
Malacocephalus laevis	6.65	6	0.67	
Squalus mitsukurii	5.48	2	0.55	
P O L Y C H A E T A	4.79	959	0.48	
Merluccius paradoxus	3.23	14	0.32	1215
Plesionika martia	2.78	309	0.28	
Ophichthus bennettai	2.15	18	0.22	
G A S T R O P O D S	2.07	45	0.21	
Todarodes angolensis	2.03	2	0.20	1214
Nezumia sp.	1.94	323	0.19	
Etmopterus brachyurus	1.69	10	0.17	
Caelorinchus simorhynchus	1.53	18	0.15	
Trachyscorpia eschmeyeri	1.10	35	0.11	
Starfish	1.10	110	0.11	
Photichthys argenteus	0.92	22	0.09	
Lucigadus ori	0.81	70	0.08	
Cruriraja parcomaculata	0.78	2	0.08	
Physiculus capensis	0.62	49	0.06	
Setarches guentheri	0.52	4	0.05	
Notacanthus sexspinis	0.43	10	0.04	
Plesiopeneus edwardsianus	0.40	14	0.04	
Rossia enigmatica	0.30	14	0.03	
URCHINS	0.26	4	0.03	
Todaropsis eblanae	0.26	4	0.03	1219
Tripteroptychus gilchristi	0.26	14	0.03	
Hoplostethus mediterraneus	0.18	18	0.02	
Paracallionymus costatus	0.08	10	0.01	
Symbolophorus boops	0.06	4	0.01	
Chlorophthalmus punctatus	0.06	4	0.01	
Gymnoscopelus sp.	0.04	4	0.00	
Chauliodus sloani	0.02	4	0.00	
Argyrolepiscus hemigymmus	0.01	10	0.00	
Paraliparis australis	0.01	4	0.00	
Total	999.43		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Parapagurus dimorphus	412.91	31762	28.55	
Helicolenus dactylopterus	352.06	5694	24.34	1248
Merluccius paradoxus	199.93	217	13.82	1247
Caelorinchus simorhynchus	143.43	3499	9.92	
Loligo reynaudi	83.89	348	5.80	1252
Merluccius paradoxus	45.44	34	3.14	1244
Todaropsis eblanae	35.86	435	2.48	1251
Merluccius capensis	35.36	18	2.44	1242
Todaropsis eblanae	23.04	326	1.59	1250
Lophius vomerinus	21.14	10	1.46	1245
Zeus capensis	20.43	43	1.41	1249
Holohalaelurus regani	17.17	22	1.19	
Merluccius paradoxus	13.04	103	0.90	1243
Loligo reynaudi	10.65	65	0.74	1253
Merluccius capensis	10.27	6	0.71	1241
Trachurus capensis	5.65	22	0.39	1254
G A S T R O P O D S	3.91	109	0.27	
Paracallionymus costatus	3.19	435	0.22	
Starfish	3.00	109	0.21	
Starfish - rough	2.17	283	0.15	
Lepidopus caudatus	1.98	0	0.14	
Thyrssites atun	1.19	2	0.08	1246
Mursia cristimanus	0.76	22	0.05	
Maurollicus muelleri	0.00	0	0.00	
Total	1446.46		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 125  
 DATE :04/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 34°33.23  
 start stop duration Purpose : 3  
 TIME :06:22:46 06:53:00 30.2 (min) Lon E 17°56.16  
 LOG : 8242.55 8244.04 1.5 Region : 6000  
 FDEPTH: 435 435 Gear cond.: 0  
 BDEPTH: 435 435 Validity : 0  
 Towing dir: 0° Wire out : 1100 m Speed : 3.0 km  
 Sorted : 145 Total catch: 1793.31 Catch/hour: 3559.33

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 128  
 DATE :04/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 34°19.41  
 start stop duration Purpose : 3  
 TIME :12:04:10 12:34:14 30.1 (min) Lon E 18°11.91  
 LOG : 8273.11 8274.57 1.5 Region : 6000  
 FDEPTH: 286 286 Gear cond.: 0  
 BDEPTH: 286 286 Validity : 0  
 Towing dir: 0° Wire out : 720 m Speed : 2.9 km  
 Sorted : 160 Total catch: 738.83 Catch/hour: 1475.21

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	2492.89	8767	70.04	1223
Helicolenus dactylopterus	375.12	4073	10.54	1224
Caelorinchus simorhynchus	375.12	6820	10.54	
Ophichthus bennettai	115.32	189	3.24	
Anemones, pink	64.31	697	1.81	
Parapagurus dimorphus	53.59	4122	1.51	
G A S T R O P O D S	13.13	857	0.37	
Todaropsis eblanae	12.07	135	0.34	1226
Genypterus capensis	11.71	16	0.33	1222
Starfish	10.46	2092	0.29	
Malacocephalus laevis	8.04	724	0.23	
Lophius vomerinus	7.94	6	0.22	1221
Anemones, white	6.97	54	0.20	
Octopus magnificus	6.65	2	0.19	
Physiculus capensis	2.76	135	0.08	
Rochinia sp.	1.11	28	0.03	
Todaropsis eblanae	1.11	28	0.03	1225
Paracallionymus costatus	0.48	54	0.01	
Rossia enigmatica	0.36	28	0.01	
Lampanyctodes hectoris	0.16	54	0.00	
Shrimps, small, non comm.	0.03	28	0.00	
Maurollicus muelleri	0.00	0	0.00	
Total	3559.32		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	994.34	6246	67.40	1263
Caelorinchus simorhynchus	167.72	0	11.37	
PORIFERA (Sponges)	71.88	0	4.87	
Helicolenus dactylopterus	64.69	431	4.39	1260
Merluccius paradoxus	45.12	74	3.06	1259
Zeus capensis	29.95	60	2.03	1264
Merluccius paradoxus	15.97	12	1.08	1258
G A S T R O P O D S	14.38	0	0.97	
Starfish - rough	9.82	0	0.67	
URCHINS	7.43	60	0.50	
Merluccius capensis	6.39	2	0.43	1255
Todaropsis eblanae	6.23	108	0.42	1261
Lophius vomerinus	5.99	4	0.41	1256
Anemones, red	3.45	96	0.23	
Pterygosquilla armata capensis	3.39	0	0.23	
Merluccius paradoxus	3.27	347	0.22	1262
Spherooides pachgaster	3.23	12	0.22	
Starfish	2.92	48	0.20	
Genypterus capensis	2.60	4	0.18	1257
Octopus vulgaris	2.40	2	0.16	
Black sand dollar	2.10	12	0.14	
Etrumeus whiteheadi	2.04	36	0.14	
Exodromidia sp.	1.80	192	0.12	
Mursia cristimanus	1.67	192	0.11	
Cruriraja parcomaculata	1.50	2	0.10	
Parapagurus pilosimanus	0.96	24	0.06	
Parapagurus dimorphus	0.84	240	0.06	
Starfish (large)	0.80	2	0.05	
P O L Y C H A E T A	0.63	120	0.04	
Rochinia sp.	0.58	96	0.04	
Solenocera africana	0.34	36	0.02	
Starfish - fleshy	0.30	24	0.02	
Sepia sp.	0.14	12	0.01	
Shrimps, small, non comm.	0.12	72	0.01	
Lampanyctodes hectoris	0.12	60	0.01	
Ophiuroidea	0.04	12	0.00	
Pycnogonid	0.04	12	0.00	
Paracallionymus costatus	0.04	12	0.00	
Total	1475.21		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 126  
 DATE :04/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 34°28.97  
 start stop duration Purpose : 3  
 TIME :08:09:24 08:39:30 30.1 (min) Lon E 18°1.38  
 LOG : 8251.41 8252.91 1.5 Region : 6000  
 FDEPTH: 310 311 Gear cond.: 0  
 BDEPTH: 310 311 Validity : 0  
 Towing dir: 0° Wire out : 800 m Speed : 3.0 km  
 Sorted : 195 Total catch: 887.26 Catch/hour: 1768.63

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Helicolenus dactylopterus	657.81	11536	37.19	1234
Todaropsis eblanae	337.28	4047	19.07	1236
Todaropsis eblanae	278.67	3582	15.76	1235
Merluccius paradoxus	162.66	849	9.20	1233
Caelorinchus simorhynchus	116.01	2189	6.56	
Genypterus capensis	32.89	50	1.86	1231
Lepidopus caudatus	29.90	144	1.69	
Merluccius paradoxus	28.50	44	1.61	1227
Merluccius capensis	19.73	8	1.12	1230
G A S T R O P O D S	17.94	544	1.01	
Loligo reynaudi	15.67	48	0.89	1237
Merluccius paradoxus	13.16	10	0.74	1228
Starfish	13.04	2607	0.74	
Lophius vomerinus	10.56	6	0.60	1232
Merluccius capensis	9.97	6	0.56	1229
Zeus capensis	4.66	12	0.26	1239
Scyliorhinus capensis	4.54	12	0.26	
Paracallionymus costatus	3.83	478	0.22	
Parapagurus dimorphus	3.11	383	0.18	
Holohalaelurus regani	2.51	12	0.14	
Loligo reynaudi	2.51	12	0.14	1238
Parapagurus pilosimanus	1.91	155	0.11	
Bathypolypus valdiviae	0.93	12	0.05	
Rochinia sp.	0.25	84	0.01	
Mursia cristimanus	0.25	24	0.01	
Anemones, red	0.16	12	0.01	
Sepia typica	0.10	24	0.01	
Merluccius paradoxus	0.07	24	0.00	1240
Maurollicus muelleri	0.00	0	0.00	
Total	1768.63		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 129  
 DATE :04/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 34°16.19  
 start stop duration Purpose : 3  
 TIME :14:45:09 15:15:49 30.7 (min) Lon E 18°13.80  
 LOG : 8289.84 8291.50 1.7 Region : 6000  
 FDEPTH: 169 169 Gear cond.: 0  
 BDEPTH: 169 169 Validity : 0  
 Towing dir: 0° Wire out : 540 m Speed : 3.2 km  
 Sorted : 410 Total catch: 635.08 Catch/hour: 1242.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Jasusalandii	455.82	739	36.69	1265
Merlucciuscapensis	264.10	712	21.26	1272
Todaropsis eblanae	70.43	380	5.67	1280
Todaropsis eblanae	70.43	335	5.67	1279
Chelidonichthyscapensis	50.86	112	4.09	1267
Merluccius paradoxus	48.26	291	3.88	1273
Callorhynchuscapensis	39.13	22	3.15	
Merlucciuscapensis	37.17	18	2.99	1271
Lophiusvomerinus	29.34	31	2.36	1268
Pterygosquilla armatacapensis	25.09	0	2.02	
Zeuscapensis	20.60	229	1.66	1275
Thyrssitesatum	17.61	23	1.42	1266
Starfish - rough	16.20	0	1.30	
Musteluspalumbes	14.87	2	1.20	
Etrumeuswhiteheadi	13.03	72	1.05	
Brama brama	12.91	8	1.04	1269
Sepia australis	10.12	0	0.81	
Raja straeleni	7.83	12	0.63	
Mursiacristimanus	5.55	0	0.45	
Merlucciuscapensis	4.50	4	0.36	1270
Starfish	3.70	88	0.30	
Rajapullopunctata	3.52	2	0.28	
Anemones, red	3.02	0	0.24	
Congiopodus spinifer	2.91	43	0.23	
Helicolenus dactylopterus	2.55	98	0.21	1274
Sepia hieronis	2.10	0	0.17	
Caelorinchus simorhynchus	1.86	0	0.15	
Lepidopus caudatus	1.58	43	0.13	
Merluccius paradoxus	1.32	246	0.11	1276
Loligo reynaudi	1.28	0	0.10	1281
G A S T R O P O D S	0.92	0	0.07	
Myxinecapensis	0.79	8	0.06	
Trachuruscapensis	0.78	8	0.06	1277
Octopus magnificus	0.45	2	0.04	
Rochinia sp.	0.44	0	0.04	
Ascidacea	0.43	0	0.03	
Hermits, mixed	0.35	0	0.03	
Solenocera africana	0.23	0	0.02	
P O L Y C H A E T A	0.16	0	0.01	
Paracallionymus costatus	0.16	0	0.01	
Inioteuthis capensis	0.02	0	0.00	
Total	1242.40		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 130  
 DATE :05/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 33°53.69  
 start stop duration Purpose : 3  
 TIME :04:14:27 04:44:25 30.0 (min) Lon E 17°26.10  
 LOG : 8359.02 8360.55 1.5 Region : 6000  
 FDEPTH: 586 578 Gear cond.: 0  
 BDEPTH: 586 578 Validity : 0  
 Towing dir: 0° Wire out : 1420 m Speed : 3.1 km  
 Sorted : 218 Total catch: 217.61 Catch/hour: 435.65

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Caelorinchus braueri	152.15	1522	34.93	
Chaceon sp.	72.07	627	16.54	
Merluccius paradoxus	64.06	52	14.71	1283
Lepidioncapensis	24.02	126	5.51	
P O L Y C H A E T A	19.02	2717	4.37	
Merluccius paradoxus	14.01	18	3.22	1282
Squalus mitsukurii	13.61	2	3.12	
Anemones, pink	12.61	104	2.90	
Helicolenus dactylopterus	10.41	80	2.39	1285
Bassanago albescens	10.41	30	2.39	
Starfish - rough	7.61	761	1.75	
Trachyscorpia eschmeyeri	5.21	48	1.19	1286
Notacanthus sexspinis	4.40	60	1.01	
Etmopterus brachyurus	4.00	38	0.92	
Histioteuthis miranda	2.80	2	0.64	
Lophiusvomerinus	2.60	2	0.60	1284
Nezumia sp.	2.40	26	0.55	
Hydrolagus sp.	2.40	4	0.55	
Raja caudaspinosa	1.90	6	0.44	
Psychrolutes macrocephalus	1.52	8	0.35	
Funchalia woodwardi	1.48	114	0.34	
Eptatretus profundus	1.20	2	0.28	
Myxinecapensis	1.06	14	0.24	
G A S T R O P O D S	1.00	32	0.23	
Sergia sp.	0.74	82	0.17	
Sea cucumber	0.64	4	0.15	
Kuronezumia leonis	0.49	6	0.11	
Nezumia sp.	0.48	100	0.11	0
Tripterophycis gilchristi	0.31	12	0.07	
Shark eggs	0.25	26	0.06	
Caelorinchus matamua	0.17	6	0.04	
Selachophidium guentheri	0.11	2	0.03	
Lucigadus ori	0.10	6	0.02	
Lycoteuthis lorigera	0.08	2	0.02	
Gymnoscopelus sp.	0.08	4	0.02	
PARALEPIDIDAE	0.08	4	0.02	
Raja leopardus	0.06	4	0.01	
Hoplostethus mediterraneus	0.02	2	0.00	
Mursiacristimanus	0.01	2	0.00	
Diaphus sp.	0.01	2	0.00	
Anemones, red	0.01	4	0.00	
Rochinia sp.	0.01	2	0.00	
Myctophum sp.	0.00	2	0.00	
Total	435.65		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 131  
 DATE :05/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 33°52.97  
 start stop duration Purpose : 3  
 TIME :06:11:16 06:41:19 30.1 (min) Lon E 17°28.22  
 LOG : 8367.97 8369.43 1.5 Region : 6000  
 FDEPTH: 458 453 Gear cond.: 0  
 BDEPTH: 458 453 Validity : 0  
 Towing dir: 0° Wire out : 1100 m Speed : 2.9 km  
 Sorted : 261 Total catch: 564.52 Catch/hour: 1127.16

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	496.47	1977	44.05	1291
Merluccius paradoxus	245.59	286	21.79	1288
Caelorinchus simorhynchus	92.45	924	8.20	
Merluccius paradoxus	91.85	172	8.15	1287
Helicolenus dactylopterus	46.92	264	4.16	1293
Notacanthus sexspinis	32.15	361	2.85	
Starfish	18.57	2652	1.65	
Merluccius paradoxus	16.33	359	1.45	1292
ANTHOZOA (Sea anemones)	15.39	204	1.37	
Bassanago albescens	13.34	20	1.18	
Octopus magnificus	11.98	2	1.06	
Lophiusvomerinus	8.23	4	0.73	1289
Physiculuscapensis	7.89	343	0.70	
Genypterus capensis	7.19	4	0.64	1290
Caelorinchus braueri	6.43	268	0.57	
Lucigadus ori	4.57	571	0.41	
Raja caudaspinosa	1.96	10	0.17	
Paracallionymus costatus	1.76	30	0.16	
Malacocephalus laevis	1.64	10	0.15	
Lycoteuthis lorigera	1.24	30	0.11	
Lampanyctodes hectoris	0.98	0	0.09	
Mauroliscus muelleri	0.98	0	0.09	
Hoplostethus mediterraneus	0.92	10	0.08	
G A S T R O P O D S	0.79	186	0.07	
Funchalia woodwardi	0.42	58	0.04	
Stereomastis sp.	0.30	68	0.03	
Etmopterus brachyurus	0.28	10	0.02	
Tripterophycis gilchristi	0.21	10	0.02	
Symblophorus boops	0.17	10	0.01	
Parapagurus pilosimanus	0.15	10	0.01	
Rochinia sp.	0.02	10	0.00	
Lampanyctodes hectoris	0.02	10	0.00	0
Total	1127.16		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 132  
 DATE :05/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 33°51.04  
 start stop duration Purpose : 3  
 TIME :08:04:14 08:34:04 29.8 (min) Lon E 17°32.49  
 LOG : 8375.44 8376.93 1.5 Region : 6000  
 FDEPTH: 313 304 Gear cond.: 0  
 BDEPTH: 313 304 Validity : 0  
 Towing dir: 0° Wire out : 800 m Speed : 3.0 km  
 Sorted : 306 Total catch: 3755.91 Catch/hour: 7554.63

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	5143.14	28596	68.08	1297
Parapagurus dimorphus	625.54	39098	8.28	
Merluccius paradoxus	625.04	455	8.27	1299
Caelorinchus simorhynchus	406.30	8126	5.38	
Merluccius capensis	285.62	143	3.78	1300
Lepidopus caudatus	170.47	284	2.26	
Malacocephalus laevis	162.55	597	0.83	
Lophiusvomerinus	42.24	36	0.56	1294
Brama brama	26.95	18	0.36	1295
Anemones, pink	25.28	84	0.33	
Zeuscapensis	24.70	84	0.33	1302
Loligo reynaudi	22.44	56	0.30	1306
Merluccius paradoxus	17.00	28	0.22	1298
Helicolenus dactylopterus	12.78	227	0.17	1301
Todaropsis eblanae	10.52	115	0.14	1303
Genypterus capensis	10.06	14	0.13	1296
Todaropsis eblanae	7.64	84	0.10	1304
G A S T R O P O D S	7.39	284	0.10	
Raja straeleni	7.24	2	0.10	
Starfish	6.84	1024	0.09	
Holohalaelurus regani	5.41	28	0.07	
Trachuruscapensis	4.50	28	0.06	1305
Paracallionymus costatus	2.04	255	0.03	
Exodromia sp.	1.31	28	0.02	
Rossia enigmatica	0.85	28	0.01	
Physiculuscapensis	0.77	28	0.01	
Total	7554.63		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 133  
 DATE :05/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 33°44.99  
 start stop duration Purpose : 3  
 TIME :09:48:13 10:18:25 30.2 (min) Lon E 17°39.66  
 LOG : 8385.09 8386.63 1.5 Region : 6000  
 FDEPTH: 247 244 Gear cond.: 0  
 BDEPTH: 247 244 Validity : 0  
 Towing dir: 0° Wire out : 630 m Speed : 3.0 km  
 Sorted : 144 Total catch: 1197.90 Catch/hour: 2379.93

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Trachuruscapensis	844.37	5607	35.48	1315
Parapagurus dimorphus	709.27	70927	29.80	
Merluccius paradoxus	439.07	2634	18.45	1314
Loligo reynaudi	54.38	169	2.28	1321
Merluccius capensis	49.67	113	2.09	1311
Todaropsis eblanae	43.23	473	1.82	1319
Raja straeleni	37.75	20	1.59	
Chelidonichthys capensis	28.71	34	1.21	1316
Holohalaelurus regani	23.30	68	0.98	
Caelorinchus simorhynchus	22.97	270	0.97	
Todaropsis eblanae	20.94	270	0.88	1318
Merluccius capensis	17.88	12	0.75	1310
Callorhynchuscapensis	16.29	6	0.68	
Zeuscapensis	12.50	68	0.53	1317
Lophiusvomerinus	12.32	12	0.52	1309
Brama brama	9.93	8	0.42	1308
Merluccius paradoxus	6.36	6	0.27	1312
Starfish red	6.11	135	0.26	
Loligo reynaudi	5.07	34	0.21	1320
G A S T R O P O D S	3.75	68	0.16	
Lepidopus caudatus	3.14	34	0.13	
Paracallionymus costatus	3.11	473	0.13	
Genypterus capensis	2.58	4	0.11	1307
Heart urchin	2.53	135	0.11	
Starfish - rough	1.62	338	0.07	0
Merluccius paradoxus	1.39	2	0.06	1313
Helicolenus dactylopterus	1.05	34	0.04	1322
B I V A L V E S	0.44	68	0.02	
Starfish - rough	0.20	34	0.01	
Total	2379.93		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 134  
 DATE :05/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 33°39.69  
 start stop duration Purpose : 3  
 TIME :12:03:11 12:33:11 30.0 (min) Lon E 17°50.06  
 LOG : 8398.15 8399.65 1.5 Region : 6000  
 FDEPTH: 187 186 Gear cond.: 0  
 BDEPTH: 187 186 Validity : 0  
 Towing dir: 0° Wire out : 470 m Speed : 3.0 km  
 Sorted : 150 Total catch: 1094.04 Catch/hour: 2188.09

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	1188.00	15008	54.29	1326
Chelidonichthys capensis	264.00	760	12.07	1325
Parapagurus dimorphus	198.00	11648	9.05	
Lampanyctodes hectoris	148.00	42286	6.76	
Lampanyctodes hectoris	71.82	892	3.28	0
Parapagurus dimorphus	49.72	128	2.27	0
Trachurus capensis	41.30	100	1.89	1327
Merluccius paradoxus	33.80	3988	1.54	1329
Callorhynchus capensis	32.00	14	1.46	
Lophius vomerinus	25.24	0	1.15	
Todaropsis eblanae	22.12	0	1.01	
Todaropsis eblanae	19.98	364	0.91	1328
Paracallionymus costatus	11.88	1698	0.54	
Zeus capensis	10.00	116	0.46	1331
Cynoglossus zanzibarensis	9.58	166	0.44	1334
Brama brama	9.20	4	0.42	1323
Merluccius capensis	7.33	16	0.33	1336
URCHINS	6.35	184	0.29	
Raja straeleni	6.00	2	0.27	
Merluccius paradoxus	5.06	26	0.23	
Mustelus palumbes	4.80	2	0.22	
Paracallionymus costatus	3.22	460	0.15	0
Holohalaelurus regani	3.14	34	0.14	
Helicolenus dactylopterus	3.14	132	0.14	1333
Loligo reynaudi	3.04	16	0.14	1335
URCHINS	2.57	50	0.12	0
Pterygosquilla armata capensis	2.08	330	0.10	0
Pterygosquilla armata capensis	1.24	184	0.06	
Caelorinchus simorhynchus	1.20	92	0.05	
Starfish	0.92	138	0.04	
Sepia hieronis	0.71	34	0.03	
Sepia australis	0.60	46	0.03	
Dromidia sp.	0.55	46	0.03	
Lamp shell	0.37	46	0.02	
Physiculus capensis	0.35	16	0.02	
Sepia australis	0.33	50	0.02	0
Lepidopus caudatus	0.31	16	0.01	
Starfish	0.13	16	0.01	0
Maurollicus muelleri	0.00	0	0.00	
Total	2188.09		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 135  
 DATE :05/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 33°36.74  
 start stop duration Purpose : 3  
 TIME :13:47:12 14:18:15 31.1 (min) Lon E 17°56.70  
 LOG : 8407.33 8408.83 1.5 Region : 6000  
 FDEPTH: 160 160 Gear cond.: 0  
 BDEPTH: 160 160 Validity : 0  
 Towing dir: 0° Wire out : 0 m Speed : 2.9 km  
 Sorted : 141 Total catch: 1071.34 Catch/hour: 2070.22

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	1051.21	9057	50.78	1337
Lampanyctodes hectoris	427.05	854106	20.63	
Pterygosquilla armata capensis	345.89	32943	16.71	0
Chelidonichthys capensis	88.70	230	4.28	1338
Merluccius paradoxus	54.20	4336	2.62	1341
Callorhynchus capensis	28.02	21	1.35	
Todaropsis eblanae	26.78	1036	1.29	1342
Merluccius capensis	14.30	50	0.69	1345
Starfish	8.70	1243	0.42	
Thyrssites atun	5.22	2	0.25	1344
G A S T R O P O D S	3.63	83	0.18	
Lepidopus caudatus	3.45	263	0.17	
Genypterus capensis	2.43	17	0.12	1339
Cynoglossus zanzibarensis	2.30	33	0.11	1340
Paracallionymus costatus	1.97	263	0.10	
Sepia australis	1.69	83	0.08	
Helicolenus dactylopterus	1.22	50	0.06	1343
Parapagurus dimorphus	1.07	247	0.05	
Exodromidia sp.	1.05	83	0.05	
Sepia hieronis	0.62	17	0.03	
Caelorinchus simorhynchus	0.43	33	0.02	
CYPRAEIDAE (Bulia)	0.14	17	0.01	
Lolligoncula mercatoris	0.08	33	0.00	
Physiculus capensis	0.07	17	0.00	
Total	2070.22		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 136  
 DATE :05/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 33°17.12  
 start stop duration Purpose : 3  
 TIME :16:53:41 17:23:43 30.0 (min) Lon E 17°42.50  
 LOG : 8430.57 8432.08 1.5 Region : 6000  
 FDEPTH: 187 189 Gear cond.: 0  
 BDEPTH: 187 189 Validity : 0  
 Towing dir: 0° Wire out : 0 m Speed : 3.0 km  
 Sorted : 49 Total catch: 880.98 Catch/hour: 1760.78

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Lampanyctodes hectoris	671.55	191872	38.14	
Merluccius paradoxus	489.27	2430	27.79	1352
Pterygosquilla armata capensis	479.68	95936	27.24	
Todaropsis eblanae	26.38	432	1.50	1349
Todaropsis eblanae	19.67	384	1.12	1348
Paracallionymus costatus	13.00	1439	0.74	
Lophius vomerinus	11.49	6	0.65	1347
Etrumeus whiteheadi	10.17	192	0.58	
Callorhynchus capensis	9.99	4	0.57	
Myxine capensis	8.15	48	0.46	
Caelorinchus simorhynchus	5.52	480	0.31	
Starfish	3.26	480	0.19	
Lepidopus caudatus	3.21	48	0.18	
Helicolenus dactylopterus	2.73	96	0.16	1350
Thyrssites atun	1.70	2	0.10	1353
Chelidonichthys capensis	1.60	2	0.09	1346
Lamp shell	1.25	192	0.07	
Exodromidia sp.	1.10	96	0.06	
Sardinops ocellatus	0.61	6	0.03	1351
Sepia australis	0.24	48	0.01	
Parapagurus dimorphus	0.19	48	0.01	
Total	1760.78		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 137  
 DATE :06/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 33°30.84  
 start stop duration Purpose : 3  
 TIME :04:16:11 04:46:16 30.1 (min) Lon E 17°27.84  
 LOG : 8461.89 8463.35 1.5 Region : 6000  
 FDEPTH: 478 478 Gear cond.: 0  
 BDEPTH: 478 478 Validity : 0  
 Towing dir: 0° Wire out : 1200 m Speed : 2.9 km  
 Sorted : 86 Total catch: 290.71 Catch/hour: 579.67

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Caelorinchus simorhynchus	149.55	0	25.80	
Chaceon sp.	149.55	0	25.80	
Bassanago albescens	60.82	120	10.49	
Starfish	59.82	0	10.32	
Etmopterus lucifer	28.32	189	4.88	
Genypterus capensis	27.92	8	4.82	1354
Merluccius paradoxus	21.93	20	3.78	1359
Notacanthus sexspinis	21.93	140	3.78	
Etmopterus brachyurus	15.95	479	2.75	
Lophius vomerinus	11.96	6	2.06	1355
Psychrolutes macrocephalus	7.98	20	1.38	
Helicolenus dactylopterus	3.29	32	0.57	1356
G A S T R O P O D S	3.26	120	0.56	
Merluccius paradoxus	2.79	6	0.48	1358
Anemones, pink	2.64	30	0.46	
Merluccius paradoxus	2.59	14	0.45	1357
Lucigadus ori	1.91	339	0.33	
Hoplostethus mediterraneus	1.79	30	0.31	
Caelorinchus braueri	1.55	239	0.27	
Teretocotopus sp.	1.17	10	0.20	
Plesionika martia	1.00	0	0.17	
Chlorophthalmus punctatus	0.47	10	0.08	
Tripteryphycis gilchristi	0.46	20	0.08	
Lampanyctodes hectoris	0.34	120	0.06	
Rossia enigmatica	0.33	20	0.06	
Symblophorus boops	0.20	10	0.03	
Physiculus capensis	0.12	20	0.02	
Maurollicus muelleri	0.02	20	0.00	
Merluccius paradoxus	0.01	10	0.00	1360
Total	579.67		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 138  
 DATE :06/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 33°26.63  
 start stop duration Purpose : 3  
 TIME :05:56:14 06:26:05 29.9 (min) Lon E 17°31.68  
 LOG : 8469.08 8470.53 1.5 Region : 6000  
 FDEPTH: 414 417 Gear cond.: 0  
 BDEPTH: 414 417 Validity : 0  
 Towing dir: 0° Wire out : 1040 m Speed : 2.9 km  
 Sorted : 105 Total catch: 187.86 Catch/hour: 377.61

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Caelorinchus simorhynchus	145.73	2697	38.59	
Merluccius paradoxus	60.30	42	15.97	1364
Starfish - rough	46.73	0	12.38	
Etmopterus lucifer	32.66	131	8.65	
Merluccius paradoxus	20.10	109	5.32	1362
G A S T R O P O D S	10.05	271	2.66	
Starfish - fleshy	8.64	36	2.29	
Merluccius capensis	8.04	2	2.13	1365
Parapagurus pilosimanus	6.83	253	1.81	
Genypterus capensis	6.83	8	1.81	1361
Myxine capensis	5.03	50	1.33	
Notacanthus sexspinis	4.47	40	1.18	
Todaropsis eblanae	4.37	101	1.16	1369
Merluccius paradoxus	3.52	8	0.93	1363
Helicolenus dactylopterus	3.43	24	0.91	1366
Bassanago albescens	2.01	4	0.53	
Anemones, white	1.34	16	0.36	
Zeus capensis	1.12	4	0.30	1368
Merluccius paradoxus	1.06	201	0.28	1367
Lampanyctodes hectoris	1.01	0	0.27	
Rochinia sp.	0.98	145	0.26	
Lucigadus ori	0.76	101	0.20	
Mursia cristimanus	0.46	50	0.12	
Funchalia woodwardi	0.40	56	0.11	
Physiculus capensis	0.31	20	0.08	
Malacocephalus laevis	0.29	4	0.08	
Psychrolutes macrocephalus	0.20	16	0.05	
Heart urchin	0.19	20	0.05	
Paracallionymus costatus	0.17	24	0.04	
Hoplostethus mediterraneus	0.16	16	0.04	
Rossia enigmatica	0.13	4	0.03	
Plesionika martia	0.11	60	0.03	
Stereomastis sp.	0.07	20	0.02	
Caelorinchus braueri	0.04	4	0.01	
Anemones, yellow	0.03	4	0.01	
Stoloteuthis sp.	0.02	4	0.01	
Bathypolypus valdiviae	0.02	4	0.01	
Sepia hieronis	0.02	4	0.00	
Total	377.61		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 139  
 DATE :06/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 33°16.73  
 start stop duration Purpose : 3  
 TIME :08:53:11 09:23:30 30.3 (min) Lon E 17°15.89  
 LOG : 8487.73 8489.19 1.5 Region : 6000  
 FDEPTH: 437 462 Gear cond.: 0  
 BDEPTH: 437 462 Validity : 0  
 Towing dir: 0° Wire out : 1080 m Speed : 2.9 km  
 Sorted : 369 Total catch: 1762.40 Catch/hour: 3487.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	2153.03	6619	61.73	1376
Helicolenus dactylopterus	672.82	5739	19.29	1371
Merluccius paradoxus	217.68	109	6.24	1375
Bassanago albescens	112.70	135	3.23	
Caelorinchus simorhynchus	109.33	0	3.13	
Lophius vomerinus	81.13	14	2.33	1374
Genypterus capensis	31.66	8	0.91	1372
Brama brama	26.52	16	0.76	1373
Starfish	21.87	0	0.63	
Basket star	15.47	235	0.44	
Parapagurus pilosimanus	14.47	0	0.41	
G A S T R O P O D S	14.30	493	0.41	
Anemones, white	4.71	101	0.14	
Merluccius paradoxus	3.56	4	0.10	1370
Todarodes angolemsis	2.37	2	0.07	1377
Lampanyctodes hectoris	1.46	471	0.04	
Lucigadus ori	1.31	168	0.04	
Symblophorus boops	0.94	67	0.03	
Haliporoides triarthrus	0.42	34	0.01	
Stereomastis sp.	0.39	51	0.01	
PARAPAGURIDAE *	0.27	16	0.01	
Paracallionymus costatus	0.22	16	0.01	
Physiculus capensis	0.22	34	0.01	
PARALEPIDIDAE	0.20	16	0.01	
Plesionika martia	0.20	51	0.01	
Rossia enigmatica	0.15	16	0.00	
Tripteryphycis gilchristi	0.12	16	0.00	
Hoplostethus mediterraneus	0.03	16	0.00	
Chaceon sp.	0.03	16	0.00	
Total	3487.60		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 140  
 DATE :06/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 33°13.12 Lon E 17°17.80  
 start stop duration Purpose : 3  
 TIME :11:00:54 11:30:33 29.7 (min) Region : 6000  
 LOG : 8493.33 8494.83 1.5 Gear cond.: 0  
 FDEPTH: 401 389 Validity : 0  
 BDEPTH: 401 389  
 Towing dir: 0° Wire out : 1000 m Speed : 3.0 km  
 Sorted : 443 Total catch: 3238.01 Catch/hour: 6552.46

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	5585.16	15108	85.24	1378
Merluccius paradoxus	220.57	127	3.37	1385
Parapagurus dimorphus	191.49	27355	2.92	
Caelorinchus simorhynchus	132.97	1955	2.03	
Helicolenus dactylopterus	106.38	637	1.62	1380
Brama brama	101.18	67	1.54	1379
Lophius vomerinus	66.78	18	1.02	1381
Genypterus capensis	24.28	24	0.37	1382
Beryx splendens	23.94	79	0.37	1383
Starfish	19.67	820	0.30	
Bassanago albescens	15.95	26	0.24	
Octopus magnificus	11.33	2	0.17	
G A S T R O P O D S	10.64	637	0.16	
Merluccius paradoxus	6.07	6	0.09	1384
Parapagurus pilosimanus	5.65	320	0.09	
Anemones, pink	5.44	26	0.08	
Bristle worms	5.32	0	0.08	
Rossia enigmatica	3.66	26	0.06	
Symbolophorus boops	3.12	212	0.05	
Lucigadus ori	2.79	480	0.04	
Lampanyctodes hectoris	2.66	0	0.04	
Maurolicus muelleri	2.66	0	0.04	
Mursia cristimanus	1.09	134	0.02	
Stereomastix sp.	1.05	26	0.02	
Bathypolypus validiviae	0.65	79	0.01	
Exodromidia sp.	0.57	79	0.01	
Paracallionymus costatus	0.51	53	0.01	
Rochinia sp.	0.26	79	0.00	
Psychrolutes macrocephalus	0.24	53	0.00	
Sepia hieronisi	0.20	26	0.00	
Tripterygiopsis gilchristi	0.16	26	0.00	
Total	6552.46		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 141  
 DATE :06/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 33°5.21 Lon E 17°31.18  
 start stop duration Purpose : 3  
 TIME :13:39:24 14:09:07 29.7 (min) Region : 6000  
 LOG : 8508.63 8510.09 1.5 Gear cond.: 0  
 FDEPTH: 342 334 Validity : 0  
 BDEPTH: 342 334  
 Towing dir: 0° Wire out : 840 m Speed : 3.0 km  
 Sorted : 172 Total catch: 980.56 Catch/hour: 1979.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	1611.04	8384	81.38	1389
Merluccius paradoxus	121.13	121	6.12	1390
Caelorinchus simorhynchus	92.06	1011	4.65	
Trachurus capensis	24.23	85	1.22	1391
Parapagurus dimorphus	22.65	3236	1.14	
PORIFERA (Sponges)	16.84	0	0.85	
Rochinia sp.	13.08	818	0.66	
Starfish	11.39	0	0.58	
Helicolenus dactylopterus	10.90	48	0.55	1392
Emmelichthys nitidus	10.66	24	0.54	
Octopus magnificus	10.09	2	0.51	
Todaropsis eblanae	8.36	0	0.42	1393
G A S T R O P O D S	5.87	307	0.01	
Brama brama	5.45	4	0.28	1387
Parapagurus pilosimanus	4.60	254	0.23	
Mursia cristimanus	3.60	388	0.18	
Lophius vomerinus	3.43	2	0.17	1388
Genypterus capensis	1.62	2	0.08	1386
Exodromidia sp.	0.65	97	0.03	
Merluccius paradoxus	0.63	109	0.03	1394
Cruriraja parcomaculata, juvenile	0.56	12	0.03	
Sepia sp.	0.28	48	0.01	
PARALEPIDIDAE	0.16	12	0.01	
Lucigadus ori	0.12	24	0.01	
Abrialopsis gilchristi	0.11	24	0.01	
Sepia pulchra	0.08	12	0.00	0
B I V A L V E S	0.06	12	0.00	
Argyrolepeca aculeatus	0.01	12	0.00	
MYCTOPHIDAE	0.00	0	0.00	
Total	1979.60		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 142  
 DATE :06/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 32°52.52 Lon E 17°20.94  
 start stop duration Purpose : 3  
 TIME :16:18:21 16:48:30 30.2 (min) Region : 6000  
 LOG : 8525.16 8526.71 1.6 Gear cond.: 0  
 FDEPTH: 303 306 Validity : 0  
 BDEPTH: 303 306  
 Towing dir: 0° Wire out : 750 m Speed : 3.1 km  
 Sorted : 98 Total catch: 988.85 Catch/hour: 1967.86

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	1552.24	10418	78.88	1399
Caelorinchus simorhynchus	79.10	1582	4.02	
Helicolenus dactylopterus	47.76	775	2.43	1403
Zeus capensis	46.27	60	2.35	1404
Todaropsis eblanae	37.31	478	1.90	1405
Holohalaelurus regani	36.42	60	1.85	
Todaropsis eblanae	24.78	269	1.26	1406
Merluccius capensis	16.72	6	0.85	1402
Merluccius paradoxus	15.92	16	0.81	1401
Bristle worms	15.22	1902	0.77	
Starfish	14.03	0	0.71	
G A S T R O P O D S	11.04	836	0.56	
Lophius vomerinus	9.55	6	0.49	1396
Brama brama	8.96	6	0.46	1395
Exodromidia sp.	7.76	836	0.39	
Trachurus capensis	7.56	32	0.38	1398
Paracallionymus costatus	6.24	836	0.32	
Hermits, mixed	4.66	299	0.24	
Rochinia sp.	4.57	627	0.23	
Raja wallacei	3.98	2	0.20	
Mursia cristimanus	3.22	627	0.16	
Parapagurus pilosimanus	3.07	179	0.16	
Molluscs	2.87	328	0.15	
Genypterus capensis	2.49	2	0.13	1397
Octopus magnificus	1.99	2	0.10	
Merluccius paradoxus	1.29	2	0.07	1400
Chlorophthalmus punctatus	1.28	30	0.07	
Merluccius paradoxus	0.96	119	0.05	1407
Sepia sp.	0.42	90	0.02	
Rossia enigmatica	0.18	30	0.01	
Total	1967.86		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 143  
 DATE :07/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 32°55.33 Lon E 17°41.99  
 start stop duration Purpose : 3  
 TIME :04:13:17 04:42:26 29.2 (min) Region : 6000  
 LOG : 8559.79 8561.20 1.4 Gear cond.: 0  
 FDEPTH: 162 163 Validity : 0  
 BDEPTH: 162 163  
 Towing dir: 0° Wire out : 400 m Speed : 2.9 km  
 Sorted : 81 Total catch: 892.07 Catch/hour: 1836.17

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius capensis	1163.98	14200	63.39	1408
Pterygosquilla armata capensis	507.38	28187	27.63	
Lampanyctodes hectoris	32.23	9209	1.76	
Chelidonicichthys capensis	30.14	60	1.64	1411
Callorhynchus capensis	24.70	23	1.35	
JELLYFISH	22.98	0	1.25	
Todaropsis eblanae	22.09	776	1.20	1410
Octopus magnificus	12.76	2	0.70	
Merluccius paradoxus	5.35	16	0.29	1409
Exodromidia sp.	3.61	239	0.20	
Cynoglossus zanzibarensis	2.42	29	0.13	1415
Sepia hieronisi	1.52	60	0.08	
Starfish red	1.28	210	0.07	
Helicolenus dactylopterus	0.99	60	0.05	1414
Mursia cristimanus	0.93	91	0.05	
Merluccius paradoxus	0.90	119	0.05	1416
G A S T R O P O D S	0.84	29	0.05	
Merluccius capensis	0.75	119	0.04	1412
Sepia australis	0.75	119	0.04	
Genypterus capensis	0.32	29	0.02	1413
Rochinia sp.	0.27	60	0.01	
Total	1836.17		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 144  
 DATE :07/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 32°41.44 Lon E 17°36.83  
 start stop duration Purpose : 3  
 TIME :06:44:53 07:08:01 23.1 (min) Region : 6000  
 LOG : 8575.57 8576.75 1.2 Gear cond.: 0  
 FDEPTH: 237 231 Validity : 0  
 BDEPTH: 237 231  
 Towing dir: 0° Wire out : 600 m Speed : 3.1 km  
 Sorted : 104 Total catch: 1077.90 Catch/hour: 2796.11

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	2075.23	16682	74.22	1421
Parapagurus dimorphus	261.48	26148	9.35	
Lampanyctodes hectoris	166.02	46117	5.94	
Caelorinchus simorhynchus	132.81	1795	4.75	
Merluccius paradoxus	33.72	60	1.21	1422
Merluccius paradoxus	33.72	57	1.21	1417
Loligo reynaudi	22.70	42	0.81	1424
Raja straeleni	19.46	5	0.70	
Paracallionymus costatus	17.43	2324	0.62	
Lophius vomerinus	11.67	8	0.42	1419
Pterygosquilla armata capensis	9.96	1079	0.36	
Todaropsis eblanae	3.07	42	0.11	1425
Helicolenus dactylopterus	2.86	83	0.10	1423
Solenocera sp.	1.66	208	0.06	
Genypterus capensis	1.56	5	0.06	1418
Exodromidia sp.	1.45	125	0.05	
Merluccius capensis	1.30	3	0.05	1420
Total	2796.11		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 145  
 DATE :07/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 32°32.76 Lon E 17°46.02  
 start stop duration Purpose : 3  
 TIME :08:45:18 09:15:18 30.0 (min) Region : 6000  
 LOG : 8588.04 8589.48 1.4 Gear cond.: 0  
 FDEPTH: 152 158 Validity : 0  
 BDEPTH: 152 158  
 Towing dir: 0° Wire out : 380 m Speed : 2.9 km  
 Sorted : 63 Total catch: 2882.02 Catch/hour: 5764.04

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Lampanyctodes hectoris	5016.00	18810000	87.02	
Pterygosquilla armata capensis	488.40	40700	8.47	
Merluccius capensis	175.56	2640	3.05	1426
Galeorhinus galeus, female	30.00	2	0.52	
Helicolenus dactylopterus	14.39	528	0.25	1429
JELLYFISH	13.20	0	0.23	
Sepia australis	6.86	132	0.12	
Genypterus capensis	6.40	4	0.11	1427
Todaropsis eblanae	4.62	264	0.08	1431
Chelidonicichthys capensis	3.20	8	0.06	1428
Paracallionymus costatus	1.58	132	0.03	
Lepidopus caudatus	1.45	132	0.03	
Merluccius capensis	1.32	132	0.02	1430
Starfish red	1.06	132	0.02	
Total	5764.04		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 146  
 DATE :07/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 32°24.48 Lon E 18°4.11  
 start stop duration Purpose : 3  
 TIME :11:22:57 11:52:53 29.9 (min) Region : 6000  
 LOG : 8606.73 8608.20 1.5 Gear cond.: 0  
 FDEPTH: 94 97 Validity : 0  
 BDEPTH: 94 97  
 Towing dir: 0° Wire out : 260 m Speed : 2.9 km  
 Sorted : 29 Total catch: 942.64 Catch/hour: 1889.69

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Pterygosquilla armata capensis	1854.33	0	98.13	
Sufflogobius bibarbatus	28.19	1038	1.49	
Merluccius capensis	3.83	90	0.20	1434
Jasus lalandii	1.18	12	0.06	1432
Austroglossus microlepis	1.08	10	0.06	1435
Jasus lalandii	0.50	4	0.03	1433
G A S T R O P O D S	0.40	12	0.02	
Exodromidia sp.	0.18	6	0.01	
Total	1889.69		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 147  
 DATE :07/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 32°23.63 Lon E 18°10.96  
 start stop duration Purpose : 3  
 TIME :12:58:59 13:29:01 30.0 (min) Region : 6000  
 LOG : 8615.13 8616.61 1.5 Gear cond.: 0  
 FDEPTH: 71 72 Validity : 9  
 BDEPTH: 71 72  
 Towing dir: 0° Wire out : 195 m Speed : 3.0 km  
 Sorted : 64 Total catch: 64.00 Catch/hour: 127.87

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Pterygosquilla armata capensis	109.89	0	85.94	
JELLYFISH	9.99	0	7.81	
Parapagurus dimorphus	5.99	0	4.69	
G A S T R O P O D S	2.00	0	1.56	
BOULDERS	0.00	0	0.00	
Total	127.87		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 148  
 DATE :07/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 32°0.47  
 Lon E 18°6.77  
 start stop duration Purpose : 3  
 TIME :15:49:24 16:09:25 20.0 (min) Region : 6000  
 LOG : 8638.81 8639.83 1.0 Gear cond.: 0  
 FDEPTH: 107 107 Validity : 0  
 BDEPTH: 107 107 Speed : 3.1 km  
 Towing dir: 0° Wire out : 300 m  
 Sorted : 99 Total catch: 552.49 Catch/hour: 1655.81

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 151  
 DATE :08/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 32°15.49  
 Lon E 17°27.48  
 start stop duration Purpose : 3  
 TIME :07:02:38 07:32:57 30.3 (min) Region : 6000  
 LOG : 8694.02 8695.55 1.5 Gear cond.: 0  
 FDEPTH: 185 181 Validity : 0  
 BDEPTH: 185 181 Speed : 3.0 km  
 Towing dir: 0° Wire out : 470 m  
 Sorted : 181 Total catch: 542.17 Catch/hour: 1072.90

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius capensis	866.13	11742	52.31	1441
Pterygosquilla armata capensis	422.88	14583	25.54	
JELLYFISH	152.85	0	9.23	
Brama brama	83.92	45	5.07	1438
Sufflogobius bibarbatatus	43.05	2266	2.60	
Lampanyctodes hectoris	28.28	8080	1.71	
Chelidonichthys capensis	23.98	63	1.45	1436
Todaropsis eblanae	10.95	62	0.66	1442
Etrumeus whiteheadi	7.13	1783	0.43	
G A S T R O P O D S	6.11	509	0.37	
Callorhynchus capensis	3.00	3	0.18	
Austroglossus microlepis	2.10	6	0.13	1437
Lepidopus caudatus	1.43	126	0.09	
Starfish	1.20	204	0.07	
Lampanyctodes hectoris	0.89	255	0.05	0
Lolligoncula mercatoris	0.69	384	0.04	
Jasus lalandii	0.66	6	0.04	1440
Jasus lalandii	0.33	3	0.02	1439
Merluccius capensis	0.24	27	0.01	1443
Total	1655.81		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	534.30	7164	49.80	1465
Thyrssites atun	158.31	67	14.76	1461
Parapagurus dimorphus	66.49	7387	6.20	
Lampanyctodes hectoris	51.06	30633	4.76	
Maurollicus muelleri	51.06	89347	4.76	
Cynoglossus zanzibarensis	35.62	47	3.32	1462
Pterygosquilla armata capensis	25.17	1935	2.35	
Lophius vomerinus	23.75	57	2.21	1458
JELLYFISH	21.37	0	1.99	
Brama brama	18.80	10	1.75	1460
Paracallionymus costatus	17.57	2929	1.64	
Sepia australis	14.96	1069	1.39	
Merluccius paradoxus	14.25	1389	1.33	1466
Black sand dollar	6.77	166	0.63	
Todaropsis eblanae	6.06	119	0.56	1468
Congiopodus spinifer	5.54	4	0.52	
Genypterus capensis	3.96	16	0.37	1459
Todaropsis eblanae	3.80	83	0.35	1467
Callorhynchus capensis	3.76	2	0.35	
Starfish red	1.96	190	0.18	
Todarodes angolensis	1.48	2	0.14	1464
Caelorhynchus simorhynchus	1.14	59	0.11	
Sepia hieronis	1.13	24	0.11	
Helicolenus dactylopterus	1.09	47	0.10	1469
G A S T R O P O D S	0.87	47	0.09	
Chelidonichthys capensis	0.67	2	0.06	1463
Snail	0.51	12	0.05	
Lophius vomerinus	0.50	12	0.05	1470
Mursia cristimanus	0.46	36	0.04	
Exodromidia sp.	0.25	24	0.02	
P O L Y C H A E T A	0.18	12	0.02	
Solenocera africana	0.07	12	0.01	
Total	1072.90		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 149  
 DATE :07/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 32°1.68  
 Lon E 17°54.97  
 start stop duration Purpose : 3  
 TIME :17:27:25 17:47:56 20.5 (min) Region : 6000  
 LOG : 8650.73 8651.89 1.2 Gear cond.: 0  
 FDEPTH: 125 125 Validity : 0  
 BDEPTH: 125 125 Speed : 3.4 km  
 Towing dir: 0° Wire out : 370 m  
 Sorted : 59 Total catch: 171.00 Catch/hour: 500.00

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 152  
 DATE :08/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 32°22.53  
 Lon E 17°17.63  
 start stop duration Purpose : 3  
 TIME :09:36:21 10:06:17 29.9 (min) Region : 6000  
 LOG : 8710.42 8711.97 1.5 Gear cond.: 0  
 FDEPTH: 244 241 Validity : 0  
 BDEPTH: 244 241 Speed : 3.1 km  
 Towing dir: 0° Wire out : 630 m  
 Sorted : 344 Total catch: 1113.66 Catch/hour: 2232.53

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius capensis	233.92	2719	46.78	1445
Chelidonichthys capensis	90.64	287	18.13	1444
Pterygosquilla armata capensis	81.87	4310	16.37	
JELLYFISH	65.79	0	13.16	
Etrumeus whiteheadi	8.63	175	1.73	
Sepia australis	7.25	468	1.45	
Starfish	4.82	965	0.96	
Sufflogobius bibarbatatus	1.83	117	0.37	
Todaropsis eblanae	1.51	73	0.30	1448
Merluccius capensis	1.26	146	0.25	1446
Exodromidia sp.	0.99	102	0.20	
G A S T R O P O D S	0.94	44	0.19	
Lepidopus caudatus	0.34	15	0.07	
Lolligoncula mercatoris	0.20	102	0.04	
Helicolenus dactylopterus	0.01	15	0.00	1447
Total	500.00		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	1252.92	18561	56.12	1481
Brama brama	202.47	122	9.07	1480
Lampanyctodes hectoris	90.21	40595	4.04	
Lophius vomerinus	80.19	96	3.59	1472
Parapagurus dimorphus	75.18	7518	3.37	
Caelorhynchus simorhynchus	67.66	1734	3.03	
Callorhynchus capensis	66.15	24	2.96	
Black sand dollar	50.12	2005	2.24	
Holohalaelurus regani	44.35	176	1.99	
Hexacornis griseus	40.09	2	1.80	
Merluccius paradoxus	36.33	301	1.63	1482
Raja straeleni	34.08	18	1.53	
Centrolophus niger	32.07	2	1.44	
Merluccius capensis	29.07	22	1.30	1483
Paracallionymus costatus	24.31	4861	1.09	
Thyrssites atun	22.05	12	0.99	1471
Galeorhinus galeus	16.04	2	0.72	
Merluccius paradoxus	14.63	26	0.66	1474
Maurollicus muelleri	10.02	7159	0.45	
Zeus capensis	8.77	76	0.39	1475
Torpedo nobiliana	7.02	2	0.31	
Todaropsis eblanae	6.01	76	0.27	1478
Helicolenus dactylopterus	5.26	225	0.24	1476
Lepidopus caudatus	4.66	50	0.21	
Merluccius paradoxus	4.41	10	0.20	1473
Genypterus capensis	3.81	12	0.17	1479
Todarodes angolensis	2.37	2	0.11	1484
Todaropsis eblanae	1.20	24	0.05	1477
Malacocephalus laevis	0.56	4	0.03	
Starfish	0.50	76	0.02	
Total	2232.53		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 150  
 DATE :08/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 32°10.04  
 Lon E 17°43.45  
 start stop duration Purpose : 3  
 TIME :04:13:40 04:45:04 31.4 (min) Region : 6000  
 LOG : 8674.46 8676.08 1.6 Gear cond.: 0  
 FDEPTH: 155 151 Validity : 0  
 BDEPTH: 155 151 Speed : 3.1 km  
 Towing dir: 0° Wire out : 420 m  
 Sorted : 52 Total catch: 533.44 Catch/hour: 1019.32

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 153  
 DATE :08/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 32°28.31  
 Lon E 17°3.60  
 start stop duration Purpose : 3  
 TIME :12:26:15 12:56:19 30.1 (min) Region : 6000  
 LOG : 8728.07 8729.61 1.6 Gear cond.: 0  
 FDEPTH: 294 294 Validity : 0  
 BDEPTH: 294 294 Speed : 3.1 km  
 Towing dir: 0° Wire out : 745 m  
 Sorted : 376 Total catch: 1225.11 Catch/hour: 2445.32

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Pterygosquilla armata capensis	417.52	23196	40.96	
Merluccius paradoxus	399.36	19569	39.18	1453
Etrumeus whiteheadi	53.73	871	5.27	
Paracallionymus costatus	24.69	2469	2.42	
JELLYFISH	22.87	0	2.24	
Merluccius capensis	21.97	76	2.16	1451
Sepia australis	14.52	871	1.42	
Lepidopus caudatus	9.80	654	0.96	
Merluccius paradoxus	9.55	71	0.94	1452
Genypterus capensis	6.93	36	0.68	1456
Todaropsis eblanae	6.83	218	0.67	1455
SOFT SPONGES	6.69	0	0.66	
Helicolenus dactylopterus	5.16	254	0.51	1454
Cynoglossus zanzibarensis	4.25	73	0.42	1457
G A S T R O P O D S	3.12	73	0.31	
Chelidonichthys capensis	3.06	17	0.30	1449
Callorhynchus capensis	2.77	2	0.27	
Heart urchin	1.74	182	0.17	
Starfish	1.31	254	0.13	
Caelorhynchus simorhynchus	1.31	73	0.13	
Lolligoncula mercatoris	0.62	254	0.06	
Lophius vomerinus	0.61	2	0.06	1450
Exodromidia sp.	0.33	73	0.03	
Solenocera sp.	0.33	36	0.03	
Mollusc eggs	0.25	36	0.02	
Total	1019.32		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	1266.47	8772	51.79	1490
Zeus capensis	275.45	557	11.26	1485
Trachurus capensis	215.57	782	8.82	1489
Brama brama	179.64	124	7.35	1488
Caelorhynchus simorhynchus	169.76	1806	6.94	
Parapagurus dimorphus	113.17	12575	4.63	
Merluccius capensis	63.87	32	2.61	1494
Merluccius paradoxus	30.94	32	1.27	1497
Lophius vomerinus	18.76	12	0.77	1486
Todarodes angolensis	17.60	28	0.72	1493
Anemones, pink	15.37	28	0.63	
Genypterus capensis	11.98	18	0.49	1487
Merluccius capensis	11.58	6	0.47	1495
Malacocephalus laevis	10.08	54	0.41	
Thyrssites atun	9.98	4	0.41	1491
Helicolenus dactylopterus	7.64	82	0.31	1492
Starfish red	6.05	82	0.25	
Raja straeleni	5.99	2	0.24	
Raja leopardus	3.99	2	0.16	
Merluccius paradoxus	3.59	6	0.15	1496
Holohalaelurus regani	3.51	28	0.14	
G A S T R O P O D S	2.53	108	0.10	
Paracallionymus costatus	0.75	54	0.03	
Heart urchin	0.56	28	0.02	
Starfish white 5 arms	0.49	108	0.02	
Total	2445.32		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 154  
 DATE :08/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 32°34.75  
 start stop duration Purpose : 3  
 TIME :14:55:54 15:25:56 30.0 (min) Lon E 16°57.34  
 LOG : 8742.00 8743.57 1.6 Region : 6000  
 FDEPTH: 318 314 Gear cond.: 0  
 BDEPTH: 318 314 Validity : 0  
 Towing dir: 0° Wire out : 815 m Speed : 3.1 km  
 Sorted : 218 Total catch: 796.48 Catch/hour: 1591.90

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 157  
 DATE :09/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 31°47.87  
 start stop duration Purpose : 3  
 TIME :06:42:21 07:14:11 31.8 (min) Lon E 17°38.07  
 LOG : 8870.97 8872.61 1.6 Region : 6000  
 FDEPTH: 139 138 Gear cond.: 0  
 BDEPTH: 139 138 Validity : 0  
 Towing dir: 0° Wire out : 360 m Speed : 3.1 km  
 Sorted : 958 Total catch: 1480.62 Catch/hour: 2790.11

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	719.52	5396	45.20	1503
Parapagurus dimorphus	459.69	41790	28.88	
Zeus capensis	115.92	234	7.28	1498
Merluccius capensis	65.96	26	4.14	1510
Caelorinchus simorhynchus	49.97	666	3.14	
Merluccius paradoxus	41.97	44	2.64	1509
Brama brama	25.98	16	1.63	1500
Lophius vomerinus	17.99	12	1.13	1499
Thyrsites atun	11.99	4	0.75	1502
Todaropsis eblanae	10.79	140	0.68	1507
Trachurus capensis	9.99	40	0.63	1505
Helicolenus dactylopterus	9.99	80	0.63	1504
Squalus mitsukurii	7.59	4	0.48	
Raja straeleni	7.40	2	0.46	
Anemones, pink	6.40	20	0.40	
G A S T R O P O D S	6.00	280	0.38	
Merluccius paradoxus	6.00	8	0.38	1508
Genypteris capensis	6.00	8	0.38	1501
Starfish	4.20	340	0.26	
Mursia cristimanus	2.40	200	0.15	
Exodromidia sp.	2.00	80	0.13	
Todaropsis eblanae	1.00	20	0.06	1506
Holohalaelurus regani	0.90	2	0.06	
Rossia enigmatica	0.88	20	0.06	
Paracallionymus costatus	0.56	120	0.04	
CYPRAEIDAE (Bulia)	0.46	80	0.03	
Sepia sp. New SA	0.20	40	0.01	
White sea cucumber	0.16	180	0.01	
Total	1591.90		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Yellow sponges	1537.69	0	55.11	
Etrumeus whiteheadi	386.31	6334	13.85	
Heart urchin	365.58	16617	13.10	
Merluccius capensis	124.37	1106	4.46	1529
Todaropsis eblanae	51.82	1210	1.86	1531
Todaropsis eblanae	51.82	1244	1.86	1532
Pterygossquilla armata capensis	41.46	1036	1.49	
Yellow sponges	41.46	0	1.49	0
Thyrsites atun	39.57	13	1.42	1526
Chelidonichthys capensis	34.54	104	1.24	1528
Merluccius capensis	24.50	34	0.88	1536
Brama brama	22.05	11	0.79	1527
Sepia australis	19.41	2427	0.70	
Exodromidia sp.	16.96	530	0.61	
G A S T R O P O D S	10.08	296	0.36	
Starfish	7.54	1884	0.27	
Paracallionymus costatus	4.48	641	0.16	
Callorhynchus capensis	3.39	2	0.12	
Raja straeleni	2.26	2	0.08	
Cynoglossus zanzibarensis	2.12	28	0.08	1530
Lophius vomerinus	1.66	21	0.06	1534
Merluccius paradoxus	0.54	62	0.02	1533
Snail	0.26	34	0.01	
Helicolenus dactylopterus	0.11	8	0.00	1535
Caelorinchus simorhynchus	0.08	8	0.00	
Lolliguncula mercatoris	0.03	13	0.00	
OCTOPODIDAE, juvenile	0.02	8	0.00	
Total	2790.11		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 155  
 DATE :08/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 32°38.35  
 start stop duration Purpose : 3  
 TIME :17:19:34 17:49:39 30.1 (min) Lon E 16°46.66  
 LOG : 8757.06 8758.59 1.5 Region : 6000  
 FDEPTH: 396 393 Gear cond.: 0  
 BDEPTH: 396 393 Validity : 0  
 Towing dir: 0° Wire out : 1020 m Speed : 3.1 km  
 Sorted : 206 Total catch: 1348.61 Catch/hour: 2689.16

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 158  
 DATE :09/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 31°55.02  
 start stop duration Purpose : 3  
 TIME :09:13:25 09:41:11 27.8 (min) Lon E 17°24.47  
 LOG : 8888.80 8890.41 1.6 Region : 6000  
 FDEPTH: 156 155 Gear cond.: 0  
 BDEPTH: 156 155 Validity : 0  
 Towing dir: 0° Wire out : 415 m Speed : 3.5 km  
 Sorted : 380 Total catch: 1796.64 Catch/hour: 3883.22

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	2029.91	9729	75.48	1516
Caelorinchus simorhynchus	217.75	1613	8.10	
Merluccius paradoxus	167.50	126	6.23	1515
Bassanago albescens	64.56	74	2.40	
Lophius vomerinus	51.84	34	1.93	1511
Helicolenus dactylopterus	27.52	110	1.02	1513
Starfish	26.92	0	1.00	
Genypteris capensis	25.92	22	0.95	1512
Parapagurus dimorphus	15.13	997	0.56	
Todaropsis eblanae	12.91	148	0.48	1517
Malacocephalus laevis	11.80	38	0.44	
G A S T R O P O D S	8.85	516	0.33	
Merluccius paradoxus	8.57	10	0.32	1514
Todaropsis eblanae	8.48	74	0.32	1518
Heart urchin	3.95	443	0.15	
Parapagurus pilosimanus	3.69	221	0.14	
Paracallionymus costatus	1.99	369	0.07	
Anemones, pink	1.55	148	0.06	
Mursia cristimanus	0.52	74	0.02	
Stereomastis sp.	0.19	38	0.01	
Total	2689.16		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Etrumeus whiteheadi	2710.37	41697	69.80	
Merluccius capensis	475.50	2116	12.25	1543
Chelidonichthys capensis	285.30	845	7.35	1537
Merluccius capensis	118.88	48	3.06	1539
Todaropsis eblanae	40.42	689	1.04	1546
JELLYFISH	40.42	0	1.04	
Callorhynchus capensis	36.74	15	0.95	
Todaropsis eblanae	35.66	666	0.92	1545
Paracallionymus costatus	34.71	2669	0.89	
Merluccius capensis	28.10	24	0.72	1538
Octopus magnificus	16.32	2	0.42	
Thyrsites atun	14.27	6	0.37	1540
Sardinops ocellatus	10.70	95	0.28	
Brama brama	9.73	4	0.25	1541
Lophius vomerinus	6.48	19	0.17	1542
Heart urchin	6.21	214	0.16	
Sepia australis	5.71	404	0.15	
Starfish white 5 arms	3.66	404	0.09	
Helicolenus dactylopterus	2.35	214	0.06	1544
Exodromidia sp.	1.00	95	0.03	
Merluccius paradoxus	0.29	24	0.01	1547
Goneplax angulata	0.24	24	0.01	
Lolliguncula sp.	0.17	71	0.00	
Total	3883.22		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 156  
 DATE :09/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 31°40.92  
 start stop duration Purpose : 3  
 TIME :04:15:13 04:45:15 30.0 (min) Lon E 17°50.06  
 LOG : 8854.27 8855.83 1.6 Region : 6000  
 FDEPTH: 122 122 Gear cond.: 0  
 BDEPTH: 122 122 Validity : 0  
 Towing dir: 0° Wire out : 350 m Speed : 3.1 km  
 Sorted : 131 Total catch: 1119.15 Catch/hour: 2235.33

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 159  
 DATE :09/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 32°0.65  
 start stop duration Purpose : 3  
 TIME :11:51:49 12:21:16 29.5 (min) Lon E 17°12.00  
 LOG : 8904.89 8906.38 1.5 Region : 6000  
 FDEPTH: 204 208 Gear cond.: 0  
 BDEPTH: 204 208 Validity : 0  
 Towing dir: 0° Wire out : 510 m Speed : 3.0 km  
 Sorted : 97 Total catch: 312.47 Catch/hour: 636.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius capensis	1484.02	21272	66.39	1521
Aequorea forskalea	262.15	0	11.73	
Pterygossquilla armata capensis	262.15	7943	11.73	
Chelidonichthys capensis	66.41	298	2.97	1522
Callorhynchus capensis	65.54	88	2.93	
Merluccius capensis	28.49	70	1.27	1524
Sufflogobius bibarbatus	27.26	1704	1.22	
PORIFERA (Sponges)	13.11	16	0.59	
Starfish	12.06	1722	0.54	
Merluccius capensis	3.15	192	0.14	1523
Todaropsis eblanae	2.97	176	0.13	1525
Genypteris capensis	2.70	6	0.12	1519
Raja straeleni	1.80	2	0.08	
G A S T R O P O D S	1.49	104	0.07	
Lophius vomerinus	1.00	2	0.04	
Ophichthus bennettai	0.50	2	0.02	
Exodromidia sp.	0.37	16	0.02	
Mursia cristimanus	0.18	16	0.01	
Maurolucius muelleri	0.00	0	0.00	
Total	2235.33		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Aequorea sp.	138.49	0	21.76	
Merluccius paradoxus	95.21	2338	14.96	1552
Paracallionymus costatus	53.15	4428	8.35	
Brama brama	52.95	31	8.32	1548
Holohalaelurus regani	42.76	363	6.72	
Heart urchin	30.81	642	4.84	
Trachurus capensis	25.97	122	4.08	1557
Etrumeus whiteheadi	24.24	293	3.81	
Todaropsis eblanae	20.43	399	3.21	1563
Thyrsites atun	16.90	6	2.66	1551
Merluccius capensis	16.29	31	2.56	1554
Raja straeleni	15.27	6	2.40	
Helicolenus dactylopterus	14.71	796	2.31	1561
Todaropsis eblanae	13.68	242	2.15	1562
Merluccius paradoxus	12.63	20	1.98	1556
Lophius vomerinus	11.61	26	1.82	1549
Merluccius paradoxus	7.96	570	1.25	1559
Callorhynchus capensis	6.82	2	1.07	
Sepia australis	5.71	485	0.90	
Zeus capensis	5.19	53	0.82	1558
Merluccius paradoxus	4.89	8	0.77	1555
Cynoglossus zanzibarensis	3.81	53	0.60	1560
Caelorinchus simorhynchus	3.29	122	0.52	
Lophius vomerinus	3.01	53	0.47	1564
Starfish	2.42	191	0.38	
Merluccius capensis	1.83	4	0.29	1553
Sardinops ocellatus	1.73	16	0.27	
Mursia cristimanus	1.11	53	0.17	
Lepidopus caudatus	0.76	16	0.12	
Genypteris capensis	0.71	2	0.11	1550
G A S T R O P O D S	0.55	35	0.09	
Rossia enigmatica	0.43	16	0.07	
Parapagurus dimorphus	0.38	53	0.06	
Sepia hieronis	0.31	16	0.05	
Exodromidia sp.	0.28	35	0.04	
CYPRAEIDAE (Bulia)	0.07	16	0.01	
Maurolucius muelleri	0.00	0	0.00	
Lampyctodes hectoris	0.00	0	0.00	
Total	636.40		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 160  
 DATE :09/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 32°6.82  
 start stop duration Purpose : 3  
 TIME :14:25:50 14:49:52 24.0 (min) Lon E 16°59.22  
 LOG : 8920.64 8921.87 1.2 Region : 6000  
 FDEPTH: 270 269 Gear cond.: 0  
 BDEPTH: 270 269 Validity : 0  
 Towing dir: 0° Wire out : 680 m Speed : 3.1 km  
 Sorted : 88 Total catch: 1720.05 Catch/hour: 4294.76

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 162  
 DATE :10/02/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 32°25.22  
 start stop duration Purpose : 3  
 TIME :04:19:20 04:49:37 30.3 (min) Lon E 16°23.25  
 LOG : 8975.04 8976.58 1.5 Region : 6000  
 FDEPTH: 648 638 Gear cond.: 0  
 BDEPTH: 648 638 Validity : 0  
 Towing dir: 0° Wire out : 1460 m Speed : 3.1 km  
 Sorted : 53 Total catch: 53.21 Catch/hour: 105.43

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	3033.71	36981	70.64	1572
Merluccius paradoxus	617.48	699	14.38	1571
Caelorinchus simorhynchus	209.36	5056	4.87	
Merluccius paradoxus	99.38	162	2.31	1570
Helicolenus dactylopterus	83.21	1825	1.94	1573
Lophius vomerinus	77.40	67	1.80	1567
Paracallionymus costatus	34.66	2310	0.81	
Merluccius capensis	27.47	12	0.64	1569
Holohalaelurus regani	25.77	107	0.60	
Heart urchin	20.22	0	0.47	
Parapagurus dimorphus	10.99	831	0.26	
Trachurus capensis	10.61	27	0.25	1574
Genypterus capensis	9.99	27	0.23	1566
Lampanyctodes hectoris	5.37	0	0.12	
Todaropsis eblanae	4.44	80	0.10	1575
Brama brama	3.62	2	0.08	1565
Malacocephalus laevis	2.75	27	0.06	
Starfish red	2.74	295	0.06	
Sepia hieronis	2.36	27	0.05	
Todarodes angolensis	2.25	2	0.05	1577
Merluccius paradoxus	2.00	377	0.05	1576
Mursia cristimanus	1.50	107	0.03	
Todarodes angolensis	1.50	2	0.03	1568
Exodromidia sp.	1.45	27	0.03	
G A S T R O P O D S	1.40	55	0.03	
Pterygosquilla armata capensis	1.34	107	0.03	
Sepia sp. New SA	0.80	2	0.02	
Rossia enigmatica	0.46	27	0.01	
Snail	0.21	27	0.00	
Notopogon macrosolen	0.19	27	0.00	
Lucigadus ori	0.14	27	0.00	
Total	4294.75		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	42.60	30	40.41	1593
Caelorinchus braueri	12.88	137	12.22	
Funchalia woodwardi	9.91	826	9.40	
Centrophorus squamosus	9.91	2	9.40	
Nezumia sp.	8.32	50	7.89	
Lophius vomerinus	4.56	2	4.32	
Merluccius paradoxus	4.36	4	4.13	1592
Lepidion capensis	2.16	14	2.05	
Trachyscorpia eschmeyerii	2.04	2	1.94	
Neocyttus rhomboidalis	1.62	8	1.54	
Sergia sp.	1.45	186	1.37	
Photichthys argenteus	1.33	36	1.26	
Etmopterus brachyurus	0.81	14	0.77	
Malacocephalus laevis	0.61	2	0.58	
Cryptopsaras couesii	0.47	6	0.45	
Lycoteuthis lorigera	0.44	10	0.42	
Synaphobranchus kaupii	0.40	2	0.38	
Hydrolagus africanus	0.28	2	0.26	
Notacanthus sexspinis	0.26	2	0.25	
Bathophilus sp.	0.19	4	0.18	
Diaphus sp.	0.15	75	0.14	
Chaceon maritae	0.15	2	0.14	
Diretmus argenteus	0.10	10	0.10	
Neoscopelus macrolepidotus	0.08	2	0.08	
Oreosoma atlanticum	0.06	10	0.06	
Symbolophorus boops	0.05	4	0.05	
Teuthowenia sp.	0.04	4	0.04	
PARALEPIDIDAE	0.04	2	0.04	
Scopelopsis multipunctatus	0.03	18	0.03	
Gymnoscopelus sp.	0.03	20	0.03	
Histioteuthis meleagroteuthis	0.02	2	0.02	
Spirula spirula	0.02	2	0.02	
Chauliodus minimus	0.02	2	0.02	
Myctophum sp.	0.01	4	0.01	
S H R I M P S	0.01	6	0.01	
Argyropelecus aculeatus	0.01	8	0.01	
MYCTOPHIDAE	0.00	2	0.00	
Stereomastis sp.	0.00	2	0.00	
Total	105.43		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 161  
 DATE :09/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 32°13.51  
 start stop duration Purpose : 3  
 TIME :16:57:40 17:27:26 29.8 (min) Lon E 16°45.90  
 LOG : 8937.98 8939.48 1.5 Region : 6000  
 FDEPTH: 321 318 Gear cond.: 0  
 BDEPTH: 321 318 Validity : 0  
 Towing dir: 0° Wire out : 835 m Speed : 3.0 km  
 Sorted : 209 Total catch: 772.68 Catch/hour: 1557.83

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 163  
 DATE :10/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 32°24.85  
 start stop duration Purpose : 3  
 TIME :06:18:54 06:49:39 30.8 (min) Lon E 16°25.75  
 LOG : 8984.38 8985.88 1.5 Region : 6000  
 FDEPTH: 548 539 Gear cond.: 0  
 BDEPTH: 548 539 Validity : 0  
 Towing dir: 0° Wire out : 1350 m Speed : 2.9 km  
 Sorted : 55 Total catch: 545.88 Catch/hour: 1064.78

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Zeus capensis	359.38	823	23.07	1584
Parapagurus dimorphus	324.60	32460	20.84	
Caelorinchus simorhynchus	220.26	3734	14.14	
Merluccius paradoxus	162.30	1472	10.42	1585
Brama brama	80.65	52	5.18	1578
Starfish	73.03	18258	4.69	
Anemones, pink	67.24	173	4.32	
Trachurus capensis	38.60	139	2.48	1587
Squalus mitsukurii	31.15	16	2.00	
Helicolenus dactylopterus	26.90	232	1.73	1586
Holohalaelurus regani	24.23	93	1.56	
Squalus mitsukurii	23.88	34	1.53	0
Merluccius capensis	22.38	10	1.44	1581
Genypterus capensis	13.31	20	0.85	1579
Lophius vomerinus	12.90	10	0.83	1580
Todaropsis eblanae	12.06	185	0.77	1589
Todarodes angolensis	11.01	12	0.71	1590
Merluccius paradoxus	8.87	8	0.57	1582
Malacocephalus laevis	8.35	69	0.54	
Todaropsis eblanae	7.42	117	0.48	1588
Lepidopus caudatus	6.45	8	0.41	
Raja leopardus	6.05	2	0.39	
Lophius vomerinus	4.84	12	0.31	1583
G A S T R O P O D S	4.64	232	0.30	
Mursia cristimanus	2.48	185	0.16	
Paracallionymus costatus	1.25	198	0.08	
Pterygosquilla armata capensis	1.21	185	0.08	
Rochinia sp.	0.93	34	0.06	
Sepia hieronis	0.58	12	0.04	
Exodromidia sp.	0.48	34	0.03	
Rossia enigmatica	0.28	34	0.02	
Sepia sp. New SA	0.09	12	0.01	
Merluccius paradoxus	0.06	24	0.00	1591
Total	1557.83		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 163  
 DATE :10/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 32°24.85  
 start stop duration Purpose : 3  
 TIME :06:18:54 06:49:39 30.8 (min) Lon E 16°25.75  
 LOG : 8984.38 8985.88 1.5 Region : 6000  
 FDEPTH: 548 539 Gear cond.: 0  
 BDEPTH: 548 539 Validity : 0  
 Towing dir: 0° Wire out : 1350 m Speed : 2.9 km  
 Sorted : 55 Total catch: 545.88 Catch/hour: 1064.78

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	723.67	700	67.96	1596
Merluccius paradoxus	113.13	156	10.63	1595
Chaceon sp.	70.22	925	6.59	
Starfish - rough	35.11	0	3.30	
Caelorinchus braueri	27.31	737	2.56	
Funchalia woodwardi	21.46	1951	2.02	
Bristle worms (straws)	16.78	3051	1.58	
Lophius vomerinus	14.92	8	1.40	1594
Helicolenus dactylopterus	6.83	41	0.64	1599
Raja leopardus	5.85	51	0.55	
ANTHOZOA (Sea anemones)	4.88	27	0.46	
Selachophidium guentheri	2.54	35	0.24	
Psychrolutes macrocephalus	2.40	27	0.23	
Myxine capensis	2.34	0	0.22	
Bathypolypus valdiviae	2.30	33	0.22	
Bassanago albescens	1.95	6	0.18	
G A S T R O P O D S	1.70	47	0.16	
Malacocephalus laevis	1.46	10	0.14	
Todarodes angolensis	1.38	2	0.13	1597
Merluccius paradoxus	1.27	6	0.12	1600
Holohalaelurus regani	1.25	0	0.12	
Starfish - fleshy	0.98	2	0.09	
Lycoteuthis lorigera	0.85	25	0.08	
Photichthys argenteus	0.66	23	0.06	
Caelorinchus matama	0.54	6	0.05	
Hoplostethus cadenati	0.45	4	0.04	
Ornithoteuthis antillarum	0.37	2	0.03	1598
Beryx splendens	0.37	2	0.03	
Sea cucumber	0.33	2	0.03	
Notacanthus sexspinis	0.33	4	0.03	
Rossia enigmatica	0.24	6	0.02	
Lucigadus ori	0.20	12	0.02	
Ophichthus bennettai	0.14	2	0.01	
Starfish red	0.13	2	0.01	
Diretmus argenteus	0.10	4	0.01	
Neoscopelus macrolepidotus	0.09	2	0.01	
CENTROLOPHIDAE, juvenile	0.09	2	0.01	
Electrona risso	0.04	6	0.00	
Gonostoma bathyphilum	0.04	2	0.00	
Symbolophorus boops	0.03	2	0.00	
PARALEPIDIDAE	0.03	2	0.00	
Mursia cristimanus	0.02	2	0.00	
Argyropelecus aculeatus	0.01	2	0.00	
Lophius vomerinus	0.01	2	0.00	1601
Stoloteuthis sp.	0.01	2	0.00	
Total	1064.78		100.00	



R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 164  
 DATE :10/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 32°21.15  
 start stop duration Purpose : 3  
 LOG : 08:01:42 08:30:37 28.9 (min) Lon E 16°28.83  
 TIME : 08:01:42 08:30:37 28.9 (min) Region : 6000  
 LOG : 8991.90 8993.31 1.4 Gear cond.: 0  
 FDEPTH: 448 444 Validity : 0  
 BDEPTH: 448 444 Speed : 2.9 km  
 Towing dir: 0° Wire out : 1130 m Catch/hour: 3139.33  
 Sorted : 253 Total catch: 1512.64

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP
Diastobranchus capensis	0.66	2	0.16
Neocyttus rhomboidalis	0.48	6	0.12
Diretmus argenteus	0.38	10	0.09
Anicstrocheirus iesueuri	0.34	2	0.08
Beryx splendens	0.34	2	0.08
Selachophidium guentheri	0.29	2	0.07
Chauliodus sloani	0.23	12	0.06
Benguelia 'marek'	0.20	2	0.05
Bathypolypus valdiviae	0.15	2	0.04
Histioteuthis meleagroteuthis	0.13	2	0.03
Bathophilus sp.	0.09	4	0.02
Schedophilus ovalis	0.09	2	0.02
MYCTOPHIDAE	0.08	22	0.02
Gymnoscopelus sp.	0.08	12	0.02
Diretmoides parini	0.06	2	0.01
Hoplostethus cadenati	0.05	10	0.01
Argyropelecus gigas	0.04	4	0.01
Myctophum sp.	0.04	2	0.01
Gonostoma elongatum	0.03	2	0.01
PARALEPIDIDAE	0.02	2	0.00
Malacosteus niger	0.02	2	0.00
Chaunax sp.	0.02	2	0.00
Electrona risso	0.02	2	0.00
Xenodermichthys copei	0.01	2	0.00
Argyropelecus aculeatus	0.01	4	0.00
Benguelia 'marek', juvenile	0.01	2	0.00
Stoloteuthis sp.	0.01	2	0.00
G A S T R O P O D S	0.01	2	0.00
Total	404.70		100.00

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 167  
 DATE :10/02/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 32°41.76  
 start stop duration Purpose : 3  
 LOG : 9033.20 9034.72 1.5 Region : 6000  
 TIME : 15:02:12 15:32:07 29.9 (min) Gear cond.: 0  
 LOG : 679 678 Validity : 0  
 FDEPTH: 679 678 Speed : 3.1 km  
 BDEPTH: 679 678 Wire out : 1700 m Catch/hour: 324.82  
 Towing dir: 0° Total catch: 161.98  
 Sorted : 162

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP
Merluccius paradoxus	182.49	96	56.18
Funhalia woodwardi	34.09	2434	10.50
Caelorinchus braueri	33.09	419	10.19
Nezumia sp.	22.06	136	6.79
Centrophorus squamosus	10.83	2	3.33
Histioteuthis miranda	8.02	6	2.47
Photichthys argenteus	7.02	180	2.16
Trachyscorpia eschmeyeri	6.02	8	1.85
Lophius vomerinus	4.41	2	1.36
Todarodes angolensis	2.91	2	0.90
Neocyttus rhomboidalis	2.61	16	0.80
Lepidion capensis	2.51	6	0.77
Merluccius paradoxus	1.60	2	0.49
Sergia sp.	0.90	361	0.28
Kuronezumia leonis	0.88	2	0.27
Etmopterus pusillus	0.71	2	0.22
Lycoteuthis lorigera	0.62	18	0.19
Gymnoscopelus sp.	0.42	68	0.13
Etmopterus granulosus	0.40	4	0.12
Notacanthus sexspinis	0.40	4	0.12
Diretmus argenteus	0.35	10	0.11
Lampanyctus sp.	0.32	12	0.10
Symbolophorus boops	0.23	18	0.07
MYCTOPHIDAE	0.19	66	0.06
Schedophilus ovalis	0.19	4	0.06
Nemichthys curvirostris	0.14	2	0.04
Histioteuthis meleagroteuthis	0.14	2	0.04
Psychrolutes macrocephalus	0.14	2	0.04
Ctenopteryx sicula	0.13	20	0.04
Histioteuthis macrohista	0.12	2	0.04
Chauliodus sloani	0.11	10	0.03
Bathophilus sp.	0.11	4	0.03
Cryptopsaras couesii	0.09	2	0.03
Coloconger cadenati	0.09	2	0.03
Diaphus effulgens	0.07	2	0.02
Malacosteus niger	0.05	2	0.02
Argyropelecus gigas	0.05	2	0.02
Howella shernborni	0.05	4	0.02
Gonostoma elongatum	0.04	4	0.01
PARALEPIDIDAE	0.04	2	0.01
Onychia sp.	0.03	2	0.01
Oneroides krefftii	0.03	2	0.01
Cranchia sp.	0.03	2	0.01
Nemichthys scolopaceus	0.02	2	0.01
Benguelia 'marek'	0.02	6	0.01
Pasiphaea sp.	0.02	6	0.00
Neoscopelus macrolepidotus	0.01	2	0.00
Stoloteuthis sp.	0.01	2	0.00
Lampadena sp.	0.01	2	0.00
Winteria telescopa	0.01	2	0.00
MELANOSTOMIATIDAE	0.00	2	0.00
Diaphus sp.	0.00	2	0.00
Scopelopsis multipunctatus	0.00	2	0.00
Total	324.82		100.00

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 165  
 DATE :10/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 32°17.02  
 start stop duration Purpose : 3  
 LOG : 8999.96 9001.38 1.4 Region : 6000  
 TIME : 09:36:47 10:06:15 29.5 (min) Lon E 16°33.27  
 LOG : 380 377 Gear cond.: 0  
 FDEPTH: 380 377 Validity : 0  
 BDEPTH: 380 377 Speed : 2.9 km  
 Towing dir: 0° Wire out : 950 m Catch/hour: 1372.16  
 Sorted : 157 Total catch: 673.96

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP
Merluccius paradoxus	570.07	2952	41.55
Caelorinchus simorhynchus	285.04	3001	20.77
Starfish	101.80	7830	7.42
Zeus capensis	83.47	167	6.08
Bassanago albescens	83.47	20	6.08
Merluccius paradoxus	65.15	61	4.75
Anemones, pink	42.96	224	3.13
Helicolenus dactylopterus	32.58	224	2.37
Parapagurus pilosimanus	18.53	4632	1.35
Gerypterus capensis	17.51	20	1.28
Merluccius capensis	17.10	6	1.25
Merluccius paradoxus	13.23	18	0.96
Malacocephalus laevis	10.59	20	0.77
Lepidopus caudatus	10.38	16	0.76
Todarodes angolensis	4.68	6	0.34
Todaropsis eblanae	2.57	20	0.19
Anemones, red	2.44	61	0.18
Todaropsis eblanae	2.26	20	0.16
Anemones, white	1.83	20	0.13
G A S T R O P O D S	1.75	143	0.13
Bathypolypus valdiviae	1.65	41	0.12
Parapagurus pilosimanus	0.94	61	0.07
Mursia cristimanus	0.67	81	0.05
Rossia enigmatica	0.53	20	0.04
Paracallionymus costatus	0.33	81	0.02
Lucigadus ori	0.29	61	0.02
Sepia sp. New SA	0.16	41	0.01
Rochinia sp.	0.10	41	0.01
Stereomastis sp.	0.08	20	0.01
Mauroliscus muelleri	0.00	0	0.00
Total	1372.16		100.00

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 166  
 DATE :10/02/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 32°42.32  
 start stop duration Purpose : 3  
 LOG : 9027.21 9028.78 1.6 Region : 6000  
 TIME : 13:15:16 13:45:10 29.9 (min) Lon E 16°33.90  
 LOG : 579 586 Gear cond.: 0  
 FDEPTH: 579 586 Validity : 0  
 BDEPTH: 579 586 Speed : 3.2 km  
 Towing dir: 0° Wire out : 1850 m Catch/hour: 404.70  
 Sorted : 202 Total catch: 201.68

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP
Caelorinchus braueri	116.39	1403	28.76
Alloctytus verrucosus	84.28	177	20.83
Centrophorus squamosus	48.16	6	11.90
Hoplostethus atlanticus	26.09	54	6.94
Merluccius paradoxus	28.09	14	6.45
Etmopterus pusillus	17.26	108	4.26
Nezumia sp.	17.06	305	4.21
Histioteuthis miranda	14.05	12	3.47
Lophius vomerinus	8.63	2	2.13
Apristurus saldanha	6.42	10	1.59
Chaceon sp.	4.01	36	0.99
Notacanthus sexspinis	4.01	30	0.99
Lepidion capensis	4.01	10	0.99
Etmopterus brachyurus	3.41	12	0.84
Etmopterus granulosus	2.81	6	0.69
Photichthys argenteus	2.61	44	0.64
Raja leopardus	2.41	4	0.60
Merluccius paradoxus	1.71	2	0.42
Funhalia woodwardi	1.69	211	0.42
Alloctytus verrucosus	1.43	16	0.35
Coryphaenoides macrolophus	1.35	2	0.33
Schedophilus huttoni	1.04	2	0.26
Sergia sp.	1.00	142	0.25
Todarodes angolensis	1.00	2	0.25
Psychrolutes macrocephalus	0.99	2	0.24
Odontomacrus murrayi	0.90	2	0.22

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 168  
 DATE :10/02/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 32°41.06  
 start stop duration Purpose : 3  
 LOG : 9038.42 9040.13 1.7 Region : 6000  
 TIME : 16:37:21 17:08:26 31.1 (min) Gear cond.: 0  
 LOG : 579 586 Validity : 0  
 FDEPTH: 579 586 Speed : 3.3 km  
 BDEPTH: 579 586 Wire out : 1450 m Catch/hour: 633.23  
 Towing dir: 0° Total catch: 328.01  
 Sorted : 328

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP
Merluccius paradoxus	471.04	151	74.39
Merluccius paradoxus	121.62	432	19.21
Caelorinchus braueri	21.24	517	3.35
Etmopterus brachyurus	6.37	172	1.01
Raja leopardus	2.37	4	0.37
Selachophidium guentheri	2.12	25	0.34
Caelorinchus matama	1.98	8	0.31
Photichthys argenteus	1.95	44	0.31
Hydrologus sp.	1.43	2	0.23
Lycoteuthis lorigera	0.82	23	0.13
Nezumia sp.	0.73	41	0.12
Malacocephalus laevis	0.57	4	0.09
Beryx splendens	0.36	2	0.06
Chaceon sp.	0.29	8	0.05
Symbolophorus boops	0.10	8	0.02
Schedophilus ovalis	0.08	2	0.01
Diaphus sp.	0.05	17	0.01
Lucigadus ori	0.03	2	0.00
Gonostoma bathyphilum	0.03	2	0.00
Stoloteuthis sp.	0.02	4	0.00
Gymnoscopelus sp.	0.01	2	0.00
Electrona risso	0.01	2	0.00
Total	633.23		100.00

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 169  
 DATE :11/02/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 32°40.71  
 start stop duration Purpose : 3  
 TIME :04:17:19 04:47:50 30.5 (min) Lon E 16°38.97  
 LOG : 9077.64 9079.37 1.7 Region : 6000  
 FDEPTH: 475 475 Gear cond.: 0  
 BDEPTH: 475 475 Validity : 0  
 Towing dir: 0° Wire out : 1240 m Speed : 3.4 km  
 Sorted : 647 Total catch: 647.11 Catch/hour: 1272.16

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	438.40	558	34.46	1639
Merluccius paradoxus	336.17	867	26.43	1641
Merluccius paradoxus	322.41	826	25.34	1640
Merluccius paradoxus	157.27	269	12.36	1638
Lophius vomerinus	6.49	6	0.51	1635
Helicolenus dactylopterus	2.87	16	0.23	1636
Todarodes angolensis	2.50	2	0.20	1637
Raja dissimilis	2.16	2	0.17	
Caelorinchus simorhynchus	1.14	26	0.09	
Lycoteuthis lorigera	0.85	18	0.07	
Chaceon sp.	0.59	8	0.05	
Raja leopardus	0.59	10	0.05	
Etmopterus brachyurus	0.22	10	0.02	
Myxine capensis	0.20	2	0.02	
REGALECIDAE	0.13	2	0.01	
Rossia enigmatica	0.05	2	0.00	
Lucigadus ori	0.03	2	0.00	
Hoplostethus mediterraneus	0.03	2	0.00	
Paracallionymus costatus	0.02	2	0.00	
Chiroteuthis joubini	0.02	2	0.00	
Diretmus argenteus	0.02	6	0.00	
Stereomastis sp.	0.01	2	0.00	
Total	1272.16		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 170  
 DATE :11/02/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 32°49.27  
 start stop duration Purpose : 3  
 TIME :06:28:05 06:58:03 30.0 (min) Lon E 16°39.09  
 LOG : 9088.39 9090.02 1.6 Region : 6000  
 FDEPTH: 757 743 Gear cond.: 0  
 BDEPTH: 757 743 Validity : 0  
 Towing dir: 0° Wire out : 1720 m Speed : 3.3 km  
 Sorted : 325 Total catch: 324.76 Catch/hour: 650.39

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	226.30	178	34.79	1646
Hoplostethus atlanticus	126.17	401	19.40	1642
Neocyttus rhomboidalis	98.13	483	15.09	1643
Merluccius paradoxus	50.07	46	7.70	1645
Caelorinchus braueri	44.06	465	6.77	
Centrophorus squamosus, female	32.04	2	4.93	
Nezumia sp.	18.02	194	2.77	
Caelorinchus matamua	8.01	22	1.23	
Notacanthus sexspinis	6.01	50	0.92	
Centroscyllium fabricii	6.01	4	0.92	
Epigonus robustus	4.61	52	0.71	
Apristurus saldanha	3.60	16	0.55	
Selachophidium guentheri	3.52	42	0.54	
Photichthys argenteus	3.26	96	0.50	
Histioteuthis miranda	3.20	2	0.49	
Trachyscorpia eschmayeri	3.00	4	0.46	
Todarodes angolensis	2.80	2	0.43	1644
Neoscopelus macrolepidotus	2.58	20	0.40	
Etmopterus brachyurus	1.64	6	0.25	
Synaphobranchus kaupii	1.46	10	0.22	
Chaceon sp.	1.32	14	0.20	
Cruriraja parcomaculata	1.16	2	0.18	
Sergia sp.	1.10	314	0.17	
Etmopterus granulosus	0.38	2	0.06	
Lepidion capensis	0.38	2	0.06	
Schedophilus sp.	0.32	4	0.05	
Histioteuthis macrohista	0.21	2	0.03	
Simenchelys parasiticus	0.20	2	0.03	
Chauliodus sloani	0.15	8	0.02	
Funchalia woodwardi	0.13	10	0.02	
Symbolophorus boops	0.12	10	0.02	
Melanonus zugmayeri	0.10	2	0.01	
Plesionika martia	0.07	12	0.01	
Malacosteus niger	0.05	2	0.01	
Gonostoma sp.	0.04	4	0.01	
Myctophum sp.	0.03	2	0.01	
Diaphus sp.	0.03	4	0.00	
Odontaspis murrayi, juvenile	0.02	2	0.00	
Argyroleucus gigas	0.02	2	0.00	
Lycoteuthis lorigera	0.01	2	0.00	
Stoloteuthis sp.	0.01	2	0.00	
XXXXXXX	0.01	2	0.00	
Nemichthys curvirostris	0.00	2	0.00	
Total	650.39		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 171  
 DATE :11/02/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 32°49.62  
 start stop duration Purpose : 3  
 TIME :08:18:18 08:48:33 30.3 (min) Lon E 16°41.74  
 LOG : 9094.84 9096.36 1.5 Region : 6000  
 FDEPTH: 621 624 Gear cond.: 0  
 BDEPTH: 621 624 Validity : 0  
 Towing dir: 0° Wire out : 1450 m Speed : 3.0 km  
 Sorted : 191 Total catch: 191.34 Catch/hour: 379.52

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	184.46	157	48.60	1648
Merluccius paradoxus	128.93	147	33.97	1649
Caelorinchus braueri	18.84	270	4.96	
Raja leopardus	9.12	2	2.40	
Nezumia sp.	7.34	123	1.93	
Caelorinchus matamua	6.66	18	1.76	
Etmopterus brachyurus	6.07	129	1.60	
Todarodes angolensis	4.03	8	1.06	1651
Lepidion capensis	3.03	24	0.80	
Lophius vomerinus	2.18	2	0.57	1647
Neoscopelus macrolepidotus	2.10	16	0.55	
Photichthys argenteus	1.21	42	0.32	
Trachyscorpia eschmayeri	1.19	2	0.31	
Helicolenus dactylopterus	1.17	12	0.31	1650
Psychrolutes macrocephalus	0.80	4	0.21	
Selachophidium guentheri	0.63	10	0.17	
Notacanthus sexspinis	0.58	10	0.15	
Beryx splendens	0.35	2	0.09	
Lycoteuthis lorigera	0.16	14	0.04	
Benthodesmus sp.	0.11	2	0.03	
Merluccius paradoxus	0.07	2	0.02	1652
Malacocephalus laevis	0.07	2	0.02	
Stoloteuthis sp.	0.06	20	0.02	
Diretmus argenteus	0.06	4	0.02	
Diaphus sp.	0.04	2	0.01	
Neoscopelus macrolepidotus	0.03	6	0.01	0
Protomyctophum sp.	0.03	4	0.01	
Symbolophorus boops	0.02	2	0.01	

Diaphus sp.	0.02	6	0.01	0
ARGENTINIDAE	0.02	2	0.01	
Electrona risso	0.02	2	0.00	
Lampanyctodes hectoris	0.02	10	0.00	0
Nemichthys curvirostris	0.02	2	0.00	
Gymnoscopelus sp.	0.01	2	0.00	
Cranchia scabra	0.01	2	0.00	
Paraliparis sp.	0.01	18	0.00	
Lampanyctodes sp.	0.01	2	0.00	
Argyroleucus gigas	0.01	2	0.00	
Alloctytus verrucosus, juvenile	0.00	2	0.00	
Lampanyctodes hectoris	0.00	2	0.00	
Phyllosoma	0.00	2	0.00	
Total	379.52		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 172  
 DATE :11/02/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 32°48.55  
 start stop duration Purpose : 3  
 TIME :09:52:05 10:22:20 30.3 (min) Lon E 16°43.89  
 LOG : 9100.42 9102.00 1.6 Region : 6000  
 FDEPTH: 516 519 Gear cond.: 0  
 BDEPTH: 516 519 Validity : 0  
 Towing dir: 0° Wire out : 1200 m Speed : 3.1 km  
 Sorted : 195 Total catch: 1002.32 Catch/hour: 1988.08

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	1348.76	1248	67.84	1655
Merluccius paradoxus	595.04	797	29.93	1654
Lophius vomerinus	27.77	18	1.40	1653
Helicolenus dactylopterus	9.92	63	0.50	1658
Brama brama	3.27	2	0.16	1657
Todarodes angolensis	2.58	2	0.13	1656
Raja leopardus	0.74	12	0.04	
Total	1988.08		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 173  
 DATE :11/02/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 32°48.13  
 start stop duration Purpose : 3  
 TIME :11:36:42 12:06:44 30.0 (min) Lon E 16°47.89  
 LOG : 9106.93 9108.53 1.6 Region : 6000  
 FDEPTH: 443 442 Gear cond.: 0  
 BDEPTH: 443 442 Validity : 0  
 Towing dir: 0° Wire out : 1100 m Speed : 3.2 km  
 Sorted : 169 Total catch: 1177.39 Catch/hour: 2353.21

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	1952.30	5502	82.96	1661
Merluccius paradoxus	146.50	44	6.23	1662
Helicolenus dactylopterus	118.32	606	5.03	1663
Bassanago albescens	59.16	60	2.51	
Genypterus capensis	19.99	8	0.85	1659
Malacocephalus laevis	19.67	2	0.84	
Caelorinchus simorhynchus	16.56	326	0.70	
Todarodes angolensis	7.00	14	0.30	1664
Brama brama	3.70	2	0.16	1660
Hoplostethus mediterraneus	2.81	14	0.12	
Lampanyctodes hectoris	2.56	1113	0.11	
Malacosteus niger	2.37	14	0.10	
Lycoteuthis lorigera	1.33	60	0.06	
Stereomastis sp.	0.44	74	0.02	
Lucigadus ori	0.13	14	0.01	
Etmopterus brachyurus	0.13	14	0.01	
Electrona risso	0.10	14	0.00	
Parapagurus dimorphus	0.07	14	0.00	
Stoloteuthis sp.	0.03	14	0.00	
Funchalia woodwardi	0.03	14	0.00	
Total	2353.21		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 174  
 DATE :11/02/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 32°48.19  
 start stop duration Purpose : 3  
 TIME :14:21:49 14:51:26 29.6 (min) Lon E 16°59.14  
 LOG : 9121.88 9123.45 1.6 Region : 6000  
 FDEPTH: 349 346 Gear cond.: 0  
 BDEPTH: 349 346 Validity : 0  
 Towing dir: 0° Wire out : 895 m Speed : 3.2 km  
 Sorted : 339 Total catch: 864.24 Catch/hour: 1750.66

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	1039.16	6928	59.36	1674
Zeus capensis	178.26	292	10.18	1669
Merluccius paradoxus	135.72	120	7.75	1668
Merluccius capensis	105.33	45	6.02	1666
Helicolenus dactylopterus	91.15	365	5.21	1675
Brama brama	79.00	55	4.51	1670
Caelorinchus simorhynchus	40.84	658	2.33	
Merluccius paradoxus	12.15	10	0.69	1667
Lepidopus caudatus	10.33	10	0.59	
Genypterus capensis	9.32	12	0.53	1672
Lophius vomerinus	9.12	6	0.52	1671
Todaropsis eblanae	8.39	91	0.48	1676
Todaropsis eblanae	8.02	91	0.46	1677
Merluccius capensis	7.29	4	0.42	1665
Malacocephalus laevis	6.20	73	0.35	
Thyrsites atun	6.08	2	0.35	1673
Lampanyctodes hectoris	2.55	1063	0.15	
Rossia enigmatica	0.82	18	0.05	
Maurollicus muelleri	0.60	383	0.03	
Starfish	0.22	18	0.01	
G A S T R O P O D S	0.07	18	0.00	
Sepia sp. New SA	0.04	18	0.00	
Total	1750.67		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 175  
 DATE :12/02/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 34°17.62  
 start stop duration Purpose : 3  
 TIME :04:18:39 04:48:13 29.6 (min) Lon E 17°43.11  
 LOG : 9230.63 9232.08 1.5 Region : 6000  
 FDEPTH: 404 401 Gear cond.: 0  
 BDEPTH: 404 401 Validity : 0  
 Towing dir: 0° Wire out : 1020 m Speed : 2.9 km  
 Sorted : 141 Total catch: 839.53 Catch/hour: 1703.47

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	1144.40	4797	67.18	1679
Helicolenus dactylopterus	340.89	3190	20.01	1680
Merluccius paradoxus	73.05	67	4.29	1682
Merluccius paradoxus	62.90	97	3.69	1681
Caelorinchus simorhynchus	53.57	974	3.14	
Genypterus capensis	20.29	26	1.19	1678
Beryx splendens	4.21	24	0.25	
Malacocephalus laevis	1.97	24	0.12	
Parapagurus pilosimanus	1.41	97	0.08	
Rochinia sp.	0.29	24	0.02	
Lucigadus ori	0.27	24	0.02	
Starfish - rough	0.22	24	0.01	
Total	1703.47		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 176  
 DATE :12/02/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 34°6.73 Lon E 17°50.02  
 start stop duration Purpose : 3  
 TIME :06:21:45 06:47:39 25.9 (min) Region : 6000  
 LOG : 9244.45 9245.70 1.3 Gear cond.: 0  
 FDEPTH: 269 274 Validity : 0  
 BDEPTH: 269 274 Speed : 2.9 km  
 Towing dir: 0° Wire out : 670 m Catch/hour: 610.35  
 Sorted : 157 Total catch: 263.47

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 179  
 DATE :14/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 31°32.22 Lon E 17°12.81  
 start stop duration Purpose : 3  
 TIME :07:25:04 07:55:10 30.1 (min) Region : 6000  
 LOG : 9456.70 9458.21 1.5 Gear cond.: 0  
 FDEPTH: 237 227 Validity : 0  
 BDEPTH: 237 227 Speed : 3.0 km  
 Towing dir: 0° Wire out : 570 m Catch/hour: 1042.53  
 Sorted : 66 Total catch: 523.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	192.86	1177	31.60	1688
Lepidopus caudatus	101.93	134	16.70	
Loligo reynaudi	73.49	283	12.04	1684
Caelorinchus simorhynchus	52.12	755	8.54	
Todaropsis eblanae	36.90	500	6.05	1693
Todaropsis eblanae	34.04	454	5.58	1692
Merluccius paradoxus	32.43	23	5.31	1687
Loligo reynaudi	28.67	158	4.70	1694
Merluccius capensis	20.85	9	3.42	1685
Trachurus capensis	10.63	42	1.74	1690
Helicolenus dactylopterus	10.58	162	1.73	1689
Genypterus capensis	6.25	7	1.02	1683
Merluccius paradoxus	5.33	9	0.87	1686
Zeus capensis	1.71	5	0.28	1691
Paracallionymus costatus	1.20	167	0.20	
Parapagurus dimorphus	0.91	120	0.15	
Stromateus fiatola	0.42	5	0.07	
Starfish - rough	0.02	5	0.00	
Total	610.35		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	577.28	10043	55.37	1742
Paracallionymus costatus	106.84	8904	10.25	
Holohalaelurus regani	71.76	319	6.88	
Heart urchin	66.98	957	6.42	
Parapagurus dimorphus	49.44	3530	4.74	
Caelorinchus simorhynchus	41.78	971	4.01	
Brama brama	20.33	12	1.95	1732
Lophius vomerinus	17.54	26	1.68	1733
Etrumeus whiteheadi	16.90	159	1.62	
Merluccius capensis	11.76	10	1.13	1736
Helicolenus dactylopterus	9.89	829	0.95	1739
Thyrssites atun	8.37	4	0.80	1734
Todaropsis eblanae	7.34	191	0.70	1738
Merluccius paradoxus	6.70	510	0.64	1737
Mursia cristimanus	6.06	319	0.58	
Callorhynchus capensis	4.98	2	0.48	
Zeus capensis	4.15	32	0.40	1741
Raja straeleni	2.99	4	0.29	
Starfish	2.65	670	0.25	
Merluccius capensis	2.59	2	0.25	1735
Lepidopus caudatus	2.36	32	0.23	
Cynoglossus zanzibarensis	1.15	32	0.11	1740
Raja wallacei	1.00	2	0.10	
Chelidonichthys capensis	0.90	2	0.09	1731
Sepia australis	0.51	32	0.05	
Genypterus capensis	0.30	2	0.03	1730
Total	1042.53		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 177  
 DATE :12/02/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 33°59.92 Lon E 18°0.37  
 start stop duration Purpose : 3  
 TIME :08:11:00 08:41:34 30.6 (min) Region : 6000  
 LOG : 9257.56 9259.15 1.6 Gear cond.: 0  
 FDEPTH: 192 190 Validity : 0  
 BDEPTH: 192 190 Speed : 3.1 km  
 Towing dir: 0° Wire out : 580 m Catch/hour: 276.96  
 Sorted : 141 Total catch: 141.11

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 180  
 DATE :14/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 31°38.82 Lon E 17°3.56  
 start stop duration Purpose : 3  
 TIME :09:32:32 09:56:17 23.8 (min) Region : 6000  
 LOG : 9468.91 9470.13 1.2 Gear cond.: 0  
 FDEPTH: 258 259 Validity : 0  
 BDEPTH: 258 259 Speed : 3.1 km  
 Towing dir: 0° Wire out : 680 m Catch/hour: 1497.24  
 Sorted : 110 Total catch: 592.66

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Chelidonichthys capensis	60.65	132	21.90	1699
Merluccius capensis	57.90	73	20.91	1704
Trachurus capensis	29.05	155	10.49	1701
Merluccius paradoxus	28.07	145	10.13	1697
Merluccius capensis	15.70	20	5.67	1705
Brama brama	15.70	12	5.67	1695
Etrumeus whiteheadi	13.44	165	4.85	
Helicolenus dactylopterus	11.48	552	4.15	1700
Todaropsis eblanae	8.87	149	3.20	1708
Todaropsis eblanae	8.44	151	3.05	1709
Callorhynchus capensis	6.67	4	2.41	
Chelidonichthys queketti	4.51	24	1.63	1703
Loligo reynaudi	4.32	16	1.56	1707
Zeus capensis	3.34	29	1.20	1702
Lophius vomerinus	3.34	4	1.20	1696
Loligo reynaudi	2.04	12	0.74	1706
Raja straeleni	1.39	2	0.50	
Cynoglossus zanzibarensis	0.61	6	0.22	1710
Merluccius paradoxus	0.47	41	0.17	1698
Holohalaelurus regani	0.29	4	0.11	
Congiopeodus spinifer	0.26	2	0.09	
Paracallionymus costatus	0.21	27	0.07	
Lepidopus caudatus	0.17	4	0.06	
Heart urchin	0.02	2	0.01	
Champsodon capensis	0.02	2	0.01	
Total	276.96		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	773.05	8696	51.63	1748
Parapagurus dimorphus	185.53	12369	12.39	
Brama brama	111.16	61	7.42	1743
Malacocephalus laevis	107.37	2334	7.17	
Holohalaelurus regani	106.51	387	7.11	
Lophius vomerinus	55.58	51	3.71	1745
Mursia cristimanus	25.34	258	1.69	
Paracallionymus costatus	23.62	1688	1.58	
Todaropsis eblanae	22.76	258	1.52	1750
Heart urchin	19.76	644	1.32	
Raja wallacei	13.14	3	0.88	
Helicolenus dactylopterus	10.65	301	0.71	1751
Todaropsis eblanae	8.59	86	0.57	1749
Starfish	6.40	1288	0.43	
Thyrssites atun	6.19	3	0.41	1747
Raja straeleni	5.56	3	0.37	
Genypterus capensis	5.05	18	0.34	1744
Merluccius capensis	4.55	5	0.30	1746
Mursia cristimanus	2.49	129	0.17	0
Rossia enigmatica	1.89	129	0.13	0
G A S T R O P O D S	1.12	43	0.07	
Todaropsis eblanae	0.77	86	0.05	1752
Lolligoncula mercatoris	0.17	86	0.01	
Total	1497.24		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 178  
 DATE :14/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 31°30.30 Lon E 17°25.44  
 start stop duration Purpose : 3  
 TIME :04:59:25 05:29:20 29.9 (min) Region : 6000  
 LOG : 9442.24 9443.78 1.6 Gear cond.: 0  
 FDEPTH: 169 179 Validity : 0  
 BDEPTH: 169 179 Speed : 3.1 km  
 Towing dir: 0° Wire out : 440 m Catch/hour: 1532.77  
 Sorted : 469 Total catch: 764.60

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 181  
 DATE :14/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 31°45.06 Lon E 16°55.83  
 start stop duration Purpose : 3  
 TIME :11:33:25 12:03:21 29.9 (min) Region : 6000  
 LOG : 9480.00 9481.46 1.5 Gear cond.: 0  
 FDEPTH: 288 283 Validity : 0  
 BDEPTH: 288 283 Speed : 2.9 km  
 Towing dir: 0° Wire out : 720 m Catch/hour: 1999.70  
 Sorted : 197 Total catch: 997.85

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
SOFT SPONGES	673.57	0	43.94	
Merluccius paradoxus	353.61	5761	23.07	1722
Lampanyctodes hectoris	105.85	17641	6.91	
Etrumeus whiteheadi	70.56	1008	4.60	
Merluccius capensis	52.38	639	3.42	1721
Thyrssites atun	41.10	18	2.68	1716
Heart urchin	38.59	690	2.52	
Brama brama	34.08	20	2.22	1714
JELLYFISH	25.36	0	1.65	
Merluccius capensis	20.45	40	1.33	1719
Merluccius capensis	14.43	38	0.94	1718
Sepia australis	12.79	427	0.83	
Callorhynchus capensis	12.43	6	0.81	
Paracallionymus costatus	12.35	1544	0.81	
Helicolenus dactylopterus	11.14	485	0.73	1726
Pterygosquilla armata capensis	9.04	301	0.59	
Merluccius paradoxus	8.72	1137	0.57	1725
Todaropsis eblanae	8.60	397	0.56	1724
Lophius vomerinus	7.02	14	0.46	1711
Holohalaelurus regani	6.29	78	0.41	
Starfish	3.09	441	0.20	
Todarodes angolensis	2.29	2	0.15	1723
Chelidonichthys capensis	1.60	2	0.10	1713
Caelorinchus simorhynchus	1.30	78	0.08	
Lepidopus caudatus	1.29	58	0.08	
Merluccius paradoxus	1.10	2	0.07	1720
Zeus capensis	0.70	12	0.05	1727
Cynoglossus zanzibarensis	0.50	34	0.03	1729
Jasusalandii	0.47	4	0.03	1712
Mursia cristimanus	0.46	34	0.03	
G A S T R O P O D S	0.44	22	0.03	
Sepia hieronis	0.42	12	0.03	
Lophius vomerinus	0.24	12	0.02	1728
Exodromidia sp.	0.23	22	0.02	
Jasusalandii	0.21	2	0.01	1715
Physiculus capensis	0.07	12	0.00	
Maurolicus muelleri	0.00	0	0.00	
Total	1532.77		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	1612.73	14754	80.65	1762
Parapagurus dimorphus	75.55	6868	3.78	
Caelorinchus simorhynchus	69.74	982	3.49	
Merluccius paradoxus	34.07	44	1.70	1761
Holohalaelurus regani	27.61	72	1.38	
Genypterus capensis	26.05	38	1.30	1754
Merluccius capensis	26.05	10	1.30	1759
Brama brama	21.04	12	1.05	1756
Helicolenus dactylopterus	20.34	232	1.02	1764
Malacocephalus laevis	13.37	160	0.67	
Lophius vomerinus	12.02	8	0.60	1753
Zeus capensis	10.38	14	0.52	1765
Starfish	9.44	858	0.47	
Trachurus capensis	8.56	28	0.43	1763
Todarodes angolensis	8.02	8	0.40	1755
Thyrssites atun	4.81	2	0.24	1757
Lampanyctodes hectoris	4.36	0	0.22	
Merluccius paradoxus	3.01	6	0.15	1760
Merluccius capensis	2.00	2	0.10	1758
Merluccius paradoxus	1.80	174	0.09	1769
Sepia hieronis	1.48	28	0.07	
Todaropsis eblanae	1.40	28	0.07	1767
Todaropsis eblanae	1.26	28	0.06	1768
Rossia enigmatica	1.21	28	0.06	
G A S T R O P O D S	1.05	44	0.04	
Mursia cristimanus	0.86	72	0.04	
Todaropsis eblanae	0.44	88	0.02	1766
Paracallionymus costatus	0.42	58	0.02	
Rossia sp.	0.28	14	0.01	
Xenolepidichthys dagleishi	0.14	14	0.01	
CYPRAEIDAE (Bulia)	0.10	14	0.01	
Lolligoncula mercatoris	0.06	28	0.00	
Exodromidia sp.	0.06	14	0.00	
Maurolicus muelleri	0.00	0	0.00	
Total	1999.70		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 182  
 DATE :14/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 31°55.83  
 start stop duration Purpose : 3  
 TIME :14:36:11 15:03:29 27.3 (min) Lon E 16°37.54  
 LOG : 9501.83 9503.05 1.2 Region : 6000  
 FDEPTH: 340 340 Gear cond.: 0  
 BDEPTH: 340 340 Validity : 0  
 Towing dir: 0° Wire out : 865 m Speed : 2.7 km  
 Sorted : 107 Total catch: 364.56 Catch/hour: 801.82

Lucigadus ori 0.39 32 0.13  
 Rossia enigmatica 0.38 12 0.13  
 Lycoteuthis lorigera 0.29 10 0.10  
 Symblophorus boops 0.20 36 0.07  
 Tripterophycis gilchristi 0.14 6 0.05  
 Rochinia sp. 0.13 16 0.04  
 Shark eggs 0.11 8 0.04  
 Schedophilus sp. 0.09 2 0.03  
 Scopelosaurus sp. 0.05 2 0.02  
 Epigonus sp. 0.04 2 0.01  
 Stereomastis sp. 0.04 4 0.01  
 Physiculus capensis 0.03 2 0.01  
 Sepia typica 0.01 2 0.00  
 Oreosoma atlanticum, juvenile 0.00 2 0.00

Total 298.34 100.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	459.57	3563	57.32	1777
Caelorinchus simorhynchus	92.38	994	11.52	
Dead coral	57.73	0	7.20	
Zeus capensis	41.79	88	5.21	1772
Lophius vomerinus	24.19	11	3.02	1771
Starfish	24.13	805	3.01	
Merluccius paradoxus	18.26	18	2.28	1773
Helicolenus dactylopterus	16.28	185	2.03	1776
Malacocephalus laevis	13.28	46	1.66	
Squalus mitsukurii, male	8.03	4	1.00	
Parapagurus pilosimanus	7.74	405	0.96	
Genypterus capensis	6.60	9	0.82	1770
Epigonus sp.	5.54	46	0.69	
Mursia cristimanus	4.87	440	0.61	
Todaropsis eblanae	4.73	81	0.59	1778
Exodromidia sp.	3.67	231	0.46	
Molluscs	1.93	103	0.24	
URCHINS	1.68	11	0.21	
Cruriraja parcomaculata	1.52	4	0.19	
Todarodes angolensis	1.23	2	0.15	1774
Paracallionymus costatus	1.06	220	0.13	
Lampanyctodes hectoris	1.01	288	0.13	
Sepia hieronis	0.69	11	0.09	
Rossia enigmatica	0.68	35	0.09	
Rochinia sp.	0.57	1617	0.07	
Emmelichthys nitidus	0.55	2	0.07	
Physiculus capensis	0.39	35	0.05	
Chelidonichthys queketti	0.37	2	0.05	1775
Merluccius paradoxus	0.32	81	0.04	
Lucigadus ori	0.29	114	0.04	
Todaropsis eblanae	0.22	11	0.03	1779
Pterygosquilla armata capensis	0.21	46	0.03	
Lophius vomerinus	0.15	11	0.02	1780
C E P H A L O P O D A	0.13	11	0.02	
ISOPODS	0.02	11	0.00	
Maurollicus muelleri	0.00	0	0.00	
Total	801.82		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 185  
 DATE :15/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 32°3.63  
 start stop duration Purpose : 3  
 TIME :05:56:10 06:18:12 22.0 (min) Lon E 16°17.93  
 LOG : 9554.04 9555.21 1.2 Region : 6000  
 FDEPTH: 463 470 Gear cond.: 0  
 BDEPTH: 463 470 Validity : 0  
 Towing dir: 0° Wire out : 1160 m Speed : 3.2 km  
 Sorted : 396 Total catch: 1656.04 Catch/hour: 4508.26

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	3620.69	9408	80.31	1802
Merluccius paradoxus	566.24	381	12.56	1804
Genypterus capensis	62.61	33	1.39	1803
Merluccius capensis	40.83	14	0.91	1808
Caelorinchus simorhynchus	38.96	672	0.86	
Lepidopus caudatus	38.11	41	0.85	
Merluccius paradoxus	21.78	25	0.48	1807
Chaceon sp.	20.69	242	0.46	
Brama brama	14.02	8	0.31	1800
Starfish	13.79	2758	0.31	
Lophius vomerinus	13.34	8	0.30	1801
Octopus magnificus	12.52	3	0.28	
Bassanago albescens	8.62	35	0.19	0
Malacocephalus laevis	7.52	35	0.17	
Todarodes angolensis	6.26	8	0.14	1806
Helicolenus dactylopterus	5.54	68	0.12	1809
Anemones, pink	5.17	35	0.11	
Todarodes angolensis	3.81	5	0.08	1805
Bassanago albescens	3.54	3	0.08	
Munidopsis sp.	2.52	275	0.06	
G A S T R O P O D S	1.28	35	0.03	
Lucigadus ori	0.35	35	0.01	
Lampanyctodes hectoris	0.07	35	0.00	
Total	4508.26		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 183  
 DATE :14/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 31°59.43  
 start stop duration Purpose : 3  
 TIME :17:11:03 17:41:16 30.2 (min) Lon E 16°25.74  
 LOG : 9517.54 9519.16 1.6 Region : 6000  
 FDEPTH: 396 399 Gear cond.: 0  
 BDEPTH: 396 399 Validity : 0  
 Towing dir: 0° Wire out : 1030 m Speed : 3.2 km  
 Sorted : 195 Total catch: 532.04 Catch/hour: 1057.03

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	451.99	2736	42.76	1788
Caelorinchus simorhynchus	98.15	838	9.29	
Helicolenus dactylopterus	93.08	453	8.81	1789
Merluccius paradoxus	89.40	81	8.46	1786
Merluccius capensis	61.59	18	5.83	1784
Zeus capensis	49.27	113	4.66	1782
Holohlaelurus regani	47.01	77	4.45	
ANTHOZOA (Sea anemones)	45.89	209	4.34	
Malacocephalus laevis	33.97	40	3.21	
Genypterus capensis	23.34	20	2.21	1781
Squalus mitsukurii	17.09	8	1.62	
Lophius vomerinus	16.19	10	1.53	1783
Merluccius paradoxus	6.16	10	0.58	1785
Starfish	5.68	0	0.54	0
Todarodes angolensis	3.62	4	0.34	1787
G A S T R O P O D S	3.58	0	0.34	
Parapagurus pilosimanus	2.63	129	0.25	
Todaropsis eblanae	2.09	14	0.20	1790
Paracallionymus costatus	1.29	155	0.12	
Todaropsis eblanae	1.11	14	0.11	1791
Hoplostethus mediterraneus	1.10	14	0.10	
Sepia hieronis	0.79	14	0.08	
Mursia cristimanus	0.61	66	0.06	
Rossia enigmatica	0.52	26	0.05	
Rochinia sp.	0.40	66	0.04	
B I V A L V E S	0.19	246	0.02	
Sepia typica	0.09	14	0.01	
Exodromidia sp.	0.09	26	0.01	
Lampanyctodes hectoris	0.06	14	0.01	
C R A B S, juvenile	0.03	14	0.00	
Parapagurus dimorphus	0.03	26	0.00	
Total	1057.03		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 186  
 DATE :15/02/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 31°57.53  
 start stop duration Purpose : 3  
 TIME :08:36:54 08:57:00 20.1 (min) Lon E 16°3.91  
 LOG : 9568.91 9569.89 1.0 Region : 6000  
 FDEPTH: 675 677 Gear cond.: 0  
 BDEPTH: 675 677 Validity : 0  
 Towing dir: 0° Wire out : 1500 m Speed : 2.9 km  
 Sorted : 98 Total catch: 98.22 Catch/hour: 293.35

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	77.65	57	26.47	1811
Centroprorus squamosus	67.79	6	23.11	
Caelorinchus braueri	64.21	544	21.89	
Bathyrja smithii	16.72	3	5.70	
Centroprorus squamosus, male	13.74	3	4.68	
Photichthys argenteus	11.26	164	3.84	
Nezumia sp.	6.87	72	2.34	
Todarodes angolensis	4.36	6	1.49	1814
Trachyscorpia eschmeyerii	4.09	9	1.39	
Selachophidium guentheri	3.58	36	1.22	
Histioteuthis miranda	3.52	12	1.20	
Sergia sp.	3.02	376	1.03	
Neoscolepus macrolepidotus	1.85	66	0.63	
Helicolenus dactylopterus	1.73	6	0.59	1812
Todarodes angolensis	1.64	3	0.56	1813
Chaceon sp.	1.58	18	0.54	
Malacocephalus laevis	1.40	6	0.48	
Diretmus argenteus	1.37	30	0.47	
Raja leopardus	1.13	6	0.39	
Photonectes braueri	0.91	15	0.31	
Gymnoscopelus cf braueri	0.87	122	0.30	
Funchalia woodwardi	0.81	66	0.27	
Notacanthus sexspinis	0.78	3	0.27	
Caelorinchus matama	0.73	3	0.25	
Merluccius paradoxus	0.45	3	0.15	1810
Lepidion capensis	0.39	3	0.13	
Psychrolutes macrocephalus	0.27	3	0.09	
Scopelosaurus meadi	0.16	6	0.05	
MYCTOPHIDAE	0.15	9	0.05	
Diaphys sp.	0.08	6	0.03	
Chauliodus minimus	0.07	3	0.02	
Spirula spirula	0.06	6	0.02	
Etmopterus brachyurus	0.03	3	0.01	
Nemichthys scolopaceus	0.01	3	0.01	
Oreosoma atlanticum	0.01	3	0.00	
Electrona risso	0.01	3	0.00	
Stoloteuthis sp.	0.01	3	0.00	
MELAMPHIDAE	0.01	3	0.00	
PARALEPIDIDAE	0.01	3	0.00	
Total	293.35		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 184  
 DATE :15/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 32°4.33  
 start stop duration Purpose : 3  
 TIME :04:20:06 04:50:18 30.2 (min) Lon E 16°13.97  
 LOG : 9547.05 9548.57 1.5 Region : 6000  
 FDEPTH: 554 551 Gear cond.: 0  
 BDEPTH: 554 551 Validity : 0  
 Towing dir: 0° Wire out : 1385 m Speed : 3.0 km  
 Sorted : 150 Total catch: 150.16 Catch/hour: 298.34

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	109.27	85	36.63	1799
Chaceon sp.	39.74	709	13.32	
Funchalia woodwardi	21.16	2350	7.09	
Merluccius paradoxus	18.87	26	6.33	1798
Bristle worms (straws)	15.30	1913	5.13	
Malacocephalus laevis	14.30	24	4.79	
Genypterus capensis	12.02	2	4.03	1792
Helicolenus dactylopterus	11.13	66	3.73	1794
Merluccius paradoxus	10.33	58	3.46	1797
Caelorinchus braueri	8.15	302	2.73	
Selachophidium guentheri	5.86	62	1.96	
Anemones, pink	5.58	22	1.87	
Notacanthus sexspinis	3.87	50	1.30	
Myxine capensis	3.18	60	1.07	
Todarodes angolensis	2.78	2	0.93	1796
Starfish	2.42	270	0.81	
Raja leopardus	2.28	24	0.77	
Lophius vomerinus	2.09	2	0.70	1793
Todarodes angolensis	1.61	2	0.54	1795
Hydrolagus sp.	1.57	2	0.53	
Psychrolutes macrocephalus	1.47	6	0.49	
Anemones, white	0.99	6	0.33	
Photichthys argenteus	0.75	24	0.25	
Anemones, red	0.72	2	0.24	
G A S T R O P O D S	0.60	14	0.20	
Bathypolypus valdiviae	0.40	6	0.13	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 187  
 DATE :15/02/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 31°49.63  
 start stop duration Purpose : 3  
 TIME :10:23:38 10:43:11 19.5 (min) Region : 6000  
 LOG : 9577.49 9578.49 1.0 Gear cond.: 0  
 FDEPTH: 567 564 Validity : 0  
 BDEPTH: 567 564 Speed : 3.1 km  
 Towing dir: 0° Wire out : 1420 m Catch/hour: 279.70  
 Sorted : 91 Total catch: 91.09

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 190  
 DATE :15/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 31°27.21  
 start stop duration Purpose : 3  
 TIME :17:01:04 17:21:19 20.3 (min) Region : 6000  
 LOG : 9623.92 9624.91 1.0 Gear cond.: 0  
 FDEPTH: 303 302 Validity : 0  
 BDEPTH: 303 302 Speed : 2.9 km  
 Towing dir: 0° Wire out : 770 m Catch/hour: 436.78  
 Sorted : 147 Total catch: 147.41

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	116.68	95	41.72	1816
Funchalia woodwardi	73.69	5668	26.35	
Helicolenus dactylopterus	26.10	98	9.33	1818
Caelorinchus braueri	12.28	123	4.39	
Malacocephalus laevis	9.64	37	3.45	
Genypteris capensis	9.21	3	3.29	1817
Merluccius paradoxus	8.60	9	3.07	1815
Raja leopardus	4.61	9	1.65	
Photichthys argenteus	4.48	126	1.60	
Todarodes angolensis	4.39	3	1.57	1820
Selachophidium guentheri	3.04	28	1.09	
Todarodes angolensis	1.35	3	0.48	1819
Notacanthus sexspinus	1.35	25	0.48	
Hydrolagus sp.	1.20	3	0.43	
Nezumia sp.	0.60	12	0.21	
Cruriraja parcomaculata	0.58	3	0.21	
Histioteuthis miranda	0.57	9	0.20	
Bathypolypus valdiviae	0.30	3	0.11	
Chaeceon macphersoni	0.30	6	0.11	
Photonectes braueri	0.30	6	0.11	
Lycoteuthis lorigera	0.14	6	0.05	
Scopelosaurus meadi	0.10	3	0.04	
Neoscopelus macrolepidotus	0.09	3	0.03	
Rossia enigmatica	0.04	3	0.01	
Oreosoma atlanticum	0.02	6	0.01	
MYCTOPHIDAE	0.02	9	0.01	
Total	279.70		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Zeus capensis	154.07	376	35.27	1844
Helicolenus dactylopterus	65.19	847	14.92	1845
Caelorinchus simorhynchus	56.30	563	12.89	
Merluccius capensis	38.52	15	8.82	1846
Octopus magnificus	32.59	6	7.46	
Holohalaelurus regani	17.78	47	4.07	
Trachurus capensis	12.15	50	2.78	1848
Merluccius paradoxus	10.37	80	2.37	1850
Brama brama	10.07	6	2.31	1847
Epigonus denticulatus	8.15	154	1.87	
Malacocephalus laevis	7.73	44	1.77	
Lepidopus caudatus	5.48	24	1.25	
Scylliorhinus capensis	4.15	6	0.95	
Todaropsis eblanae	3.94	47	0.90	1852
Lophius vomerinus	3.56	3	0.81	1849
Todaropsis eblanae	3.53	39	0.81	1853
Chelidonichthys queketti	1.63	9	0.37	1851
Paracallionymus costatus	0.38	47	0.09	
Spatangus capensis	0.38	3	0.09	
Cynoglossus zanzibarensis	0.32	6	0.07	1854
Rossia enigmatica	0.20	15	0.04	
Maurolicus muelleri	0.10	59	0.02	
Merluccius paradoxus	0.06	27	0.01	1855
Champsodon capensis	0.04	3	0.01	
Diplophos taenia	0.04	3	0.01	
Bristle worms	0.03	6	0.01	
Lolligoncula mercatoris	0.03	18	0.01	
Sepia dubia	0.01	3	0.00	
Total	436.78		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 188  
 DATE :15/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 31°43.28  
 start stop duration Purpose : 3  
 TIME :12:19:14 12:39:25 20.2 (min) Region : 6000  
 LOG : 9589.63 9590.64 1.0 Gear cond.: 0  
 FDEPTH: 454 453 Validity : 0  
 BDEPTH: 454 453 Speed : 3.0 km  
 Towing dir: 0° Wire out : 1125 m Catch/hour: 3257.90  
 Sorted : 402 Total catch: 1096.29

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	2410.60	8092	73.99	1828
Merluccius paradoxus	291.23	178	8.94	1827
Lophius vomerinus	118.87	77	3.65	1822
Genypteris capensis	100.15	36	3.07	1821
Starfish	72.15	14431	2.21	
Bassanago albescens	69.09	77	2.12	
Caelorinchus simorhynchus	40.38	440	1.24	
Brama brama	29.72	15	0.91	1823
Holohalaelurus regani	27.02	62	0.83	
Helicolenus dactylopterus	25.79	137	0.79	1829
Malacocephalus laevis	13.36	15	0.41	
Todarodes angolensis	11.89	9	0.36	1825
Merluccius paradoxus	8.92	30	0.27	1826
Todarodes angolensis	6.24	9	0.19	1824
G A S T R O P O D S	5.68	155	0.17	
Parapagurus pilosimanus	4.18	321	0.13	
Rossia enigmatica	4.15	184	0.13	
Lucigadus ori	3.95	431	0.12	
Paracallionymus costatus	3.49	689	0.11	
Anemones, white	3.22	15	0.10	
Heart urchin	3.07	461	0.09	
Myxine capensis	1.08	15	0.03	
Epigonus sp.	0.92	62	0.03	
Munidopsis sp.	0.46	62	0.01	
Tripterophycis gilchristi	0.40	30	0.01	
Symbolophorus boops	0.40	30	0.01	
Todaropsis eblanae	0.33	30	0.01	1830
Lestidiops sp.	0.31	15	0.01	
Stereomastis sp.	0.31	45	0.01	
Physiculus capensis	0.25	15	0.01	
Sepia sp. Sharon	0.25	15	0.01	
Chlorophthalmus punctatus	0.06	15	0.00	
Total	3257.90		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 191  
 DATE :16/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 31°39.96  
 start stop duration Purpose : 3  
 TIME :04:26:00 04:47:09 21.2 (min) Region : 6000  
 LOG : 9680.91 9681.97 1.1 Gear cond.: 0  
 FDEPTH: 136 136 Validity : 0  
 BDEPTH: 136 136 Speed : 3.0 km  
 Towing dir: 0° Wire out : 380 m Catch/hour: 858.43  
 Sorted : 302 Total catch: 2434.11

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius capensis	1071.83	14291	44.03	1861
JELLYFISH	535.92	0	22.02	
Callorinchus capensis	510.40	493	20.97	
Chelidonichthys capensis	96.41	284	3.96	1856
Lampanyctodes hectortis	94.42	23606	3.88	
Pterygosquilla armata capensis	46.96	2609	1.93	
Raja straeleni	22.12	20	0.91	
Mustelus palumbes	12.76	6	0.52	
Jasus lalandii	9.93	77	0.41	1860
Genypteris capensis	9.36	20	0.38	1857
Squalus acanthias	7.09	31	0.29	
Jasus lalandii	5.97	51	0.25	1859
Starfish	3.70	0	0.15	
G A S T R O P O D S	2.55	77	0.10	
Lepidopus caudatus	1.53	77	0.06	
G A S T R O P O D S	1.40	77	0.06	0
Exodromidia sp.	0.79	51	0.03	
Lophius vomerinus	0.57	3	0.02	1858
Mursia cristimanus	0.36	26	0.01	
Trachurus capensis	0.05	26	0.00	1862
Total	2434.11		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 189  
 DATE :15/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 31°38.90  
 start stop duration Purpose : 3  
 TIME :14:12:36 14:32:59 20.4 (min) Region : 6000  
 LOG : 9601.64 9602.67 1.0 Gear cond.: 8  
 FDEPTH: 374 376 Validity : 1  
 BDEPTH: 374 376 Speed : 3.0 km  
 Towing dir: 0° Wire out : 960 m Catch/hour: 1123.36  
 Sorted : 379 Total catch: 381.38

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	344.62	1859	30.68	1831
Zeus capensis	288.66	704	25.70	1832
Caelorinchus simorhynchus	209.13	2351	18.62	
Lepidopus caudatus	91.31	121	8.13	
Helicolenus dactylopterus	42.71	159	3.80	1835
Merluccius capensis	23.56	9	2.10	1840
Malacocephalus laevis	21.35	77	1.90	
Merluccius paradoxus	14.14	12	1.26	1839
Brama brama	13.40	9	1.19	1834
Genypteris capensis	10.75	15	0.96	1833
Lophius vomerinus	9.43	6	0.84	1836
Todarodes angolensis	8.84	9	0.79	1837
Epigonus sp.	6.63	94	0.59	
Merluccius paradoxus	5.45	9	0.49	1838
Todaropsis eblanae	5.24	53	0.47	1842
Todaropsis eblanae	4.42	44	0.39	1843
Holohalaelurus regani	3.98	12	0.35	
Parapagurus pilosimanus	3.89	200	0.35	
Squalus mitsukurii	3.83	3	0.34	
Scylliorhinus capensis	3.09	9	0.28	
Sepia hieronis	1.97	35	0.18	
Todarodes angolensis	1.62	6	0.14	1841
Anemones, white	1.34	6	0.12	
G A S T R O P O D S	0.95	41	0.08	
Cyttus traverisi	0.94	6	0.08	
Rossia enigmatica	0.67	35	0.06	
Beryx splendens	0.45	6	0.04	
Myxine capensis	0.31	6	0.03	
Lucigadus ori	0.21	12	0.02	
Paracallionymus costatus	0.14	18	0.01	
OCTOPODIDAE	0.12	6	0.01	
Mursia cristimanus	0.11	12	0.01	
CYPRAEIDAE (Bulia)	0.09	18	0.01	
Total	1123.36		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 192  
 DATE :16/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 31°9.84  
 start stop duration Purpose : 3  
 TIME :06:28:42 06:57:04 28.4 (min) Region : 6000  
 LOG : 9695.78 9697.22 1.4 Gear cond.: 0  
 FDEPTH: 184 182 Validity : 0  
 BDEPTH: 184 182 Speed : 3.0 km  
 Towing dir: 0° Wire out : 470 m Catch/hour: 3115.96  
 Sorted : 175 Total catch: 1473.85

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Etrumeus whiteheadi	2817.12	40245	90.41	
JELLYFISH	47.02	0	1.51	
Merluccius capensis	37.42	87	1.20	1865
Sardinops ocellatus	34.67	368	1.11	
Paracallionymus costatus	28.82	4803	0.92	
Thyrsites atun	27.91	15	0.90	1863
Todaropsis eblanae	26.66	932	0.86	1871
Starfish	19.50	4875	0.63	
Merluccius paradoxus	16.25	499	0.52	1868
Merluccius capensis	11.92	66	0.38	1867
Pterygosquilla armata capensis	9.53	867	0.31	
Lophius vomerinus	8.13	216	0.26	1870
Brama brama	5.07	4	0.16	1864
Helicolenus dactylopterus	4.72	347	0.15	1869
Spatangus capensis	4.66	21	0.15	
Cynoglossus zanzibarensis	3.81	21	0.12	1866
Raja straeleni	3.59	2	0.12	
Holohalaelurus regani	2.38	21	0.08	
Sepia australis	2.30	173	0.07	
Sepia hieronis	1.65	42	0.05	
Exodromidia sp.	0.87	21	0.03	
Parapagurus dimorphus	0.71	42	0.02	
Caelorinchus simorhynchus	0.54	42	0.02	
Mursia cristimanus	0.35	21	0.01	
G A S T R O P O D S	0.24	42	0.01	
Snail	0.11	21	0.00	
Total	3115.96		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 193  
 DATE :16/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 30°53.85  
 start stop duration Purpose : 3  
 LOG : 09:33:08 10:03:35 30.4 (min) Lon E 17°3.73  
 FDEPTH: 200 193 Region : 6000  
 BDEPTH: 200 193 Gear cond.: 0  
 Towing dir: 0° Wire out : 500 m Validity : 0  
 Sorted : 234 Total catch: 568.50 Speed : 3.1 km  
 CATCH/HOUR 1120.57 Catch/hour: 1120.57  
 SPECIES % OF TOT. C SAMP

SPECIES	weight	numbers	% OF TOT. C	SAMP
Etrumeus whiteheadi	272.01	3532	24.27	
Yellow sponges	141.92	0	12.66	
JELLYFISH	130.09	0	11.61	
Yellow sponges	130.09	0	11.61	0
Merluccius paradoxus	102.89	1857	9.18	1876
Brama brama	90.67	51	8.09	1873
Thyrsites atun	72.93	35	6.51	1872
Paracallionymus costatus	63.86	3548	5.70	
Merluccius paradoxus	18.92	1577	1.69	
Pterygosquilla armata capensis	17.74	65	1.58	1875
Helicolenus dactylopterus	11.00	769	0.98	1877
Parapagurus dimorphus	10.41	548	0.93	
Todaropsis eblanae	8.63	106	0.77	1879
Maurollicus muelleri	7.69	0	0.69	
Lophius vomerinus	6.62	47	0.59	1878
Callorhynchus capensis	5.81	2	0.52	
Holohalaelurus regani	4.38	71	0.39	
Todaropsis eblanae	3.90	177	0.35	1880
Exodromidia sp.	3.35	296	0.30	
Starfish	3.19	0	0.28	
Cynoglossus zanzibarensis	2.66	35	0.24	1881
Heart urchin	2.42	59	0.22	
Caelorinchus simorhynchus	1.75	118	0.16	
Sepia australis	1.36	83	0.12	
Genypterus capensis	1.30	8	0.12	1874
Merluccius paradoxus	1.15	83	0.10	1882
Sardinops ocellatus	1.10	12	0.10	
Lepidopus caudatus	1.04	24	0.09	
Lampanyctodes hectoris	0.83	0	0.07	
Sepia hieronis	0.43	47	0.04	
G A S T R O P O D S	0.28	47	0.03	
Bristle worms	0.09	12	0.01	
Lolligoncula mercatoris	0.04	20	0.00	
Total	1120.57		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 194  
 DATE :16/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 30°59.37  
 start stop duration Purpose : 3  
 LOG : 9733.73 9735.25 1.5 Lon E 16°51.96  
 FDEPTH: 227 228 Region : 6000  
 BDEPTH: 227 228 Gear cond.: 0  
 Towing dir: 0° Wire out : 560 m Validity : 0  
 Sorted : 113 Total catch: 576.79 Speed : 3.1 km  
 CATCH/HOUR 1164.83 Catch/hour: 1164.83  
 SPECIES % OF TOT. C SAMP

SPECIES	weight	numbers	% OF TOT. C	SAMP
Merluccius paradoxus	534.67	10003	45.90	1888
JELLYFISH	142.38	0	12.22	
Lophius vomerinus	115.11	273	9.88	1890
Helicolenus dactylopterus	71.19	2151	6.11	1889
Maurollicus muelleri	37.87	0	3.25	
Lampanyctodes hectoris	37.87	0	3.25	
Parapagurus dimorphus	37.41	2494	3.21	
Merluccius capensis	30.70	46	2.64	1887
Raja straeleni	24.23	8	2.08	
Anemones, pink	22.87	91	1.96	
URCHINS	20.45	386	1.76	
Paracallionymus costatus	19.24	1202	1.65	
Merluccius capensis	10.30	20	0.88	
Trachurus capensis	9.09	30	0.78	1884
Pterygosquilla armata capensis	6.82	77	0.59	
Sepia australis	5.91	327	0.51	
Holohalaelurus regani	5.91	30	0.51	
Callorhynchus capensis	5.86	2	0.50	
Caelorinchus simorhynchus	4.94	287	0.42	
Cynoglossus zanzibarensis	4.39	105	0.38	1892
Merluccius paradoxus	3.94	333	0.34	1891
Todaropsis eblanae	3.64	151	0.31	1893
Chelidonichthys capensis	3.23	6	0.28	1883
Starfish	2.42	30	0.21	
Hermits, mixed	1.44	91	0.12	
Sepia hieronis	1.21	16	0.10	
G A S T R O P O D S	0.91	16	0.08	
Genypterus capensis	0.81	2	0.07	1885
Lolligoncula mercatoris	0.06	30	0.01	
Total	1164.83		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 195  
 DATE :16/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 31°3.79  
 start stop duration Purpose : 3  
 LOG : 9748.64 9749.61 1.0 Lon E 16°39.39  
 FDEPTH: 256 255 Region : 6000  
 BDEPTH: 256 255 Gear cond.: 0  
 Towing dir: 0° Wire out : 650 m Validity : 0  
 Sorted : 107 Total catch: 761.59 Speed : 2.9 km  
 CATCH/HOUR 2299.73 Catch/hour: 2299.73  
 SPECIES % OF TOT. C SAMP

SPECIES	weight	numbers	% OF TOT. C	SAMP
Merluccius paradoxus	1627.58	27125	70.77	1902
Parapagurus dimorphus	232.51	16608	10.11	
Spatangus capensis	99.98	758	4.35	
Merluccius capensis	49.52	39	2.15	1904
Trachurus capensis	39.86	133	1.73	1900
Helicolenus dactylopterus	33.22	399	1.44	1901
Lophius vomerinus	30.20	27	1.31	1910
Caelorinchus simorhynchus	29.89	695	1.30	
Zeus capensis	27.48	48	1.19	1896
Holohalaelurus regani	20.26	66	0.88	
Paracallionymus costatus	12.29	1754	0.53	
Brama brama	11.78	6	0.51	1895
Todaropsis eblanae	11.29	233	0.49	1906
Todarodes angolensis	10.78	12	0.47	1899
Etrumeus whiteheadi	8.14	100	0.35	
Mustelus palumbes, male	7.40	3	0.32	
Merluccius capensis	7.10	6	0.31	1903
Genypterus capensis	6.49	3	0.28	1894
Squalus mitsukurii, male	5.59	3	0.24	
Cynoglossus zanzibarensis	5.15	66	0.22	1908
Starfish	4.65	531	0.20	
Todaropsis eblanae	4.32	299	0.19	1907
Sepia hieronis	2.99	66	0.13	
Rossia enigmatica	2.89	199	0.13	
G A S T R O P O D S	1.76	100	0.08	
Todarodes angolensis	1.42	3	0.06	1898
Anemones, red	1.16	33	0.05	
Merluccius paradoxus	0.96	166	0.04	1909
Pterygosquilla armata capensis	0.90	199	0.04	
Mursia cristimanus	0.66	66	0.03	
Sepia dubia	0.60	199	0.03	
Chelidonichthys queketti	0.45	3	0.02	1897
Todaropsis eblanae	0.33	33	0.01	1905
Lolligoncula mercatoris	0.13	66	0.01	
Maurollicus muelleri	0.00	0	0.00	
Total	2299.73		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 196  
 DATE :16/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 31°11.62  
 start stop duration Purpose : 3  
 LOG : 16:49:00 17:19:21 30.4 (min) Lon E 16°27.36  
 FDEPTH: 316 314 Region : 6000  
 BDEPTH: 316 314 Gear cond.: 0  
 Towing dir: 0° Wire out : 850 m Validity : 0  
 Sorted : 155 Total catch: 270.16 Speed : 3.0 km  
 CATCH/HOUR 534.08 Catch/hour: 534.08  
 SPECIES % OF TOT. C SAMP

SPECIES	weight	numbers	% OF TOT. C	SAMP
Merluccius paradoxus	106.75	1192	19.99	1919
Caelorinchus simorhynchus	97.86	0	18.32	
Zeus capensis	72.16	229	13.51	1911
Merluccius capensis	53.38	20	9.99	1918
Malacocephalus laevis	34.10	221	6.39	
Lophius vomerinus	19.18	10	3.59	1913
Helicolenus dactylopterus	16.31	249	3.05	1920
Spatangus capensis	15.72	125	2.94	
Squalus mitsukurii	15.02	8	2.81	
Bristle worms	14.83	3707	2.78	
Holohalaelurus regani	11.51	36	2.15	
Epigonus denticulatus	10.68	196	2.00	
Genypterus capensis	10.28	14	1.92	1912
Callorhynchus capensis	8.90	2	1.67	
Chelidonichthys queketti	8.60	42	1.61	1922
Trachurus capensis	6.88	30	1.29	1924
Merluccius capensis	4.55	2	0.85	1917
Todarodes angolensis	4.05	4	0.76	1915
Paracallionymus costatus	3.56	324	0.67	
Todaropsis eblanae	3.50	42	0.66	1926
Merluccius paradoxus	3.16	2	0.59	1916
Cynoglossus zanzibarensis	2.75	36	0.51	1923
Todaropsis eblanae	2.73	36	0.51	1925
Todarodes angolensis	2.57	4	0.48	1914
Merluccius paradoxus	1.93	409	0.36	1921
Todaropsis eblanae	1.42	59	0.27	1927
Starfish	1.13	148	0.21	
Mursia cristimanus	0.20	24	0.04	
Xenolepidichthys dagleishi	0.11	6	0.02	
Parapagurus dimorphus	0.07	12	0.01	
Rochinia sp.	0.06	12	0.01	
Exodromidia sp.	0.04	12	0.01	
Sepia dubia	0.02	6	0.00	
Pterygosquilla armata capensis	0.02	6	0.00	
Lolligoncula mercatoris	0.02	12	0.00	
Rossia enigmatica	0.01	6	0.00	
Stoloteuthis sp.	0.01	6	0.00	
Shark eggs	0.01	6	0.00	
Hermits, mixed	0.01	12	0.00	
Total	534.08		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 197  
 DATE :17/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 31°19.71  
 start stop duration Purpose : 3  
 LOG : 04:28:20 04:58:21 30.0 (min) Lon E 16°16.35  
 FDEPTH: 430 432 Region : 6000  
 BDEPTH: 430 432 Gear cond.: 0  
 Towing dir: 0° Wire out : 1100 m Validity : 0  
 Sorted : 279 Total catch: 716.78 Speed : 3.0 km  
 CATCH/HOUR 1432.61 Catch/hour: 1432.61  
 SPECIES % OF TOT. C SAMP

SPECIES	weight	numbers	% OF TOT. C	SAMP
Merluccius paradoxus	308.59	1199	21.54	1931
Merluccius paradoxus	289.81	266	20.23	1934
Helicolenus dactylopterus	166.29	608	11.61	1932
Dead coral	159.89	0	11.16	
Parapagurus pilosimanus	107.13	21426	7.48	
Caelorinchus simorhynchus	83.14	3198	5.80	
Bassanago albescens	52.76	48	3.68	
Malacocephalus laevis	46.05	48	3.21	
Merluccius paradoxus	43.97	48	3.07	1933
Genypterus capensis	31.98	22	2.23	1929
Mustelus palumbes	31.98	14	2.23	
Anemones, white	25.90	272	1.81	
Merluccius capensis	16.59	6	1.16	1935
Lophius vomerinus	14.39	12	1.00	1928
Anemones, pink	13.91	48	0.97	
Rossia enigmatica	11.19	466	0.78	
Epigonus sp.	9.75	320	0.68	
G A S T R O P O D S	6.40	0	0.45	
Paracallionymus costatus	3.68	608	0.26	
Todarodes angolensis	2.40	2	0.17	1930
Hydrolagus sp.	2.20	2	0.15	
Sepia hieronis	1.69	32	0.12	
Lucigadus ori	1.28	224	0.09	
Rochinia sp.	0.70	96	0.05	
Parapagurus dimorphus	0.42	144	0.03	
Mursia cristimanus	0.13	16	0.01	
Stereomastis sp.	0.13	32	0.01	
Lamp shell	0.11	16	0.01	
CYPRAEIDAE (Bulia)	0.08	48	0.01	
Lampanyctodes hectoris	0.03	16	0.00	
Hoplostethus mediterraneus, juvenile	0.03	16	0.00	
Total	1432.61		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 198  
 DATE :17/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 31°27.82  
 start stop duration Purpose : 3  
 TIME :07:54:16 08:24:29 30.2 (min) Lon E 15°55.66  
 LOG : 9813.96 9815.40 1.4 Region : 6000  
 FDEPTH: 521 521 Gear cond.: 0  
 BDEPTH: 521 521 Validity : 0  
 Towing dir: 0° Wire out : 1310 m Speed : 2.9 km  
 Sorted : 458 Total catch: 515.84 Catch/hour: 1024.16

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	684.98	1223	66.88	1939
Starfish - rough	84.38	16876	8.24	
Helicolenus dactylopterus	49.64	312	4.85	1938
Chaceon sp.	37.23	465	3.63	
Ruvettus pretiosus	33.75	4	3.30	
Caelorinchus braueri	21.34	203	2.08	
Lophius vomerinus	16.48	6	1.61	1936
Selachophidium guentheri	14.89	127	1.45	
Bathyrja smithi	11.12	2	1.09	
Malacocephalus laevis	8.69	44	0.85	
Genypterus capensis	8.34	2	0.81	1937
Cruriraja parcomaculata	6.65	12	0.65	
Raja leopardus	6.35	10	0.62	
Todarodes angolensis	4.96	6	0.48	1941
Anemones, pink	4.17	10	0.41	
Raja dissimilis	3.97	4	0.39	
Photichthys argenteus	3.08	91	0.30	
Parapagurus pilosimanus	2.98	141	0.29	
Myxine capensis	2.48	44	0.24	
Caelorinchus simorhynchus	2.23	16	0.22	
Todarodes angolensis	2.18	4	0.21	1940
Anemones, white	2.13	20	0.21	
Notacanthus sexspinis	1.72	36	0.17	
Bassanago albescens	1.64	16	0.16	
Holohalaelurus regani	1.54	6	0.15	
Rossia enigmatica	1.44	64	0.14	
Shark eggs	1.41	6	0.14	
Funchalia woodwardi	1.37	163	0.13	
Hydrolagus sp.	0.79	10	0.08	
Lycoteuthis lorigera	0.73	20	0.07	
Psychrolutes macrocephalus	0.45	6	0.04	
Paracallionymus costatus	0.36	83	0.04	
Lucigadus ori	0.27	40	0.03	
Rochinia sp.	0.16	44	0.02	
Hermits, mixed	0.10	44	0.01	
Stereomastis sp.	0.07	44	0.01	
Munidopsis sp.	0.03	6	0.00	
CYPRAEIDAE (Bulia)	0.02	6	0.00	
Stoloteuthis sp.	0.02	6	0.00	
Pterygosquilla armata capensis	0.02	6	0.00	
Sepia dubia	0.00	6	0.00	
Lamp shell	0.00	6	0.00	
Total	1024.16		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 199  
 DATE :17/02/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 31°30.00  
 start stop duration Purpose : 3  
 TIME :10:40:26 11:10:21 29.9 (min) Lon E 15°43.18  
 LOG : 9829.00 9830.50 1.5 Region : 6000  
 FDEPTH: 663 667 Gear cond.: 0  
 BDEPTH: 663 667 Validity : 0  
 Towing dir: 0° Wire out : 1670 m Speed : 3.0 km  
 Sorted : 153 Total catch: 153.30 Catch/hour: 307.63

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Trachyrincus scabrus	172.58	1780	56.10	
Merluccius paradoxus	79.26	54	25.77	1943
Nezumia sp.	24.14	223	7.85	
Todarodes angolensis	5.82	8	1.89	1945
Caelorinchus matama	3.99	30	1.30	
Trachyscorpia eschmeyerii	3.95	8	1.29	1944
Malacocephalus laevis	2.81	4	0.91	
Merluccius paradoxus	2.01	2	0.65	1942
Raja leopardus	1.91	6	0.62	
Sergia sp.	1.40	702	0.46	
Photichthys argenteus	1.40	30	0.46	
Selachophidium guentheri	1.26	12	0.41	
Gymnoscopelus cf braueri	1.06	159	0.35	
Hydrolagus sp.	0.86	4	0.28	
Etmopterus brachyurus	0.78	16	0.25	
Centrophorus granulosus	0.70	2	0.23	
Neoscopelus macrolepidotus	0.62	48	0.20	
Chaceon sp.	0.58	8	0.19	
Symbolophorus boops	0.51	40	0.17	
Diretmus argenteus	0.42	4	0.14	
Bathypolypus valdiviae	0.28	2	0.09	
Chauliodon minimus	0.24	16	0.08	
Echiostoma barbartum	0.24	6	0.08	
Notacanthus sexspinis	0.13	4	0.04	
MYCTOPHIDAE	0.10	8	0.03	0
JELLYFISH	0.08	0	0.02	
Plesionika martia	0.07	12	0.02	
Tripterophycis gilchristi	0.06	2	0.02	
Careproctus griseldea	0.05	2	0.02	
Lycodes agulhensis	0.05	8	0.02	
Stoloteuthis sp.	0.05	8	0.02	
Howella sherboni	0.04	4	0.01	
Funchalia woodwardi	0.04	4	0.01	
Electrona risso	0.03	2	0.01	
Plesionika edwardsii	0.03	2	0.01	
Ctenopteryx sicula	0.01	2	0.00	
Oreosoma atlanticum, juvenile	0.01	2	0.00	
MYCTOPHIDAE	0.01	2	0.00	
Scopelosaurus herwigi	0.01	2	0.00	
Lampadena sp.	0.01	2	0.00	
MELAMPHIDAE	0.00	2	0.00	
Euphausiacea	0.00	2	0.00	
Phyllosoma	0.00	2	0.00	
Total	307.63		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 200  
 DATE :17/02/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 31°21.66  
 start stop duration Purpose : 3  
 TIME :12:54:06 13:24:06 30.0 (min) Lon E 15°48.52  
 LOG : 9840.52 9842.05 1.5 Region : 6000  
 FDEPTH: 560 557 Gear cond.: 0  
 BDEPTH: 560 557 Validity : 0  
 Towing dir: 0° Wire out : 1400 m Speed : 3.1 km  
 Sorted : 265 Total catch: 264.77 Catch/hour: 529.37

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	293.90	400	55.52	1947
Ruvettus pretiosus	119.96	2	22.66	1946
Trachyrincus scabrus	49.98	596	9.44	
Helicolenus dactylopterus	15.19	62	2.87	1949
Malacocephalus laevis	14.20	44	2.68	
Lophius vomerinus	9.40	6	1.78	1948

Selachophidium guentheri	7.00	80	1.32	
Raja leopardus	4.40	6	0.83	
Hydrolagus sp.	3.50	10	0.66	
Photichthys argenteus	2.48	42	0.47	
Todarodes angolensis	2.40	2	0.45	1950
Bassanago albescens	1.72	4	0.32	
Todarodes angolensis	1.10	2	0.21	1951
Psychrolutes macrocephalus	0.98	2	0.19	
Caelorinchus matama	0.88	4	0.17	
Holohalaelurus regani	0.64	2	0.12	
Funchalia woodwardi	0.40	44	0.08	
Chaceon sp.	0.28	4	0.05	
Rossia enigmatica	0.26	8	0.05	
Hoplostethus mediterraneus	0.16	2	0.03	
Symbolophorus boops	0.11	10	0.02	
Etmopterus brachyurus	0.09	2	0.02	
Persparia kopua	0.07	2	0.01	
Lucigadus ori	0.07	6	0.01	
Gymnoscopelus sp.	0.05	2	0.01	
Diretmoides parini	0.05	2	0.01	
Neoscopelus macrolepidotus	0.05	2	0.01	
Tripterophycis gilchristi	0.04	2	0.01	
Hoplostethus mediterraneus, juvenile	0.00	2	0.00	
Total	529.37		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 201  
 DATE :17/02/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 31°13.22  
 start stop duration Purpose : 3  
 TIME :15:05:06 15:35:08 30.0 (min) Lon E 15°52.28  
 LOG : 9851.47 9853.09 1.6 Region : 6000  
 FDEPTH: 481 482 Gear cond.: 0  
 BDEPTH: 481 482 Validity : 0  
 Towing dir: 0° Wire out : 1200 m Speed : 3.2 km  
 Sorted : 446 Total catch: 445.86 Catch/hour: 890.82

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	527.47	1990	59.21	1953
Merluccius paradoxus	161.84	178	18.17	1961
Merluccius paradoxus	47.95	60	5.38	1962
Genypterus capensis	36.26	10	4.07	1952
Caelorinchus simorhynchus	16.98	164	1.91	
Bassanago albescens	15.58	22	1.75	
Merluccius capensis	14.79	4	1.66	1954
Helicolenus dactylopterus	12.29	42	1.38	1956
Lophius vomerinus	11.39	6	1.28	1955
Malacocephalus laevis	10.79	36	1.21	
Epigonus denticulatus	9.79	120	1.10	
Hydrolagus sp.	6.19	6	0.70	
Todarodes angolensis	4.30	4	0.48	1959
Schedophilus huttoni	3.90	2	0.44	
Brama brama	2.40	2	0.27	1957
Todarodes angolensis	2.36	4	0.26	1958
Lepidopus caudatus	2.20	2	0.25	
Holohalaelurus regani	1.62	6	0.18	
Todaropsis eblanae	1.14	10	0.13	1960
Rossia enigmatica	0.40	14	0.04	
Lucigadus ori	0.34	40	0.04	
Selachophidium guentheri	0.29	4	0.03	
Hoplostethus mediterraneus	0.19	12	0.02	
Symbolophorus boops	0.14	16	0.02	
Tripterophycis gilchristi	0.09	6	0.01	
Parapagurus pilosimanus	0.06	2	0.01	
Paracallionymus costatus	0.04	4	0.00	
Nemichthys scolopaceus	0.02	2	0.00	
Total	890.82		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 202  
 DATE :17/02/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 31°9.86  
 start stop duration Purpose : 3  
 TIME :17:11:20 17:33:31 22.2 (min) Lon E 15°57.52  
 LOG : 9865.33 9866.54 1.2 Region : 6000  
 FDEPTH: 356 354 Gear cond.: 0  
 BDEPTH: 356 354 Validity : 0  
 Towing dir: 0° Wire out : 920 m Speed : 3.3 km  
 Sorted : 189 Total catch: 820.68 Catch/hour: 2219.05

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	773.32	6292	34.85	1968
Epigonus denticulatus	527.26	11984	23.76	
Zeus capensis	456.96	1038	20.59	1971
Caelorinchus simorhynchus	110.73	827	4.99	
Holohalaelurus regani	75.57	195	3.41	
Merluccius capensis	64.89	22	2.92	1965
Helicolenus dactylopterus	51.67	176	2.33	1970
Merluccius paradoxus	45.97	30	2.07	1967
Genypterus capensis	40.56	43	1.83	1964
Merluccius paradoxus	24.34	24	1.10	1966
Malacocephalus laevis	17.75	141	0.80	
Lophius vomerinus	17.58	8	0.79	1963
Merluccius capensis	6.49	3	0.29	1969
Todaropsis eblanae	3.69	35	0.17	1972
Cyttus traversi	1.32	16	0.06	
Rossia enigmatica	0.48	35	0.02	
Paracallionymus costatus	0.21	54	0.01	
Exodromidia sp.	0.14	16	0.01	
Stereomastis sp.	0.12	16	0.01	
Total	2219.05		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 203  
 DATE :18/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 30°54.92  
 start stop duration Lon E 16°26.02  
 TIME :04:28:32 05:00:50 32.3 (min) Purpose : 3  
 LOG : 9917.37 9919.08 1.7 Region : 6000  
 FDEPTH: 280 275 Gear cond.: 0  
 BDEPTH: 280 275 Validity : 0  
 Towing dir: 0° Wire out : 700 m Speed : 3.2 km  
 Sorted : 75 Total catch: 194.90 Catch/hour: 362.16

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 205  
 DATE :18/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 30°36.43  
 start stop duration Lon E 16°52.00  
 TIME :09:35:35 10:05:52 30.3 (min) Purpose : 3  
 LOG : 9950.52 9952.12 1.6 Region : 6000  
 FDEPTH: 192 194 Gear cond.: 0  
 BDEPTH: 192 194 Validity : 0  
 Towing dir: 0° Wire out : 500 m Speed : 3.2 km  
 Sorted : 180 Total catch: 630.03 Catch/hour: 1248.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Caelorinchus simorhynchus	58.53	688	16.16	
Zeus capensis	49.43	123	13.65	1979
Helicolenus dactylopterus	39.02	624	10.77	1978
Merluccius paradoxus	29.07	331	8.03	1980
Genypterus capensis	18.58	19	5.13	1974
Trachurus capensis	15.54	65	4.29	1982
Starfish - rough	13.90	2317	3.84	
Merluccius capensis	13.75	7	3.80	1987
Spatangus capensis	13.01	130	3.59	
Todaropsis eblanae	12.81	169	3.54	1983
Holohalaelurus regani	11.84	45	3.27	
Bristle worms	10.87	2174	3.00	
Todaropsis eblanae	8.71	123	2.41	1984
Squalus mitsukurii	7.99	7	2.21	
Chelidonichthys queketti	7.15	65	1.98	1991
Thyrssites atun	6.69	6	1.85	1973
Malacocephalus laevis	6.50	52	1.80	
Cynoglossus zanzibarensis	5.46	156	1.51	1981
Todarodes angolensis	4.55	4	1.26	1976
Rossia enigmatica	4.17	214	1.15	
Raja straeleni	2.69	2	0.74	
Paracallionymus costatus	2.05	463	0.57	0
Merluccius paradoxus	1.95	2	0.54	1986
Sepia hieronis	1.84	35	0.51	
Parapagurus dimorphus	1.78	819	0.49	
Merluccius capensis	1.67	2	0.46	1988
Starfish	1.63	130	0.45	
Lophius vomerinus	1.58	2	0.44	1977
Merluccius paradoxus	1.37	253	0.38	1985
Paracallionymus costatus	1.24	175	0.34	
Caelorinchus simorhynchus	1.05	108	0.29	0
JELLYFISH	0.94	0	0.26	
Heart urchin	0.85	35	0.24	
Todarodes angolensis	0.84	2	0.23	1975
Emmelichthys nitidus	0.59	7	0.16	
Merluccius paradoxus	0.57	178	0.16	1990
Sepia hieronis	0.49	7	0.14	0
Sepia typica	0.28	54	0.08	
Rossia enigmatica	0.24	13	0.07	0
Mursia cristimanus	0.23	19	0.06	0
Mursia cristimanus	0.18	35	0.05	
Rochinia sp.	0.18	35	0.05	
Chlorophthalmus punctatus	0.11	19	0.03	
Exodromidia sp.	0.07	19	0.02	
Helicolenus dactylopterus	0.05	71	0.01	1989
Shrimps, small, non comm.	0.04	19	0.01	
Sepia typica	0.03	7	0.01	0
ISOPODS	0.02	19	0.01	
Shark eggs	0.01	7	0.00	
Total	362.16		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	499.17	11146	40.00	2011
Yellow sponges	198.09	0	15.87	
Etrumeus whiteheadi	94.29	2096	7.56	
Parapagurus dimorphus	83.20	7563	6.67	
Brama brama	61.41	34	4.92	2006
Paracallionymus costatus	53.52	8920	4.29	
JELLYFISH	52.69	0	4.22	
Todaropsis eblanae	43.26	897	3.47	2012
Todaropsis eblanae	38.55	804	3.09	2013
Merluccius paradoxus	25.24	2856	2.02	2015
Thyrssites atun	21.79	12	1.75	2007
Heart urchin	20.80	1192	1.67	
Sepia australis	15.42	832	1.24	
Helicolenus dactylopterus	12.20	1192	0.98	2014
Pterygosquilla armata capensis	6.35	444	0.51	
Merluccius capensis	4.75	10	0.38	2008
Starfish	4.71	0	0.38	
Todarodes angolensis	2.18	2	0.17	2010
Sea pens	1.91	0	0.15	
Snail	1.66	55	0.13	
Exodromidia sp.	1.61	166	0.13	
Lophius vomerinus	1.41	55	0.11	2016
Caelorinchus simorhynchus	1.28	166	0.10	
Todaropsis eblanae	0.47	83	0.04	2017
Lolligoncula mercatoris	0.47	194	0.04	
Genypterus capensis	0.40	2	0.03	2009
Sepia hieronis	0.31	28	0.02	
Lampanyctodes hectoris	0.28	83	0.02	
Bristle worms	0.25	28	0.02	
Physiculus capensis	0.22	28	0.02	
Sepia typica	0.08	28	0.01	
Rochinia sp.	0.03	28	0.00	
Total	1248.00		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 206  
 DATE :18/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 30°31.65  
 start stop duration Lon E 17°4.26  
 TIME :12:02:01 12:32:21 30.3 (min) Purpose : 3  
 LOG : 9965.83 9967.40 1.6 Region : 6000  
 FDEPTH: 157 157 Gear cond.: 0  
 BDEPTH: 157 157 Validity : 0  
 Towing dir: 0° Wire out : 400 m Speed : 3.1 km  
 Sorted : 42 Total catch: 1205.37 Catch/hour: 2383.72

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Yellow sponges	652.60	0	27.38	
Pterygosquilla armata capensis	527.03	37645	22.11	
Merluccius capensis	269.94	3148	11.32	2024
JELLYFISH	244.23	0	10.25	
Lampanyctodes hectoris	199.24	33208	8.36	
Merluccius paradoxus	102.83	1993	4.31	2025
Todaropsis eblanae	94.48	2891	3.96	2027
Lepidopus caudatus	64.91	2705	2.72	
Lophius vomerinus	40.49	194	1.70	2029
Exodromidia sp.	28.32	2225	1.21	
Callorhynchus capensis	28.00	10	1.17	
Octopus vulgaris	27.64	63	1.16	
Sepia australis	23.78	1222	1.00	
Starfish	13.50	0	0.57	
Thyrssites atun	9.29	2	0.39	2020
Helicolenus dactylopterus	8.48	451	0.36	2028
Cynoglossus zanzibarensis	8.29	194	0.35	2026
Paracallionymus costatus	8.16	965	0.34	
Octopus magnificus	7.91	2	0.33	
G A S T R O P O D S	4.76	194	0.20	
Brama brama	4.15	2	0.17	2021
Lolligoncula mercatoris	2.83	1414	0.12	
Genypterus capensis	2.47	10	0.10	2018
Chelidonichthys capensis	2.47	10	0.10	2019
Sepia hieronis	1.99	63	0.08	
Parapagurus dimorphus	1.61	194	0.07	
Macropipus australis	1.22	63	0.05	
Jasus lalandii	1.20	14	0.05	2022
Physiculus capensis	0.83	63	0.04	
Jasus lalandii	0.44	4	0.02	2023
Maurollicus muelleri	0.00	0	0.00	
Total	2383.72		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 207  
 DATE :18/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 30°25.26  
 start stop duration Lon E 17°14.99  
 TIME :14:17:00 14:40:36 23.6 (min) Purpose : 3  
 LOG : 9980.11 9981.26 1.2 Region : 6000  
 FDEPTH: 122 124 Gear cond.: 0  
 BDEPTH: 122 124 Validity : 0  
 Towing dir: 0° Wire out : 330 m Speed : 2.9 km  
 Sorted : 30 Total catch: 900.00 Catch/hour: 2289.11

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Pterygosquilla armata capensis	2161.93	24020	94.44	
JELLYFISH	127.17	0	5.56	
Total	2289.11		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 208  
 DATE :18/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 30°14.02  
 start stop duration Lon E 17°11.34  
 TIME :16:06:31 16:36:28 30.0 (min) Purpose : 3  
 LOG : 9993.53 9995.01 1.5 Region : 6000  
 FDEPTH: 107 109 Gear cond.: 0  
 BDEPTH: 107 109 Validity : 0  
 Towing dir: 0° Wire out : 275 m Speed : 3.0 km  
 Sorted : 451 Total catch: 450.51 Catch/hour: 902.21

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Pterygosquilla armata capensis	540.72	0	59.93	
JELLYFISH	360.48	0	39.96	
Todaropsis eblanae	1.00	0	0.11	
Merluccius capensis	0.01	2	0.00	2030
Cynoglossus zanzibarensis	0.00	2	0.00	
Total	902.21		100.00	



R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 209  
 DATE :19/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 30°13.46  
 start stop duration Purpose : 3  
 LOG : 04:29:40 04:59:35 29.9 (min) Region : 6000  
 FDEPTH: 150 149 1.6 Gear cond.: 0  
 BDEPTH: 150 149 Validity : 0  
 Towing dir: 0° Wire out : 395 m Speed : 3.2 km  
 Sorted : 48 Total catch: 1830.71 Catch/hour: 3669.98  
 SPECIES CATCH/HOUR % OF TOT. C SAMP

SPECIES	weight	numbers	% OF TOT. C	SAMP
Yellow sponges	3512.20	0	95.70	
Merluccius capensis	72.97	838	1.99	2037
Merluccius paradoxus	33.08	597	0.90	2036
Callorhynchus capensis	20.05	10	0.55	
Lepidopus caudatus	4.57	188	0.12	
Chelidonichthys capensis	4.57	16	0.12	2032
Jasus lalandii	4.01	12	0.11	2038
Sepia australis	3.21	146	0.09	
E C H I N O D E R M A T A	2.17	48	0.06	
Jasus lalandii	2.00	8	0.05	2039
Lophius vomerinus	1.72	16	0.05	2034
Congiopodus spinifer	1.44	4	0.04	
Dromidia sp.	1.32	112	0.04	
Genypteris capensis	1.28	16	0.03	2031
Octopus vulgaris	1.20	4	0.03	
Cynoglossus zanzibarensis	0.96	24	0.03	2033
Molluscs	0.73	20	0.02	
Solenocera africana	0.51	48	0.01	
Sepia hieronis	0.43	8	0.01	
Paracallionymus costatus	0.40	66	0.01	
Lycoteuthis lorigera	0.31	20	0.01	
Macropipus australis	0.30	8	0.01	
Pterygosquilla armata capensis	0.25	36	0.01	
Starfish	0.15	20	0.00	
Etrumeus whiteheadi	0.05	4	0.00	
Helicolenus dactylopterus	0.05	4	0.00	2035
Lolligoncula mercatoris	0.04	20	0.00	
Total	3669.98		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 210  
 DATE :19/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 30°15.67  
 start stop duration Purpose : 3  
 LOG : 06:45:14 07:14:52 29.6 (min) Region : 6000  
 FDEPTH: 187 188 Gear cond.: 0  
 BDEPTH: 187 188 Validity : 0  
 Towing dir: 0° Wire out : 480 m Speed : 2.8 km  
 Sorted : 103 Total catch: 269.53 Catch/hour: 545.60  
 SPECIES CATCH/HOUR % OF TOT. C SAMP

SPECIES	weight	numbers	% OF TOT. C	SAMP
Merluccius paradoxus	227.73	5524	41.74	2044
JELLYFISH	60.73	0	11.13	
Lophius vomerinus	47.98	338	8.79	2040
Heart urchin	46.15	1318	8.46	
Helicolenus dactylopterus	32.39	1425	5.94	2043
Merluccius capensis	29.35	71	5.38	2045
Yellow sponges	18.22	0	3.34	
Paracallionymus costatus	14.90	1241	2.73	
Raja straeleni	13.72	8	2.52	
Sepia australis	10.12	532	1.86	
Holohalaelurus regani	4.94	162	0.91	
Pterygosquilla armata capensis	4.53	413	0.83	
Todaropsis eblanae	4.45	81	0.82	2046
Sepia hieronis	3.97	162	0.73	
Parapagurus dimorphus	3.64	202	0.67	
Genypteris capensis	2.83	24	0.52	2041
Caelorinchus simorhynchus	2.43	105	0.45	
Etrumeus whiteheadi	2.35	49	0.43	
Todaropsis eblanae	2.35	65	0.43	2047
Cynoglossus zanzibarensis	2.27	57	0.42	2051
G A S T R O P O D S	2.01	32	0.37	
Todaropsis eblanae	1.46	113	0.27	2048
Exodromidia sp.	1.39	97	0.26	
Macropipus australis	1.13	32	0.21	
Todarodes angolensis	1.01	2	0.19	2042
Lampyctodes hectoris	0.81	0	0.15	
Maurollicus muelleri	0.81	0	0.15	
Starfish	0.78	89	0.14	
Mursia cristimanus	0.48	57	0.09	
Merluccius paradoxus	0.32	65	0.06	2050
Rossia enigmatica	0.21	16	0.04	
Lolligoncula mercatoris	0.06	32	0.01	
Lophius vomerinus	0.06	8	0.01	2049
Total	545.60		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 211  
 DATE :19/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 30°25.29  
 start stop duration Purpose : 3  
 LOG : 09:24:50 09:50:30 25.7 (min) Region : 6000  
 FDEPTH: 210 213 Gear cond.: 0  
 BDEPTH: 210 213 Validity : 0  
 Towing dir: 0° Wire out : 540 m Speed : 3.3 km  
 Sorted : 130 Total catch: 557.58 Catch/hour: 1303.26  
 SPECIES CATCH/HOUR % OF TOT. C SAMP

SPECIES	weight	numbers	% OF TOT. C	SAMP
Merluccius paradoxus	617.06	12781	47.35	2058
URCHINS	205.69	0	15.78	
Paracallionymus costatus	71.06	5921	5.45	
Merluccius capensis	63.11	98	4.84	2057
Brama brama	62.41	30	4.79	2053
Lophius vomerinus	55.16	262	4.23	2059
Helicolenus dactylopterus	51.98	2468	3.99	2060
Etrumeus whiteheadi	46.75	755	3.59	
ANTHOZOA (Sea anemones)	33.28	486	2.55	
Callorhynchus capensis	14.26	5	1.09	
Caelorinchus simorhynchus	12.53	262	0.96	
Cynoglossus zanzibarensis	12.15	374	0.93	2061
JELLYFISH	11.22	0	0.86	
Yellow sponges	9.72	0	0.75	
Genypteris capensis	6.08	42	0.47	2054
Parapagurus dimorphus	5.80	467	0.44	
Raja straeleni	4.67	5	0.36	
Chelidonichthys capensis	4.44	9	0.34	2055
Todaropsis eblanae	3.46	93	0.27	2062
Thyrssites atun	2.34	2	0.18	2052
Sardinops ocellatus	1.87	19	0.14	
Merluccius paradoxus	1.64	7	0.13	2056
Raja wallacei	1.52	2	0.12	
Sepia hieronis	1.44	93	0.11	
Snail	1.05	19	0.08	
Mursia cristimanus	0.86	56	0.07	
Merluccius paradoxus	0.52	93	0.04	2063
Rossia enigmatica	0.32	56	0.02	
Lolligoncula mercatoris	0.22	75	0.02	
Oreosoma atlanticum, juvenile	0.13	19	0.01	
Starfish	0.11	19	0.01	
Sepia australis	0.11	37	0.01	
Exodromidia sp.	0.11	19	0.01	
Stoloteuthis sp.	0.09	75	0.01	
Pterygosquilla armata capensis	0.09	150	0.01	
Maurollicus muelleri	0.00	0	0.00	
Total	1303.26		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 212  
 DATE :19/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 30°33.03  
 start stop duration Purpose : 3  
 LOG : 12:28:51 12:57:06 28.3 (min) Region : 6000  
 FDEPTH: 244 241 0.8 Gear cond.: 0  
 BDEPTH: 244 241 Validity : 0  
 Towing dir: 0° Wire out : 615 m Speed : 1.8 km  
 Sorted : 154 Total catch: 417.99 Catch/hour: 887.77  
 SPECIES CATCH/HOUR % OF TOT. C SAMP

SPECIES	weight	numbers	% OF TOT. C	SAMP
Merluccius paradoxus	403.54	6134	45.46	2074
Trachurus capensis	74.34	372	8.37	2066
Caelorinchus simorhynchus	59.68	818	6.72	
Lophius vomerinus	58.41	55	6.58	2065
Spatangus capensis	50.97	0	5.74	
Merluccius capensis	48.85	36	5.50	2072
Holohalaelurus regani	31.43	127	3.54	
Helicolenus dactylopterus	23.79	871	2.68	2073
Squalus mitsukurii	21.24	13	2.39	
Mustelus palumbes	18.69	2	2.11	
Merluccius capensis	16.99	11	1.91	2071
Etrumeus whiteheadi	14.23	191	1.60	
Zeus capensis	9.98	106	1.12	2076
Brama brama	8.50	4	0.96	2064
Todaropsis eblanae	6.16	170	0.69	2078
Cynoglossus zanzibarensis	5.95	127	0.67	2075
Paracallionymus costatus	5.10	637	0.57	
Chelidonichthys capensis	4.46	4	0.50	2067
Callorhynchus capensis	3.61	2	0.41	
Raja wallacei	3.08	2	0.35	
Todaropsis eblanae	2.97	42	0.33	2077
Octopus vulgaris	2.12	21	0.24	
Genypteris capensis	2.12	8	0.24	2069
Starfish	1.74	127	0.20	
Chelidonichthys queketti	1.70	0	0.19	2068
Todaropsis eblanae	1.70	127	0.19	2080
Lepidopus caudatus	1.49	2	0.17	
Snail	1.32	21	0.15	
Merluccius paradoxus	1.06	2	0.12	2070
G A S T R O P O D S	0.85	64	0.10	
ANTHOZOA (Sea anemones)	0.53	21	0.06	
Congiopodus spinifer	0.53	2	0.06	
Sepia typica	0.38	64	0.04	
Rossia enigmatica	0.13	85	0.01	
Lolligoncula mercatoris	0.06	21	0.01	
Merluccius paradoxus	0.06	21	0.01	2079
Maurollicus muelleri	0.00	0	0.00	
Total	887.77		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 213  
 DATE :19/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 30°41.38  
 start stop duration Purpose : 3  
 LOG : 15:20:29 15:50:28 30.0 (min) Region : 6000  
 FDEPTH: 79.04 80.80 1.8 Gear cond.: 0  
 BDEPTH: 208 207 Validity : 0  
 Towing dir: 0° Wire out : 560 m Speed : 3.5 km  
 Sorted : 574 Total catch: 687.72 Catch/hour: 1376.81  
 SPECIES CATCH/HOUR % OF TOT. C SAMP

SPECIES	weight	numbers	% OF TOT. C	SAMP
Lepidopus caudatus	820.82	785	59.62	
Emmelichthys nitidus	220.22	3059	15.99	
Zeus capensis	90.09	515	6.54	2081
Squalus megalops	54.05	108	3.93	
Merluccius capensis	52.05	56	3.78	2086
Lophius vomerinus	52.05	56	3.78	2082
Helicolenus dactylopterus	22.32	220	1.62	2087
Spatangus capensis	16.02	0	1.16	
Starfish	16.02	0	1.16	
Thyrssites atun	12.81	24	0.93	2083
Chelidonichthys queketti	4.00	20	0.29	2084
Cynoglossus zanzibarensis	3.80	40	0.28	2088
Raja straeleni	3.10	6	0.23	
Todaropsis eblanae	2.23	40	0.16	2089
Congiopodus spinifer	1.50	8	0.11	
Raja wallacei	1.10	10	0.08	0
G A S T R O P O D S	0.97	20	0.07	
Chelidonichthys capensis	0.90	2	0.07	2085
Raja wallacei	0.70	2	0.05	
Sebastes capensis	0.70	2	0.05	
Caelorinchus simorhynchus	0.46	10	0.03	
Arnoglossus capensis	0.30	30	0.02	
Paracallionymus costatus	0.15	20	0.01	
Rochinia sp.	0.12	20	0.01	
Champsodon capensis	0.11	10	0.01	
Notopogon xenosoma	0.09	10	0.01	
Parapagurus dimorphus	0.05	30	0.00	
Lolligoncula mercatoris	0.05	20	0.00	
Total	1376.81		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 214  
 DATE :20/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 30°54.14  
 Lon E 15°30.51  
 start stop duration Purpose : 3  
 TIME :04:36:32 05:06:51 30.3 (min) Region : 6000  
 LOG : 119.22 120.74 1.5 Gear cond.: 0  
 FDEPTH: 552 553 Validity : 0  
 BDEPTH: 552 553 Speed : 3.0 km  
 Towing dir: 0° Wire out : 1390 m Catch/hour: 297.33  
 Sorted : 150 Total catch: 150.25  
 SPECIES CATCH/HOUR % OF TOT. C SAMP

weight	numbers			
Raja leopardus	89.05	89	29.95	
Chaceon sp.	39.58	439	13.31	2091
Merluccius paradoxus	30.67	24	10.32	
ANTHOZOA (Sea anemones)	27.70	0	9.32	
Cruriraja parcomaculata	25.73	55	8.65	
Starfish - rough	19.79	5145	6.66	
Lophius vomerinus	11.87	8	3.99	2093
Nezumia sp.	11.87	198	3.99	
Funchalia woodwardi	5.15	429	1.73	
Todarodes angolensis	5.05	4	1.70	2094
Hydrolagus sp.	4.85	8	1.63	
Selachophidium guentheri	4.69	57	1.58	
Merluccius paradoxus	3.96	6	1.33	2090
Caelorinchus braueri	2.89	121	0.97	
Bristle worms (straws)	2.37	0	0.80	
Photichthys argenteus	2.32	77	0.78	
Helicolenus dactylopterus	2.18	10	0.73	2092
Etmopterus brachyurus	1.42	42	0.48	
Deania profundorum	1.09	2	0.37	
Malacocephalus laevis	0.74	10	0.25	
Bassanago albescens	0.57	4	0.19	
Notacanthus sexspinis	0.55	20	0.19	
Trachyrincus scabrus	0.55	2	0.19	
Myxine capensis	0.53	12	0.18	
Anemones, white	0.40	4	0.13	
Psychrolutes macrocephalus	0.36	2	0.12	
Psychrolutes inermis	0.32	2	0.11	
Physiculus capensis	0.28	10	0.10	
Synaphobranchus kaupii	0.28	2	0.09	
Diaphus sp.	0.12	4	0.04	
Lycoteuthis lorigera	0.09	2	0.03	
PARALEPIDIDAE	0.08	6	0.03	
G A S T R O P O D S	0.07	6	0.02	
Parapagurus pilosimanus	0.07	6	0.02	
Symbolophorus boops	0.03	2	0.01	
Shark eggs	0.02	2	0.01	
Champsodon capensis	0.02	2	0.01	
Lucigadus ori	0.01	2	0.00	
ISOPODS	0.01	4	0.00	
MORIDAE, juvenile	0.01	2	0.00	
MYCTOPHIDAE	0.01	2	0.00	
Sepia typica	0.00	2	0.00	
Total	297.33		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 215  
 DATE :20/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 30°52.27  
 Lon E 15°31.49  
 start stop duration Purpose : 3  
 TIME :06:27:59 06:58:00 30.0 (min) Region : 6000  
 LOG : 126.29 127.78 1.5 Gear cond.: 0  
 FDEPTH: 467 460 Validity : 0  
 BDEPTH: 467 460 Speed : 3.0 km  
 Towing dir: 0° Wire out : 1170 m Catch/hour: 1686.20  
 Sorted : 577 Total catch: 843.66  
 SPECIES CATCH/HOUR % OF TOT. C SAMP

weight	numbers			
Merluccius paradoxus	393.74	364	23.35	2100
Starfish	351.77	117256	20.86	
Merluccius paradoxus	345.77	803	20.51	2096
Notacanthus sexspinis	208.86	2456	12.39	
Genypterus capensis	111.93	40	6.64	2095
Merluccius paradoxus	85.94	104	5.10	2099
Raja leopardus	59.96	64	3.56	
Cruriraja parcomaculata	25.98	36	1.54	
Raja dissimilis	19.99	12	1.19	
Hydrolagus sp.	19.99	6	1.19	
Lophius vomerinus	11.39	8	0.68	2098
Todarodes angolensis	8.39	6	0.50	2097
Chaceon sp.	8.35	110	0.50	
Merluccius capensis	7.40	2	0.44	2101
Torpedo nobiliana	5.70	2	0.34	
Photichthys argenteus	3.74	132	0.22	
Caelorinchus braueri	3.30	660	0.20	
Squalus mitsukurii	3.20	2	0.19	
Funchalia woodwardi	1.54	176	0.09	
Caelorinchus simorhynchus	1.52	44	0.09	
Selachophidium guentheri	1.45	22	0.09	
Tripterygiopsis gilchristi	1.41	44	0.08	
Physiculus capensis	1.32	110	0.08	
Rossia enigmatica	0.84	44	0.05	
Lucigadus ori	0.77	132	0.05	
Raja leopardus, juvenile	0.57	88	0.03	
Shark eggs	0.44	22	0.03	
Paracallionymus costatus	0.33	66	0.02	
Lycoteuthis lorigera	0.31	22	0.02	
Symbolophorus boops	0.18	22	0.01	
Stereomastis sp.	0.13	22	0.01	
Paraliparis australis	0.02	22	0.00	
Total	1686.20		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 216  
 DATE :20/02/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 30°42.33  
 Lon E 15°19.72  
 start stop duration Purpose : 3  
 TIME :09:18:41 09:48:44 30.1 (min) Region : 6000  
 LOG : 141.32 142.73 1.4 Gear cond.: 0  
 FDEPTH: 600 603 Validity : 0  
 BDEPTH: 600 603 Speed : 2.8 km  
 Towing dir: 0° Wire out : 1400 m Catch/hour: 318.24  
 Sorted : 159 Total catch: 159.38  
 SPECIES CATCH/HOUR % OF TOT. C SAMP

weight	numbers			
Merluccius paradoxus	97.84	80	30.74	2104
Ruvettus pretiosus	69.88	2	21.96	2102
Caelorinchus braueri	38.54	583	12.11	
Nezumia sp.	20.57	298	6.46	
Selachophidium guentheri	13.78	138	4.33	
Merluccius paradoxus	10.98	16	3.45	2103
Cruriraja parcomaculata	8.99	26	2.82	
Photichthys argenteus	7.99	222	2.51	
Notacanthus sexspinis	7.99	128	2.51	
Helicolenus dactylopterus	6.99	16	2.20	2105
Raja leopardus	6.19	12	1.95	
Funchalia woodwardi	4.99	200	1.57	
Lophius vomerinus	4.99	6	1.57	2106
Todarodes angolensis	4.39	4	1.38	2107
Hydrolagus sp.	3.59	4	1.13	
Plesionika martia	3.29	549	1.04	
Todarodes angolensis	1.20	2	0.38	2108
Caelorinchus matamua	0.98	6	0.31	
Chaceon sp.	0.98	10	0.31	
Malacocephalus laevis	0.86	10	0.27	
Psychrolutes macrocephalus	0.77	10	0.24	
Anemones, pink	0.76	2	0.24	
Bassanago albescens	0.46	2	0.14	
Lycoteuthis lorigera	0.38	12	0.12	

Symbolophorus boops	0.21	18	0.07	
Etmopterus brachyurus	0.20	16	0.06	
Tripterygiopsis gilchristi	0.14	4	0.05	
Plesionema edwardsianus	0.08	2	0.03	
Howella sherboni	0.03	2	0.01	
Diaphus sp.	0.03	2	0.01	0
Lucigadus ori	0.03	10	0.01	
Euphausiacea	0.03	26	0.01	
Lampanyctus sp.	0.03	2	0.01	
Diaphus sp.	0.02	6	0.01	
PARALEPIDIDAE	0.02	4	0.01	
Halosaurus ovenii	0.02	2	0.01	
Argyropelecus aculeatus	0.01	4	0.00	
MYCTOPHIDAE	0.01	2	0.00	
Electrona risso	0.00	2	0.00	
Total	318.24		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 217  
 DATE :20/02/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 30°41.14  
 Lon E 15°23.58  
 start stop duration Purpose : 3  
 TIME :11:21:48 11:41:19 19.5 (min) Region : 6000  
 LOG : 149.07 150.01 0.9 Gear cond.: 0  
 FDEPTH: 393 396 Validity : 0  
 BDEPTH: 393 396 Speed : 2.9 km  
 Towing dir: 0° Wire out : 990 m Catch/hour: 8204.39  
 Sorted : 2669 Total catch: 2669.16  
 SPECIES CATCH/HOUR % OF TOT. C SAMP

weight	numbers			
Notacanthus sexspinis	7745.90	124933	94.41	
Merluccius paradoxus	230.53	507	2.81	2110
Genypterus capensis	119.88	77	1.46	2109
Lophius vomerinus	33.81	15	0.41	2114
Helicolenus dactylopterus	20.90	55	0.25	2112
Merluccius capensis	18.44	6	0.22	2111
Cruriraja parcomaculata	8.15	15	0.10	
Malacocephalus laevis	6.61	9	0.08	
Thyrsites atun	6.15	3	0.07	2113
Ruvettus pretiosus	4.99	5	0.07	
Todarodes angolensis	4.00	3	0.05	2115
Scyliorhinus capensis	2.31	3	0.03	
Caelorinchus simorhynchus	1.72	12	0.02	
Total	8204.39		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 218  
 DATE :20/02/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 30°39.17  
 Lon E 15°23.82  
 start stop duration Purpose : 3  
 TIME :13:12:17 13:36:45 24.5 (min) Region : 6000  
 LOG : 153.66 154.36 0.7 Gear cond.: 0  
 FDEPTH: 343 344 Validity : 0  
 BDEPTH: 343 344 Speed : 1.7 km  
 Towing dir: 0° Wire out : 860 m Catch/hour: 872.16  
 Sorted : 356 Total catch: 355.70  
 SPECIES CATCH/HOUR % OF TOT. C SAMP

weight	numbers			
Brama brama	269.72	177	30.93	2116
Merluccius paradoxus	161.83	775	18.56	2123
Caelorinchus simorhynchus	98.08	1886	11.25	
Zeus capensis	63.75	103	7.31	2120
Merluccius paradoxus	57.62	59	6.61	2122
Merluccius paradoxus	41.19	61	4.72	2121
Epigonus sp.	26.97	657	3.09	
Genypterus capensis	25.75	20	2.95	2118
Merluccius capensis	22.56	7	2.59	2126
Helicolenus dactylopterus	22.07	118	2.53	2125
Malacocephalus laevis	13.00	54	1.49	
Lophius vomerinus	12.51	7	1.43	2119
Squalus mitsukurii	12.01	10	1.38	
Notacanthus sexspinis	10.30	56	1.18	
Scyliorhinus capensis	9.81	15	1.12	
Todarodes angolensis	5.39	5	0.62	2124
Dead coral	4.90	0	0.56	
Thyrsites atun	4.78	2	0.55	2117
Holohalaelurus regani	4.29	10	0.49	
Symbolophorus boops	1.96	120	0.22	
Todaropsis eblanae	0.91	7	0.10	2127
Todaropsis eblanae	0.83	17	0.10	2128
Rossia enigmatica	0.49	20	0.06	
G A S T R O P O D S	0.31	12	0.04	
Lampanyctodes hectoris	0.29	108	0.03	
Paracallionymus costatus	0.26	34	0.03	
Notopogon macrosolen	0.23	2	0.03	
Cynoglossus zanzibarensis	0.14	2	0.02	2129
Physiculus capensis	0.07	2	0.01	
Maurollicus muelleri	0.06	44	0.01	
Parapagurus dimorphus	0.03	2	0.00	
Starfish	0.01	2	0.00	
Pterygosquilla armata capensis	0.01	2	0.00	
Bristle worms	0.01	5	0.00	
Shark eggs	0.01	5	0.00	
Total	872.16		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 219  
 DATE :20/02/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 30°30.79  
 Lon E 15°24.52  
 start stop duration Purpose : 3  
 TIME :15:23:03 15:53:04 30.0 (min) Region : 6000  
 LOG : 165.90 167.36 1.5 Gear cond.: 0  
 FDEPTH: 301 302 Validity : 0  
 BDEPTH: 301 302 Speed : 2.9 km  
 Towing dir: 0° Wire out : 765 m Catch/hour: 2307.52  
 Sorted : 623 Total catch: 1154.14  
 SPECIES CATCH/HOUR % OF TOT. C SAMP

weight	numbers			
Merluccius paradoxus	1251.58	9553	54.24	2130
Zeus capensis	319.89	512	13.86	2131
Merluccius paradoxus	103.97	100	4.51	2140
Brama brama	89.97	90	3.90	2132
Malacocephalus laevis	75.97	542	3.29	
Helicolenus dactylopterus	63.98	520	2.77	2133
Epigonus denticulatus	59.98	1016	2.60	
Caelorinchus simorhynchus	51.98	490	2.25	
Merluccius paradoxus	47.98	56	2.08	2139
Merluccius capensis	47.98	20	2.08	2141
Lophius vomerinus	43.99	36	1.91	2136
Holohalaelurus regani	35.99	0	1.56	
Todaropsis eblanae	24.19	196	1.05	2144
Thyrsites atun	21.19	14	0.92	2134
Genypterus capensis	17.19	18	0.75	2135
Todaropsis eblanae	15.39	132	0.67	2143
Squalus acanthias	9.60	8	0.42	
Raja straeleni	5.60	4	0.24	
Todarodes angolensis	4.60	8	0.20	2137
Trachurus capensis	4.00	8	0.17	2142
JELLYFISH	3.20	0	0.14	
Todarodes angolensis	3.20	4	0.14	2138
Scyliorhinus capensis	2.40	4	0.10	
Symbolophorus boops	1.72	136	0.07	
Cynoglossus zanzibarensis	0.61	20	0.03	2145
Maurollicus muelleri	0.40	0	0.02	
Rossia enigmatica	0.39	12	0.02	
Paracallionymus costatus	0.29	32	0.01	
Lampanyctodes hectoris	0.20	0	0.01	
Starfish	0.04	8	0.00	
Pterygosquilla armata capensis	0.04	8	0.00	
Total	2307.52		100.00	

R/V Dr. Fridtjof Nansen		SURVEY:2010401		STATION: 220	
DATE	:21/02/2010	GEAR TYPE: BT NO:	22	POSITION:Lat	S 30°19.17
start	stop	duration		Lon	E 15°58.21
TIME	:04:36:23	04:57:17	20.9 (min)	Purpose	: 3
LOG	: 211.65	212.69	1.0	Region	: 6000
FDEPTH:	228	222		Gear cond.:	0
BDEPTH:	228	222		Validity	: 0
Towing dir:	0°	Wire out	: 580 m	Speed	: 3.0 km
Sorted	: 75	Total catch:	147.75	Catch/hour:	424.16
SPECIES	CATCH/HOUR		% OF TOT. C	SAMP	
	weight	numbers			
Lophius vomerinus	60.29	49	14.21	2158	
Etrumeus whiteheadi	51.24	732	12.08		
Helicolenus dactylopterus	40.19	643	9.48	2155	
Trachurus capensis	39.62	253	9.34	2150	
Starfish	28.54	0	6.73		
Caelorinchus simorhynchus	28.13	347	6.63		
ANTHOZOA (Sea anemones)	21.50	0	5.07		
Merluccius paradoxus	21.10	261	4.97	2154	
URCHINS	20.10	0	4.74		
Zeus capensis	17.08	172	4.03	2152	
Merluccius paradoxus	13.97	4869	3.29	2156	
JELLYFISH	12.06	0	2.84		
PORIFERA (Sponges)	10.05	0	2.37		
Thyrssites atun	9.47	9	2.23	2146	
Cynoglossus zanzibarensis	7.03	149	1.66	2153	
Todaropsis eblanae	6.23	230	1.47	2157	
Todarodes angolensis	6.03	6	1.42	2149	
Genypterus capensis	5.74	23	1.35	2148	
Squalus megalops	4.59	3	1.08		
Sepia australis	4.02	402	0.95		
Chelidonichthys capensis	4.02	6	0.95	2147	
Emmelichthys nitidus	3.52	29	0.83		
Pterygosquilla armata capensis	3.22	643	0.76		
Paracallionymus costatus	2.91	485	0.69		
Chelidonichthys queketti	1.29	6	0.30	2151	
Sepia hieronisi	0.54	11	0.13		
Macropipus australis	0.36	11	0.09		
Rossia enigmatica	0.33	29	0.08		
Sepia typica	0.29	60	0.07		
Stoloteuthis sp.	0.26	141	0.06		
Lolligoncula mercatoris	0.13	60	0.03		
Mursia cristimanus	0.09	11	0.02		
Parapagurus dimorphus	0.08	11	0.02		
Exodromidia sp.	0.07	11	0.02		
Physiculus capensis	0.06	11	0.01		
Total	424.16		100.00		

R/V Dr. Fridtjof Nansen		SURVEY:2010401		STATION: 221	
DATE	:21/02/2010	GEAR TYPE: BT NO:	22	POSITION:Lat	S 30°15.49
start	stop	duration		Lon	E 16°5.90
TIME	:06:20:29	06:51:10	30.7 (min)	Purpose	: 3
LOG	: 220.72	222.29	1.6	Region	: 6000
FDEPTH:	217	213		Gear cond.:	0
BDEPTH:	217	213		Validity	: 0
Towing dir:	0°	Wire out	: 550 m	Speed	: 3.1 km
Sorted	: 114	Total catch:	377.89	Catch/hour:	739.03
SPECIES	CATCH/HOUR		% OF TOT. C	SAMP	
	weight	numbers			
Trachurus capensis	234.68	1267	31.76	2168	
Emmelichthys nitidus	117.34	235	15.88		
URCHINS	58.67	0	7.94		
Lophius vomerinus	44.98	57	6.09	2164	
Sepia australis	31.68	3520	4.29		
Etrumeus whiteheadi	31.10	450	4.21		
Paracallionymus costatus	23.70	3385	3.21		
Merluccius paradoxus	21.47	422	2.91	2170	
Helicolenus dactylopterus	20.89	845	2.83	2169	
Merluccius paradoxus	15.72	2699	2.13	2172	
Todaropsis eblanae	15.37	258	2.08	2173	
Thyrssites atun	14.08	20	1.91	2162	
Holohalaelurus regani	13.73	47	1.86		
Chelidonichthys capensis	12.13	18	1.64	2159	
Brama brama	9.78	6	1.32	2163	
Mustelus palumbes	9.29	4	1.26		
Cynoglossus zanzibarensis	8.45	223	1.14	2171	
Merluccius capensis	8.21	8	1.11	2167	
Todaropsis eblanae	7.98	141	1.08	2174	
Genypterus capensis	4.69	12	0.64	2165	
Todarodes angolensis	4.69	4	0.64	2161	
Raja straeleni	4.30	2	0.58		
Merluccius capensis	4.11	4	0.56	2166	
Starfish	3.87	0	0.52		
Chelidonichthys queketti	2.84	16	0.38	2160	
Zeus capensis	2.49	35	0.34	2176	
Pterygosquilla armata capensis	2.03	340	0.27		
Anemones, red	1.94	106	0.26		
Caelorinchus simorhynchus	1.76	47	0.24		
Todaropsis eblanae	1.76	188	0.24	2175	
Lolligoncula mercatoris	1.06	47	0.14		
G A S T R O P O D S	0.90	82	0.12		
JELLYFISH	0.82	12	0.11		
Mauroliticus muelleri	0.59	0	0.08		
Rossia enigmatica	0.42	23	0.06		
Sepia typica	0.35	82	0.05		
Mursia cristimanus	0.35	23	0.05		
Snail	0.34	106	0.05		
Exodromidia sp.	0.20	23	0.03		
Congio podus spinifer	0.16	12	0.02		
Chelidonichthys queketti	0.09	12	0.01	2177	
Stoloteuthis sp.	0.01	35	0.00		
Total	739.03		100.00		

R/V Dr. Fridtjof Nansen		SURVEY:2010401		STATION: 222	
DATE	:21/02/2010	GEAR TYPE: BT NO:	22	POSITION:Lat	S 30°8.80
start	stop	duration		Lon	E 16°20.69
TIME	:08:57:37	09:28:04	30.5 (min)	Purpose	: 3
LOG	: 238.37	239.98	1.6	Region	: 6000
FDEPTH:	190	188		Gear cond.:	0
BDEPTH:	190	188		Validity	: 0
Towing dir:	0°	Wire out	: 500 m	Speed	: 3.2 km
Sorted	: 128	Total catch:	333.54	Catch/hour:	657.21
SPECIES	CATCH/HOUR		% OF TOT. C	SAMP	
	weight	numbers			
Chelidonichthys capensis	195.47	426	29.74	2187	
Etrumeus whiteheadi	100.89	1681	15.35		
Merluccius capensis	67.00	89	10.19	2184	
Paracallionymus costatus	52.97	6621	8.06		
Helicolenus dactylopterus	51.23	2207	7.80	2186	
Merluccius capensis	29.56	53	4.50	2183	
Lophius vomerinus	25.62	57	3.90	2182	
Callorhynchus capensis	22.86	8	3.48		
Thyrssites atun	14.78	16	2.25	2180	
Sepia australis	11.67	897	1.77		
Mustelus palumbes	10.25	2	1.56		
Merluccius paradoxus	8.99	1781	1.37	2189	
Brama brama	8.28	4	1.26	2178	
Anemones, red	8.04	142	1.22		
Cynoglossus zanzibarensis	7.09	95	1.08	2190	
Todaropsis eblanae	5.91	158	0.90	2193	

R/V Dr. Fridtjof Nansen		SURVEY:2010401		STATION: 223	
DATE	:21/02/2010	GEAR TYPE: BT NO:	22	POSITION:Lat	S 30°0.86
start	stop	duration		Lon	E 16°30.52
TIME	:11:09:51	11:39:22	29.5 (min)	Purpose	: 3
LOG	: 252.42	253.92	1.5	Region	: 6000
FDEPTH:	179	179		Gear cond.:	0
BDEPTH:	179	179		Validity	: 0
Towing dir:	0°	Wire out	: 460 m	Speed	: 3.0 km
Sorted	: 149	Total catch:	410.54	Catch/hour:	834.43
SPECIES	CATCH/HOUR		% OF TOT. C	SAMP	
	weight	numbers			
URCHINS	317.07	0	38.00		
Merluccius capensis	103.66	195	12.42	2199	
Merluccius paradoxus	95.12	2246	11.40	2200	
Paracallionymus costatus	49.15	4467	5.89		
Lophius vomerinus	48.78	234	5.85	2196	
Lepidopus caudatus	46.75	26	5.60		
Etrumeus whiteheadi	44.39	1169	5.32		
Helicolenus dactylopterus	16.38	1348	1.96	2202	
Raja pullo punctata	15.85	2	1.90		
Callorhynchus capensis	15.45	6	1.85		
FDEPTH:	12.95	1177	1.55		
Sepia australis	11.18	4	1.34		
Raja straeleni	10.83	53	1.30		
Thyrssites atun	8.94	6	1.07	2194	
Sardinops ocellatus	8.72	132	1.04		
Todaropsis eblanae	8.30	264	0.99	2204	
Cynoglossus zanzibarensis	5.55	159	0.66	2201	
Holohalaelurus regani	4.23	132	0.51		
Chelidonichthys capensis	2.44	6	0.29	2197	
Merluccius paradoxus	2.24	14	0.27	2198	
Sepia hieronisi	2.11	53	0.25		
Genypterus capensis	1.83	10	0.22	2195	
Pterygosquilla armata capensis	0.98	106	0.12		
Lolligoncula mercatoris	0.90	396	0.11		
Jasus lalandii	0.58	4	0.07	2203	
Caelorinchus simorhynchus	0.05	26	0.01		
Total	834.43		100.00		

R/V Dr. Fridtjof Nansen		SURVEY:2010401		STATION: 224	
DATE	:21/02/2010	GEAR TYPE: BT NO:	22	POSITION:Lat	S 29°54.75
start	stop	duration		Lon	E 16°40.33
TIME	:13:22:06	13:52:19	30.2 (min)	Purpose	: 3
LOG	: 265.81	267.35	1.5	Region	: 6000
FDEPTH:	158	158		Gear cond.:	0
BDEPTH:	158	158		Validity	: 0
Towing dir:	0°	Wire out	: 420 m	Speed	: 3.1 km
Sorted	: 69	Total catch:	210.97	Catch/hour:	418.87
SPECIES	CATCH/HOUR		% OF TOT. C	SAMP	
	weight	numbers			
Lampyctodes hectoris	158.08	158083	37.74		
JELLYFISH	32.06	0	7.65		
Pterygosquilla armata capensis	30.28	10094	7.23		
CYPRAEIDAE (Bulia)	29.39	44	7.02		
Merluccius capensis	27.80	208	6.64	2211	
Heart urchin	22.26	268	5.32		
Callorhynchus capensis	17.27	8	4.12		
Lepidopus caudatus	14.89	784	3.55		
Raja straeleni	9.73	4	2.32		
Octopus vulgaris	8.93	2	2.13		
Todaropsis eblanae	8.34	298	1.99	2212	
Todaropsis eblanae	7.57	490	1.81		
Chelidonichthys capensis	6.15	22	1.47	2205	
Sepia australis	4.92	214	1.18		
Lophius vomerinus	4.86	50	1.16	2207	
G A S T R O P O D S	4.77	1114	1.14		
Sepia hieronisi	4.73	139	1.13		
Helicolenus dactylopterus	4.57	345	1.09	2208	
Starfish	3.92	623	0.94		
Jasus lalandii	3.18	30	0.76	2214	
Cynoglossus zanzibarensis	3.02	83	0.72	2210	
Paracallionymus costatus	1.60	401	0.38	0	
Macropipus australis	1.55	54	0.37		
Lepidopus caudatus	1.20	133	0.29	0	
Jasus lalandii	1.19	10	0.28	2213	
Caelorinchus simorhynchus	1.07	44	0.26		
Sepia australis	0.94	89	0.22	0	
Genypterus capensis	0.91	20	0.22	2209	
Trachurus capensis	0.79				

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 225  
 DATE :22/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 29°36.30  
 start stop duration Purpose : 3  
 TIME :04:35:22 05:05:14 29.9 (min) Lon E 16°36.12  
 LOG : 321.04 322.51 1.5 Region : 6000  
 FDEPTH: 149 151 Gear cond.: 0  
 BDEPTH: 149 151 Validity : 0  
 Towing dir: 0° Wire out : 420 m Speed : 3.0 km  
 Sorted : 541 Total catch: 851.39 Catch/hour: 1710.20

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 228  
 DATE :22/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 29°56.38  
 start stop duration Purpose : 3  
 TIME :12:31:19 13:01:05 29.8 (min) Lon E 15°53.93  
 LOG : 367.19 367.97 0.8 Region : 6000  
 FDEPTH: 201 201 Gear cond.: 0  
 BDEPTH: 201 201 Validity : 0  
 Towing dir: 0° Wire out : 500 m Speed : 1.6 km  
 Sorted : 148 Total catch: 185.21 Catch/hour: 373.29

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Aequorea sp.	1004.35	0	58.73	
Lampanyctodes hectoris	331.44	165718	19.38	
Merluccius capensis	148.04	1834	8.66	2219
Pterygosquilla armata capensis	132.57	6313	7.75	
Yellow sponges	36.02	0	2.11	
Callorhynchus capensis	9.84	4	0.58	
Lophius vomerinus	6.03	88	0.35	2218
Raja straeleni	5.62	2	0.33	
Lepidopus caudatus	5.30	155	0.31	
Cynoglossus zanzibarensis	4.13	44	0.24	2223
Solenocera africana	3.98	331	0.23	
Sepia australis	3.91	199	0.23	
Sepia hieronis	3.01	88	0.18	
Todaropsis eblanae	3.01	110	0.18	2222
Maurollicus muelleri	2.21	0	0.13	
Genypterus capensis	2.11	38	0.12	2215
Macropipus australis	1.70	44	0.10	
Starfish	1.19	155	0.07	
Exodromidia sp.	1.10	133	0.06	
Chelidonichthys capensis	1.10	4	0.06	2216
Helicolenus dactylopterus	0.97	88	0.06	2217
Jasus lalandii	0.64	6	0.04	2221
Caelorinchus simorhynchus	0.57	44	0.03	
Jasus lalandii	0.52	4	0.03	2220
Paracallionymus costatus	0.31	22	0.02	
G A S T R O P O D S	3.29	44	0.40	
Snail	0.11	22	0.01	
Sufflogobius bibarbatatus	0.11	22	0.01	
Total	1710.20		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Chelidonichthys capensis	54.42	119	14.58	2245
Merluccius capensis	44.34	52	11.88	2254
Galeorhinus galeus	36.28	2	9.72	2243
Callorhynchus capensis	30.84	12	8.26	
Sepia australis	28.12	2556	7.53	
URCHINS	27.66	0	7.41	
Lophius vomerinus	25.19	42	6.75	2247
Merluccius paradoxus	22.67	250	6.07	2255
Merluccius paradoxus	18.73	5266	5.02	2260
Thyrssites atun	14.51	24	3.89	2244
Paracallionymus costatus	12.29	2048	3.29	
Merluccius capensis	9.88	14	2.65	2253
Mustelus palumbes, female	8.06	2	2.16	
Cynoglossus zanzibarensis	4.08	87	1.09	2256
Holohalaelurus regani	3.54	18	0.95	
Helicolenus dactylopterus	3.43	212	0.92	2250
Todarodes angolensis	3.33	6	0.89	2252
Starfish	3.27	0	0.87	
Todaropsis eblanae	2.86	32	0.77	2258
Etrumeus whiteheadi	2.72	54	0.73	
Caelorinchus simorhynchus	2.72	36	0.73	
Brama brama	2.62	2	0.70	2249
Todaropsis eblanae	2.27	36	0.61	2257
Chelidonichthys queketti	1.61	12	0.43	2246
JELLYFISH	1.59	0	0.43	
Todaropsis eblanae	1.36	73	0.36	2259
Genypterus capensis	1.19	8	0.32	2248
G A S T R O P O D S	1.09	18	0.29	
Congiopodus spinifer	0.67	8	0.18	
Zeus capensis	0.48	4	0.13	2261
Trachurus capensis	0.40	2	0.11	2251
Lolligoncula mercatoris	0.29	141	0.08	
Mursia cristimanus	0.20	14	0.05	
Anemones, red	0.18	4	0.05	
Pterygosquilla armata capensis	0.14	14	0.04	
Sepia hieronis	0.09	4	0.02	
Parapagurus dimorphus	0.08	10	0.02	
Exodromidia sp.	0.07	4	0.02	
Arnoglossus capensis	0.02	4	0.01	
Goneplax angulata	0.02	4	0.00	
Total	373.29		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 226  
 DATE :22/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 29°42.30  
 start stop duration Purpose : 3  
 TIME :07:13:46 07:38:13 24.5 (min) Lon E 16°21.04  
 LOG : 337.96 339.17 1.2 Region : 6000  
 FDEPTH: 169 167 Gear cond.: 0  
 BDEPTH: 169 167 Validity : 0  
 Towing dir: 0° Wire out : 470 m Speed : 3.0 km  
 Sorted : 144 Total catch: 377.05 Catch/hour: 924.89

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 229  
 DATE :22/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 30°3.78  
 start stop duration Purpose : 3  
 TIME :15:25:19 15:55:24 30.1 (min) Lon E 15°40.47  
 LOG : 376.74 377.66 0.9 Region : 6000  
 FDEPTH: 217 211 Gear cond.: 0  
 BDEPTH: 217 211 Validity : 0  
 Towing dir: 0° Wire out : 580 m Speed : 1.8 km  
 Sorted : 114 Total catch: 170.25 Catch/hour: 339.47

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Yellow sponges	561.73	0	60.73	
Sepia australis	69.91	3496	7.56	
URCHINS	64.39	976	6.96	
Merluccius capensis	61.32	206	6.63	2227
Paracallionymus costatus	50.59	4217	5.47	
Merluccius paradoxus	49.06	1815	5.30	2229
Lophius vomerinus	20.11	115	2.17	2225
Helicolenus dactylopterus	9.38	1040	1.01	2230
Callorhynchus capensis	4.66	2	0.50	
Todaropsis eblanae	4.23	211	0.46	2232
Chelidonichthys capensis	4.17	12	0.45	2224
Pterygosquilla armata capensis	3.95	564	0.43	
Genypterus capensis	3.68	32	0.40	2226
Holohalaelurus regani	3.22	8279	0.35	
Macropipus australis	2.85	128	0.31	
Cynoglossus zanzibarensis	2.48	83	0.27	2231
Merluccius paradoxus	1.72	7	0.19	2228
G A S T R O P O D S	1.52	20	0.16	
Starfish	0.98	101	0.11	
Maurollicus muelleri	0.92	0	0.10	
Exodromidia sp.	0.80	83	0.09	
Caelorinchus simorhynchus	0.79	54	0.09	
Sepia hieronis	0.76	20	0.08	
Lepidopus caudatus	0.45	10	0.05	
Mursia cristimanus	0.42	37	0.05	
Etrumeus whiteheadi	0.42	10	0.05	
Solenocera africana	0.16	20	0.02	
Lolligoncula mercatoris	0.11	47	0.01	
Lamp shell	0.08	10	0.01	
Total	924.89		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	43.07	2716	12.69	2273
JELLYFISH	26.32	0	7.75	
Galeorhinus galeus, female	24.53	2	7.22	
Trachurus capensis	19.94	114	5.87	2264
Etrumeus whiteheadi	18.36	265	5.41	
Caelorinchus simorhynchus	17.35	213	5.11	
Lophius vomerinus	16.95	32	4.99	2268
Chelidonichthys capensis	16.75	22	4.93	2265
URCHINS	16.15	0	4.76	
Thyrssites atun	15.35	20	4.52	2262
Helicolenus dactylopterus	13.16	369	3.89	2272
Holohalaelurus regani	12.96	60	3.82	
Lepidopus caudatus	10.97	88	3.23	
Cynoglossus zanzibarensis	10.53	233	3.10	2274
Brama brama	9.17	6	2.70	2263
Merluccius capensis	8.57	12	2.53	2270
Emmelichthys nitidus	7.48	66	2.20	
Todaropsis eblanae	7.12	167	2.10	2275
Anemones, red	6.82	243	2.01	
Callorhynchus capensis	6.48	2	1.91	
Mustelus palumbes, female	6.38	2	1.88	
Paracallionymus costatus	3.83	766	1.13	
Sepia australis	3.83	319	1.13	
Anemones, pink	3.53	12	1.04	
Todarodes angolensis	2.29	4	0.68	2269
Starfish	2.15	0	0.63	
G A S T R O P O D S	1.66	36	0.49	
Genypterus capensis	1.50	8	0.44	2267
Squalus megalops	1.40	4	0.41	
Chelidonichthys queketti	1.20	8	0.35	2266
Merluccius paradoxus	1.10	4	0.32	2271
Congiopodus spinifer	1.00	8	0.29	
Rossia enigmatica	0.34	30	0.10	
Lolligoncula mercatoris	0.26	120	0.08	
Pterygosquilla armata capensis	0.22	48	0.06	
Sepia hieronis	0.22	30	0.06	
Zeus capensis	0.17	12	0.05	2276
Sepia typica	0.11	24	0.03	
Squalus megalops, male	0.10	6	0.03	
Physiculus capensis	0.06	6	0.02	
Parapagurus dimorphus	0.04	6	0.01	
Rochinia sp.	0.03	6	0.01	
Sepia dubia	0.02	6	0.01	
Stoloteuthis sp.	0.01	6	0.00	
Total	339.47		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 227  
 DATE :22/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 29°49.08  
 start stop duration Purpose : 3  
 TIME :09:37:18 10:07:26 30.1 (min) Lon E 16°9.84  
 LOG : 352.67 354.19 1.5 Region : 6000  
 FDEPTH: 183 184 Gear cond.: 0  
 BDEPTH: 183 184 Validity : 0  
 Towing dir: 0° Wire out : 460 m Speed : 3.0 km  
 Sorted : 164 Total catch: 393.54 Catch/hour: 783.42

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	298.61	7814	38.12	2239
Lophius vomerinus	103.52	386	13.21	2234
Merluccius capensis	73.66	183	9.40	2237
Helicolenus dactylopterus	71.67	7129	9.15	2240
URCHINS	69.67	0	8.89	
Paracallionymus costatus	67.68	7521	8.64	
Brama brama	30.86	16	3.94	2233
Sepia australis	26.68	2668	3.40	
Etrumeus whiteheadi	7.56	159	0.97	
Starfish	6.17	0	0.79	
Caelorinchus simorhynchus	4.98	263	0.64	
Holohalaelurus regani	4.28	60	0.55	
Sepia hieronis	3.28	159	0.42	
Todaropsis eblanae	3.19	100	0.41	2242
Cynoglossus zanzibarensis	3.09	119	0.39	2241
Callorhynchus capensis	1.79	2	0.23	
Lepidopus caudatus	1.29	30	0.17	
Lampanyctodes hectoris	1.00	0	0.13	
Maurollicus muelleri	1.00	0	0.13	
Lolligoncula mercatoris	0.63	289	0.08	
Genypterus capensis	0.60	12	0.08	2235
Congiopodus spinifer	0.50	20	0.06	
Merluccius paradoxus	0.46	2	0.06	2238
Chelidonichthys capensis	0.44	2	0.06	2236
G A S T R O P O D S	0.32	10	0.04	
XXXXXXX	0.30	0	0.04	
Mursia cristimanus	0.12	10	0.02	
Pterygosquilla armata capensis	0.11	20	0.01	
Total	783.42		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 230  
 DATE :22/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 30°5.56  
 start stop duration Purpose : 3  
 TIME :17:12:00 17:36:33 24.6 (min) Region : 6000  
 LOG : 382.45 383.11 0.7 Gear cond.: 0  
 FDEPTH: 220 220 Validity : 0  
 BDEPTH: 220 220  
 Towing dir: 0° Wire out : 590 m Speed : 1.6 km  
 Sorted : 81 Total catch: 109.19 Catch/hour: 266.75

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Mustelus palumbes	36.03	24	13.51	
Trachurus capensis	30.78	186	11.54	2283
Merluccius capensis	28.58	12	10.72	2278
JELLYFISH	18.08	0	6.78	
Chelidonichthys capensis	15.39	22	5.77	2279
Holohalaelurus regani	14.95	78	5.61	
Raja straeleni	14.17	17	5.31	
Helicolenus dactylopterus	14.17	386	5.31	2282
Emmelichthys nitidus	13.68	132	5.13	
Heart urchin	11.73	0	4.40	
Etrumeus whiteheadi	10.75	142	4.03	
Lepidopus caudatus	8.31	49	3.11	
Callorhynchus capensis	7.82	2	2.93	
Raja wallacei	5.74	5	2.15	
Zeus capensis	5.37	20	2.01	2285
Squalus megalops	5.37	12	2.01	
Lophius vomerinus	4.89	5	1.83	2281
Thyrssites atun	4.89	2	1.83	2277
Cynoglossus zanzibarensis	4.74	137	1.78	2284
Chelidonichthys queketti	3.79	22	1.42	2280
Todaropsis eblanae	2.15	34	0.81	2286
Paracallionymus costatus	1.81	164	0.68	
Caelorinchus simorhynchus	1.29	10	0.49	
G A S T R O P O D S	0.64	10	0.24	
Sepia hieronis	0.42	15	0.16	
Sepia australis	0.41	29	0.15	
Merluccius paradoxus	0.29	103	0.11	2288
Rossia enigmatica	0.13	5	0.05	
Merluccius paradoxus	0.12	5	0.05	2287
Mursia cristimanus	0.12	5	0.04	
Pterygosquilla armata capensis	0.08	34	0.03	
Lolligoncula mercatoris	0.04	24	0.01	
Sepia typica	0.02	5	0.01	
Total	266.75		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 231  
 DATE :23/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 30°21.07  
 start stop duration Purpose : 3  
 TIME :04:37:16 05:07:56 30.7 (min) Region : 6000  
 LOG : 435.70 437.24 1.5 Gear cond.: 0  
 FDEPTH: 411 408 Validity : 0  
 BDEPTH: 411 408  
 Towing dir: 0° Wire out : 1000 m Speed : 3.0 km  
 Sorted : 581 Total catch: 605.62 Catch/hour: 1184.78

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	322.79	1086	27.24	2292
Merluccius paradoxus	246.49	317	20.81	2293
Merluccius paradoxus	197.59	213	16.68	2295
Merluccius paradoxus	109.55	194	9.25	2294
Lophius vomerinus	59.67	23	5.04	2290
Caelorinchus simorhynchus	54.78	869	4.62	
Bassanago albescens	43.63	0	3.68	
Helicolenus dactylopterus	34.43	176	2.91	2291
Genypterus capensis	33.26	14	2.81	2289
Ruvettus pretiosus	14.97	4	1.26	
Epigonus sp.	9.63	1375	0.81	
Squalus mitsukurii	9.19	6	0.78	
Malacocephalus laevis	6.38	27	0.54	
Anemones, white	6.38	55	0.54	
Starfish	5.09	0	0.43	
Cruriraja parcomaculata	4.50	4	0.38	
Anemones, pink	4.26	47	0.36	
Octopus magnificus	3.52	2	0.30	
Raja wallacei	3.33	2	0.28	
Scyliorhinus capensis	2.93	4	0.25	
Parapagurus pilosimanus	2.86	190	0.24	
Rossia enigmatica	2.62	98	0.22	
Beryx splendens	1.57	12	0.13	
Lucigadus ori	1.37	172	0.12	
Holohalaelurus regani	1.17	4	0.10	
CYPRIDAE (Bulia)	0.81	51	0.07	0
Tripteroptychus gilchristi	0.46	31	0.04	
Hoplostethus mediterraneus	0.39	4	0.03	
Mursia cristimanus	0.36	43	0.03	
Photichthys argenteus	0.29	12	0.02	
Stereomastix sp.	0.18	43	0.01	
CYPRIDAE (Bulia)	0.13	31	0.01	
Physiculus capensis	0.11	16	0.01	
Sepia dubia	0.05	16	0.00	
Rochinia sp.	0.03	12	0.00	
Parapagurus dimorphus	0.02	8	0.00	
Bathynectes piperitus	0.02	4	0.00	
Total	1184.78		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 232  
 DATE :23/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 30°24.47  
 start stop duration Purpose : 3  
 TIME :06:40:54 07:12:21 31.5 (min) Region : 6000  
 LOG : 447.45 449.05 1.6 Gear cond.: 0  
 FDEPTH: 531 532 Validity : 0  
 BDEPTH: 531 532  
 Towing dir: 0° Wire out : 1280 m Speed : 3.1 km  
 Sorted : 410 Total catch: 812.18 Catch/hour: 1549.47

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	1106.52	1438	71.41	2296
Helicolenus dactylopterus	186.96	1051	12.07	2297
Hydrolagus sp.	34.34	61	2.22	
Chaceon sp.	34.34	429	2.22	
Caelorinchus braueri	28.24	1660	1.82	
Merluccius paradoxus	23.47	76	1.51	2301
Cruriraja parcomaculata	19.08	15	1.23	
Raja leopardus	15.26	11	0.99	
Ruvettus pretiosus	14.12	2	0.91	
Selachophidium guentheri	12.59	0	0.81	
Starfish	12.21	0	0.79	
Funchalia woodwardi	11.45	2289	0.74	
Todarodes angolensis	7.63	8	0.49	2299
Malacocephalus laevis	6.68	23	0.43	
Lophius vomerinus	5.34	4	0.34	2300
Sea cucumber	5.15	19	0.33	
Bassanago albescens	4.96	11	0.32	
Oreosoma atlanticum	3.82	31	0.25	2302
Lucigadus ori	3.24	1082	0.21	
Photichthys argenteus	2.17	114	0.14	
Epigonus sp.	2.02	92	0.13	
Todarodes angolensis	1.91	4	0.12	2298
Lycoteuthis lorigera	0.98	4	0.06	2303

Bristle worms (straws)	0.95	191	0.06
Lycoteuthis lorigera	0.91	76	0.06
Rossia enigmatica	0.87	42	0.06
Physiculus capensis	0.86	65	0.06
Notacanthus sexspinis	0.66	11	0.04
Caelorinchus simorhynchus	0.62	4	0.04
G A S T R O P O D S	0.44	11	0.03
Caelorinchus matama	0.31	11	0.02
Chaunax sp.	0.27	4	0.02
Raja leopardus	0.22	4	0.01
Rochinia sp.	0.18	80	0.01
Parapagurus pilosimanus	0.15	4	0.01
Psychrolutes macrocephalus	0.13	8	0.01
Plesionika martia	0.11	4	0.01
Chaceon sp.	0.08	4	0.00
Stereomastix sp.	0.06	19	0.00
Tripteroptychus gilchristi	0.05	4	0.00
Mursia cristimanus	0.03	4	0.00
Symbolophorus boops	0.03	4	0.00
Nezumia sp.	0.01	8	0.00
Electrona risso	0.01	4	0.00
Stoloteuthis sp.	0.01	4	0.00
Total	1549.47		100.00

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 233  
 DATE :23/02/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 30°18.98  
 start stop duration Purpose : 3  
 TIME :09:10:50 09:41:18 30.5 (min) Region : 6000  
 LOG : 459.85 461.37 1.5 Gear cond.: 0  
 FDEPTH: 630 631 Validity : 0  
 BDEPTH: 630 631  
 Towing dir: 0° Wire out : 1500 m Speed : 3.0 km  
 Sorted : 84 Total catch: 259.26 Catch/hour: 510.69

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Notacanthus sexspinis	259.52	2297	50.82	
Funchalia woodwardi	84.55	6504	16.56	
Merluccius paradoxus	55.15	45	10.80	2306
Photichthys argenteus	43.53	926	8.52	
Caelorinchus braueri	35.16	429	6.88	
Malacocephalus laevis	10.88	33	2.13	
Selachophidium guentheri	2.66	26	0.52	
Todarodes angolensis	2.17	2	0.42	2304
Hydrolagus sp.	2.13	8	0.42	
Trachyscorpia eschmeyer	1.82	26	0.36	
Symbolophorus boops	1.69	118	0.33	
Scopelosaurus sp.	1.67	8	0.33	
Raja leopardus	1.57	16	0.31	
Merluccius paradoxus	1.48	2	0.29	2305
Lepidion capensis	1.42	8	0.28	
Cruriraja parcomaculata	1.35	8	0.26	
Etmopterus brachyurus	1.25	41	0.24	
Lycoteuthis lorigera	1.11	51	0.22	
Chaunax sp.	0.49	8	0.10	
Neoscopelus macrolepidotus	0.37	26	0.07	
Caelorinchus matama	0.36	8	0.07	
Rossia enigmatica	0.24	16	0.05	
Gymnoscopelus cf braueri	0.06	8	0.01	
Stoloteuthis sp.	0.03	8	0.01	
Argyropelecus aculeatus	0.01	8	0.00	
Total	510.69		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 234  
 DATE :23/02/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 30°4.69  
 start stop duration Purpose : 3  
 TIME :12:04:34 12:34:41 30.1 (min) Region : 6000  
 LOG : 475.58 477.18 1.6 Gear cond.: 0  
 FDEPTH: 492 491 Validity : 0  
 BDEPTH: 492 491  
 Towing dir: 0° Wire out : 1225 m Speed : 3.2 km  
 Sorted : 338 Total catch: 637.15 Catch/hour: 1269.22

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius paradoxus	486.06	1847	38.30	2311
Merluccius paradoxus	282.87	359	22.29	2315
Merluccius paradoxus	219.12	307	17.26	2313
Helicolenus dactylopterus	83.67	478	6.59	2312
Merluccius paradoxus	79.68	135	6.28	2314
Lophius vomerinus	32.87	14	2.59	2309
Caelorinchus simorhynchus	15.94	124	1.26	
Genypterus capensis	12.95	2	1.02	2310
Todarodes angolensis	9.96	8	0.78	2308
Hydrolagus sp.	9.96	22	0.78	
Centrolophus niger	8.96	2	0.71	
Bassanago albescens	5.98	20	0.47	
Photichthys argenteus	3.98	153	0.31	
Malacocephalus laevis	3.27	36	0.26	
Raja confundens	2.79	4	0.22	
Selachophidium guentheri	2.71	68	0.21	
Funchalia woodwardi	1.59	159	0.13	
Todarodes angolensis	1.39	2	0.11	2307
Caelorinchus braueri	1.27	64	0.10	
Holohalaelurus regani	1.20	4	0.09	
Notacanthus sexspinis	0.97	12	0.08	
Rossia enigmatica	0.60	36	0.05	
Epigonus sp.	0.56	40	0.04	
Lucigadus ori	0.44	36	0.03	
Hoplostethus mediterraneus	0.31	4	0.02	
Lycoteuthis lorigera	0.04	4	0.00	
Symbolophorus boops	0.04	4	0.00	
Paracallionymus costatus	0.04	4	0.00	
Total	1269.22		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 235  
DATE :23/02/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 29°56.90  
start stop duration Lon E 15°4.30  
TIME :15:11:02 15:29:39 18.6 (min) Purpose : 3  
LOG : 497.05 498.02 1.0 Region : 6000  
FDEPTH: 364 366 Gear cond.: 0  
BDEPTH: 364 366 Validity : 0  
Towing dir: 0° Wire out : 920 m Speed : 3.1 km  
Sorted : 286 Total catch: 286.30 Catch/hour: 922.55  
SPECIES CATCH/HOUR % OF TOT. C SAMP

SPECIES	weight	numbers	% OF TOT. C	SAMP
Merluccius paradoxus	251.34	1366	27.24	2322
Merluccius paradoxus	235.23	255	25.50	2324
Brama brama	112.78	77	12.22	2316
Helicolenus dactylopterus	65.41	277	7.09	2323
Holohalaelurus regani	39.96	116	4.33	
Caelorinchus simorhynchus	38.67	773	4.19	
Zeus capensis	38.67	45	4.19	2321
Genypterus capensis	25.78	19	2.79	2318
Squalus mitsukurii	20.95	13	2.27	
Malacocephalus laevis	17.72	77	1.92	
Epigonus sp.	15.15	248	1.64	
Lophius vomerinus	15.15	10	1.64	2317
Scylliorhinus capensis	12.24	26	1.33	
Galeus polli	9.99	39	1.08	
Raja confundens	7.09	6	0.77	
Todarodes angolensis	6.44	13	0.70	2319
Todarodes angolensis	2.42	3	0.26	2320
Todaropsis eblanae	2.38	23	0.26	2326
Cyttus traversi	1.58	3	0.17	
Cynoglossus zanzibarensis	1.55	23	0.17	2327
Rossia enigmatica	0.81	42	0.09	
Hoplostethus mediterraneus	0.28	29	0.03	
Lucigadus ori	0.23	26	0.02	
Todaropsis eblanae	0.19	3	0.02	2325
Symbolophorus boops	0.19	16	0.02	
Lampanyctodes hectoris	0.10	52	0.01	
Physiculus capensis	3.10	10	0.01	
Champsodon capensis	0.05	3	0.01	
Paracallionymus costatus	0.05	3	0.00	
Starfish	0.03	6	0.00	
Maurollicus muelleri	0.03	16	0.00	
Total	922.55		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 236  
DATE :23/02/2010 GEAR TYPE: BT NO: 24 POSITION:Lat S 29°48.26  
start stop duration Lon E 15°13.56  
TIME :17:00:47 17:31:07 30.3 (min) Purpose : 3  
LOG : 510.17 511.85 1.7 Region : 6000  
FDEPTH: 229 225 Gear cond.: 0  
BDEPTH: 229 225 Validity : 0  
Towing dir: 0° Wire out : 630 m Speed : 3.3 km  
Sorted : 184 Total catch: 184.26 Catch/hour: 364.62  
SPECIES CATCH/HOUR % OF TOT. C SAMP

SPECIES	weight	numbers	% OF TOT. C	SAMP
Zeus capensis	63.32	261	17.37	2332
Etrumeus whiteheadi	51.45	606	14.11	
Merluccius capensis	45.51	22	12.48	2331
Callorhynchus capensis	44.53	20	12.21	
Galeorhinus galeus	33.05	2	9.06	2343
Lepidopus caudatus	30.87	230	8.47	
Holohalaelurus regani	24.54	93	6.73	
Thyrsites atun	11.87	12	3.26	2329
Chelidonichthys queketti	9.80	46	2.69	2338
Brama brama	8.11	6	2.23	2330
Helicolenus dactylopterus	6.33	67	1.74	2333
Malacocephalus laevis	6.04	55	1.66	
Trachurus capensis	5.74	24	1.57	2335
Scomber japonicus	4.65	2	1.28	2328
Squalus megalops	3.46	8	0.95	
Raja straeleni	3.07	2	0.84	
Todarodes angolensis	2.18	4	0.60	2337
Lophius vomerinus	1.98	2	0.54	2334
Merluccius paradoxus	1.78	36	0.49	2336
Mustelus palumbes	1.48	2	0.41	
Todaropsis eblanae	0.95	12	0.26	2339
Sepia australis	0.73	55	0.20	
Todaropsis eblanae	0.69	8	0.19	2340
Caelorinchus simorhynchus	0.67	6	0.18	
Cynoglossus zanzibarensis	0.57	6	0.16	2341
Congiopodus spinifer	0.34	2	0.09	
Galeus polli	0.32	2	0.09	
Notopogon macrosolen	0.18	12	0.05	
Arnoglossus capensis	0.16	8	0.04	
Epigonus sp.	0.10	2	0.03	
Paracallionymus costatus	0.07	12	0.02	
Merluccius paradoxus	0.06	20	0.02	2342
Maurollicus muelleri	0.01	8	0.00	
Lycoteuthis lorigera	0.01	4	0.00	
Total	364.62		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 237  
DATE :24/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 29°33.61  
start stop duration Lon E 15°42.48  
TIME :04:40:53 05:03:26 22.6 (min) Purpose : 3  
LOG : 552.37 553.53 1.2 Region : 6000  
FDEPTH: 179 179 Gear cond.: 0  
BDEPTH: 179 179 Validity : 0  
Towing dir: 0° Wire out : 500 m Speed : 3.1 km  
Sorted : 211 Total catch: 255.94 Catch/hour: 680.69  
SPECIES CATCH/HOUR % OF TOT. C SAMP

SPECIES	weight	numbers	% OF TOT. C	SAMP
Merluccius capensis	204.79	335	30.09	2352
Chelidonichthys capensis	172.87	394	25.40	2349
JELLYFISH	79.79	0	11.72	
URCHINS	53.19	0	7.81	
Trachurus capensis	30.59	144	4.49	2344
Merluccius paradoxus	23.94	261	3.52	2351
Lophius vomerinus	14.63	27	2.15	2348
Paracallionymus costatus	14.03	7016	2.06	
Chelidonichthys queketti	12.50	117	1.84	2350
Merluccius paradoxus	10.44	2444	1.53	2356
Sepia australis	8.98	997	1.32	
Yellow sponges	7.65	0	1.12	
Callorhynchus capensis	7.58	3	1.11	
Cynoglossus zanzibarensis	6.98	80	1.03	2354
Thyrsites atun	6.91	11	1.02	2358
Etrumeus whiteheadi	6.78	98	1.00	
Holohalaelurus regani	4.26	21	0.63	
Mustelus palumbes	3.99	3	0.59	
Todarodes angolensis	1.99	3	0.29	2347
Todaropsis eblanae	1.66	27	0.24	
Zeus capensis	1.49	59	0.22	2355
Todarodes angolensis	1.33	3	0.20	2346
Todaropsis eblanae	1.00	13	0.15	2357
Helicolenus dactylopterus	0.80	245	0.12	2353
Macropipus australis	0.80	21	0.12	
Starfish	0.66	40	0.10	
Lepidopus caudatus	0.40	5	0.06	
Genypterus capensis	0.35	5	0.05	2345
Gnathopis capensis	0.13	5	0.02	
Sepia hieronis	0.07	5	0.01	
Maurollicus muelleri	0.07	0	0.01	
Lolligoncula mercatoris	0.03	13	0.00	
Parapagurus pilosimanus	0.03	5	0.00	

Total 680.69 100.00

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 238  
DATE :24/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 29°25.68  
start stop duration Lon E 15°57.15  
TIME :07:11:26 07:42:09 30.7 (min) Purpose : 3  
LOG : 570.31 571.82 1.5 Region : 6000  
FDEPTH: 178 178 Gear cond.: 0  
BDEPTH: 178 178 Validity : 0  
Towing dir: 0° Wire out : 480 m Speed : 2.9 km  
Sorted : 94 Total catch: 355.04 Catch/hour: 693.44  
SPECIES CATCH/HOUR % OF TOT. C SAMP

SPECIES	weight	numbers	% OF TOT. C	SAMP
URCHINS	128.91	0	18.59	
Paracallionymus costatus	128.91	6785	18.59	
Yellow sponges	75.20	0	10.84	
Merluccius capensis	66.41	184	9.58	2364
Merluccius paradoxus	63.16	322	9.11	2370
Merluccius paradoxus	52.64	666	7.59	2369
Sepia australis	27.29	2273	3.93	
Chelidonichthys capensis	25.78	63	3.72	2359
Lophius vomerinus	22.95	49	3.31	2360
Helicolenus dactylopterus	22.13	1611	3.19	2367
Merluccius paradoxus	10.53	1289	1.52	2365
Caelorinchus simorhynchus	7.73	215	1.12	
Callorhynchus capensis	6.84	2	0.99	
Todaropsis eblanae	6.77	236	0.98	2372
Starfish	6.23	129	0.90	
Cynoglossus zanzibarensis	5.80	150	0.84	2366
Genypterus capensis	5.57	53	0.80	2361
Trachurus capensis	3.91	21	0.56	2373
Etrumeus whiteheadi	3.91	86	0.56	
Macropipus australis	3.14	64	0.45	
Chelidonichthys queketti	2.79	21	0.40	2368
Lepidopus caudatus	2.64	43	0.38	
Lampanyctodes hectoris	2.15	0	0.31	
Maurollicus muelleri	2.15	0	0.31	
Zeus capensis	1.96	86	0.28	2371
Raja straeleni	1.76	2	0.25	
Holohalaelurus regani	1.72	21	0.25	
Merluccius paradoxus	1.56	6	0.23	2363
Todarodes angolensis	1.37	2	0.20	2362
Pterygossquilla armata capensis	0.77	86	0.11	
Starfish	0.41	86	0.06	0
Lycoteuthis lorigera	0.32	129	0.05	
Exodromidia sp.	0.06	21	0.01	
Total	693.44		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 239  
DATE :24/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 29°17.27  
start stop duration Lon E 16°16.53  
TIME :09:55:30 10:32:34 37.1 (min) Purpose : 3  
LOG : 591.62 593.52 1.9 Region : 6000  
FDEPTH: 158 155 Gear cond.: 0  
BDEPTH: 158 155 Validity : 0  
Towing dir: 0° Wire out : 420 m Speed : 3.1 km  
Sorted : 104 Total catch: 202.10 Catch/hour: 327.21  
SPECIES CATCH/HOUR % OF TOT. C SAMP

SPECIES	weight	numbers	% OF TOT. C	SAMP
Yellow sponges	97.14	0	29.69	
JELLYFISH	71.24	0	21.77	
Maurollicus muelleri	24.61	0	7.52	
Merluccius paradoxus	21.24	725	6.49	2386
Paracallionymus costatus	16.84	1684	5.15	
Merluccius capensis	16.06	84	4.91	2385
Macropipus australis	14.96	416	4.57	
Todaropsis eblanae	13.66	466	4.18	2382
Etrumeus whiteheadi	9.71	227	2.97	
Pterygossquilla armata capensis	6.15	473	1.88	
Brama brama	4.37	3	1.34	2374
Sepia australis	3.76	188	1.15	
Starfish	3.63	907	1.11	
Chelidonichthys capensis	3.24	11	0.99	2376
Raja straeleni	3.08	2	0.94	
Lophius vomerinus	3.00	24	0.92	2379
Lampanyctodes hectoris	2.59	0	0.79	
Lepidopus caudatus	2.01	58	0.61	
Genypterus capensis	1.86	24	0.57	2380
Lycoteuthis lorigera	1.62	7710	0.49	
Todarodes angolensis	1.54	2	0.47	2375
Sepia hieronis	0.89	26	0.27	
Jasus lalandii	0.73	5	0.22	2378
Exodromidia sp.	0.73	65	0.22	
Helicolenus dactylopterus	0.65	71	0.20	2381
Jasus lalandii	0.49	3	0.15	2377
Congiopodus spinifer	0.39	6	0.12	
Cynoglossus zanzibarensis	0.26	19	0.08	2383
Hermits, mixed	0.19	52	0.06	
Zeus capensis	0.15	13	0.05	2384
Parapagurus dimorphus	0.15	52	0.05	
G A S T R O P O D S	0.13	142	0.04	
Holohalaelurus regani	0.07	6	0.02	
Sufflogobius bibarbatatus	0.07	19	0.02	
Lamp shell	0.02	6	0.01	
Nudibranchs	0.01	6	0.00	
Total	327.21		100.00	

R/V Dr. Fridtjof Nansen SURVEY:2010401 STATION: 240  
DATE :24/02/2010 GEAR TYPE: BT NO: 22 POSITION:Lat S 29°7.23  
start stop duration Lon E 16°27.42  
TIME :12:07:36 12:37:27 29.9 (min) Purpose : 3  
LOG : 606.05 607.52 1.5 Region : 6000  
FDEPTH: 131 132 Gear cond.: 0  
BDEPTH: 131 132 Validity : 0  
Towing dir: 0° Wire out : 325 m Speed : 3.0 km  
Sorted : 42 Total catch: 581.17 Catch/hour: 1168.18  
SPECIES CATCH/HOUR % OF TOT. C SAMP

SPECIES	weight	numbers	% OF TOT. C	SAMP
Merluccius capensis	683.42	7552	58.50	2391
JELLYFISH	410.05	0	35.10	
Chelidonichthys capensis	24.60	103	2.11	2392
Pterygossquilla armata capensis	13.33	4442	1.14	
Merluccius capensis	11.36	36	0.97	2390
Lycoteuthis lorigera	9.57	4253	0.82	
Sepia hieronis	2.67	34	0.23	
G A S T R O P O D S	2.43	34	0.21	
Austroglossus microlepis	2.21	8	0.19	2389
Genypterus capensis	2.01	8	0.17	2394
Jasus lalandii	1.69	20	0.14	2388
Macropipus australis	1.50	68	0.13	
Lepidopus caudatus	1.26	68	0.11	
Jasus lalandii	0.86	10	0.07	2387
Todaropsis eblanae	0.51	34	0.04	2393
Starfish	0.38	103	0.03	
Euphausiacea	0.24	376	0.02	
Sufflogobius bibarbatatus	0.10	34	0.01	
Total	1168.18		100.00	

## Annex 2 Instruments and fishing gear

The Simrad EK-500, 38 kHz scientific echosounder was used for abundance estimation during the survey, in addition data from the 18 kHz, 120 kHz and 200 kHz transducers were logged for possible future multi frequency target estimation. The Bergen Echo Integrator system (BEI) were logging the echogram raw data from the sounder and used to scrutinize the acoustic records, and to allocate integrator data to fish species. All raw data were stored to tape, and a backup of the database of scrutinized data, stored. The details of the settings of the echosounders were as follows:

### Transceiver 1 menu

Transducer depth	5.5 m
Absorption coeff.	10 dB/km
Pulse length	medium (1ms)
Bandwidth	wide
Max power	2000 Watt
2-way beam angle	-21.0 dB
SV transducer gain	27.17dB
TS transducer gain	29.96
Angle sensitivity	21.9
3 dB beamwidth along.	7.3
3 dB beamwidth athw.	7.0
Alongship offset	0.05
Athwardship offset	0.04

### Transceiver 2 menu

Transducer depth	5.5 m
Absorption coeff.	38 dB/km
Pulse length	long (1ms)
Bandwidth	narrow
Max power	1000 Watt
2-way beam angle	-20.6 dB
SV transducer gain	25.96B
TS transducer gain	25.95dB
Angle sensitivity	21.0
3 dB beamwidth along.	7.4
3 dB beamwidth athw.	7.2
Alongship offset	0.24
Athwardship offset	0.04

### Transceiver 3 menu

Transducer depth	5.5 m
Absorption coeff.	3 dB/km
Pulse length	short (0.7ms)
Bandwidth	wide
Max power	2000 Watt
2-way beam angle	-17.2 dB
SV transducer gain	23.75dB
TS transducer gain	23.36B
Angle sensitivity	13.9
3 dB beamwidth along.	10.8
3 dB beamwidth athw.	10.8
Alongship offset	0.06
Athwardship offset	-004

### Transceiver 4 menu

Transducer depth	5.5 m
Absorption coeff.	53 dB/km
Pulse length	long (0.6ms)
Bandwidth	narrow
Max power	1000 Watt
2-way beam angle	-20.5 dB
SV transducer gain	24.18dB
TS transducer gain	24.80B
Angle sensitivity	0.0
3 dB beamwidth along.	0.0°
3 dB beamwidth athw.	0.0°
Alongship offset	- 0.00°
Athwardship offset	0.00°

### Display menu

Echogram	1
Bottom range	10 m
Bottom range start	10 m
TVG	20 log R
Sv colour min -	65 dB
TS Colour minimum	-65 dB

### Printer- menu

Range	0-50, 0-100, 0-150, 0-250 or 0-500 m
TVG	20 log R
Sv colour min	-67 dB

### Bottom detection menu

Minimum level	-40 dB
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### Calibration

A calibration of the acoustic instruments was conducted during the a survey on 14 September 2009.



## Fishing gear

The vessel has two different sized "Åkrahamn" pelagic trawls and one "Gisund super" bottom trawl. For all trawls, the Tyborøn, 7.8m<sup>2</sup> (1670 kg) trawl doors were used.

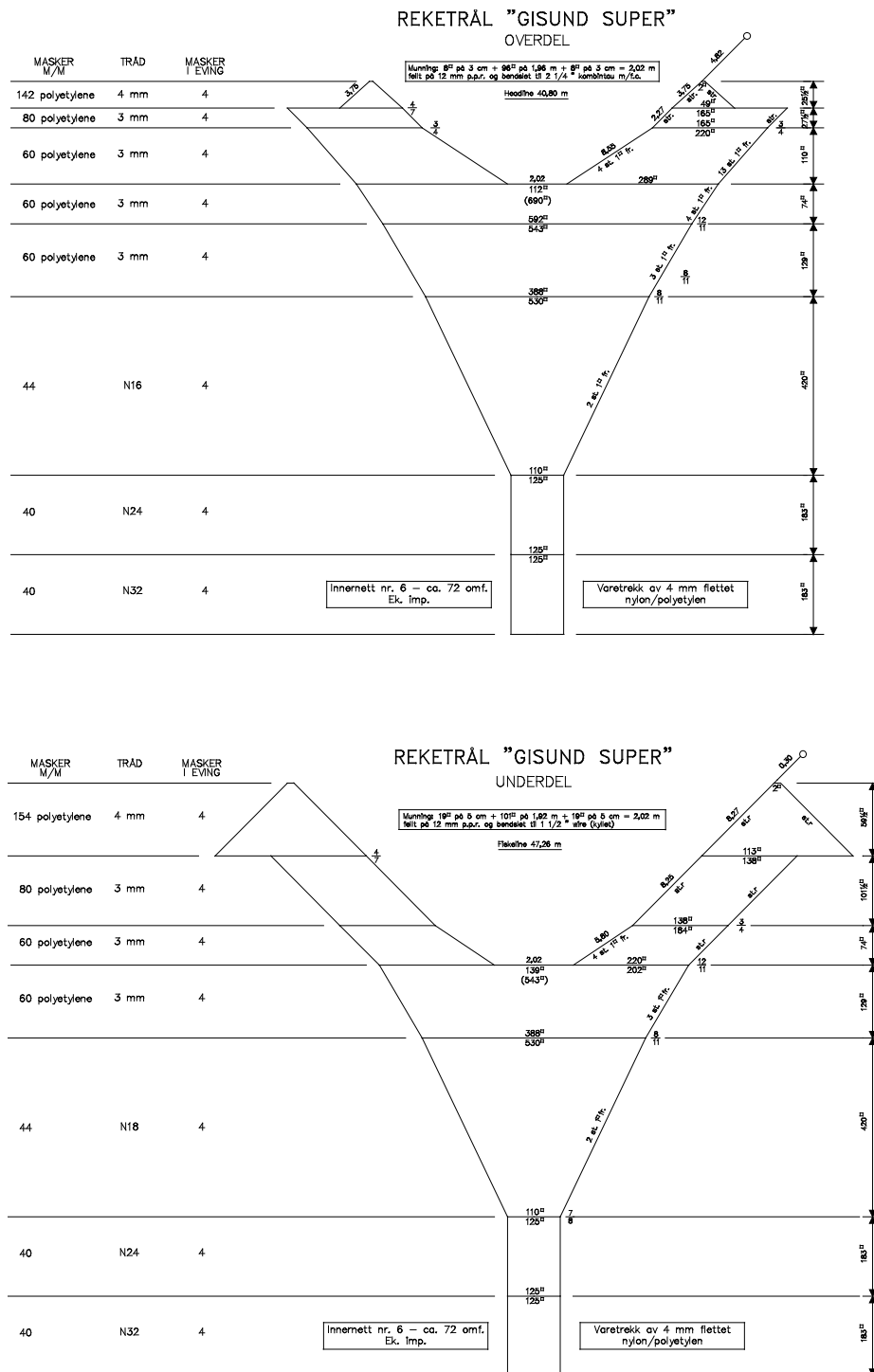


Figure 1 Design of the trawl used.

DEKIN I TROH  
N AHC MM  
MR8

MR5  
RAEGED

MR5  
RAEGED

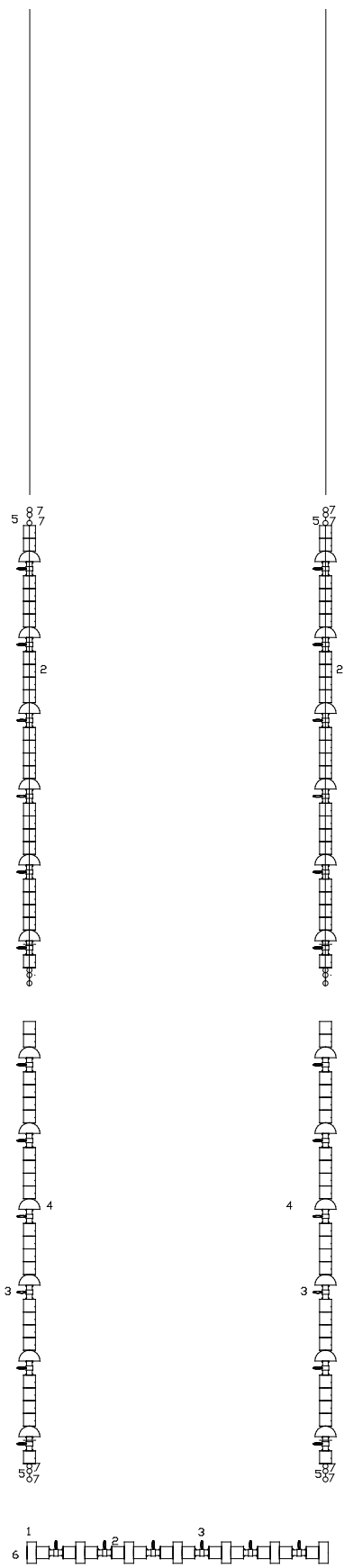


Figure 2 Schematic drawing of the ground gear used in the experiment.

### Annex 3 Depth strata in MN<sup>2</sup> by latitude in Namibia and South Africa.

#### NAMIBIA. Depth strata by 1° latitude in NM<sup>2</sup>

(Based on echo soundings from Nansen surveys 1996-2003. Depths from surface to bottom). 02.02.2003 OBA

	0-50 m	50-100 m	100-200m	200-300m	300-400m	400-500m	500-600m	600-700m	700-800m	800-900m	900-1000m	Total	0-600m
17°15'-18°	47	162	490	243	95	63	65	46	46	54	47	1360	1165
18-19°	287	324	783	822	154	128	119	101	100	87	128	3033	2618
19-20°	186	435	1259	810	1090	328	287	266	192	241	220	5314	4396
20-21°	229	401	1378	883	987	286	265	258	272	281	280	5519	4429
21-22°	372	547	1644	563	893	257	201	200	199	184	179	5238	4477
22-23°	479	709	2196	1086	929	154	126	127	108	97	142	6153	5678
23-24°	244	376	2006	1074	670	238	153	175	139	136	130	5340	4760
24-25°	394	433	1343	822	753	238	149	161	162	166	144	4764	4131
25-26°	204	415	1580	1102	529	227	166	155	161	153	125	4817	4223
26-27°	216	184	894	986	1408	744	140	133	139	131	119	5095	4573
27-28°	119	244	1269	527	858	480	205	170				3872	3702
28-29°	211	390	4207	391	153	123	164					5639	5639
29-30°	0	0	1042	533	327	276	162	167	107	121	121	2859	2341
30°-S	0	0	0	0	0	0	0	0	0	3	5	8	0
North	750	1322	3911	2759	2326	806	736	670	610	663	675	15226	12608
Central	1489	2064	7189	3544	3245	887	627	664	608	582	595	21494	19046
South	750	1234	8992	3540	3276	1850	837	625	408	407	371	22290	20478
Total	2988	4620	20091	9842	8848	3543	2200	1960	1625	1652	1642	59003	52132

Areas in *Italics*: few soundings, interpolated

Open areas: no or very few soundings

**South Africa. Depth strata by 1° latitude in NM<sup>2</sup>**

(Based on echo soundings from Nansen surveys 1996-2004. Depths from surface to bottom).

10.03.2004 OBA

	0-100 m	100-200m	200-300m	300-400m	400-500m	500-600m	600-700m	700-800m	800-900m	900-1000m	Total	0-500 m	0-600m
28°40'-29°	186	303	0	0	0	0	0	0	0	0	489	489	489
29-30°	359	4348	451	195	202	23	7	2	0	0	5588	5556	5579
30-31°	200	2481	3443	460	465	262	177	135	193	149	7965	7049	7311
31-32°	288	2187	1794	1209	894	493	211	173	180	149	7577	6371	6864
32-33°	839	1308	1318	1303	432	156	122	111	109	116	5815	5201	5357
33-34°	654	833	546	375	381	247	243	117	120	102	3617	2789	3036
34-35°	1280	1376	662	496	259	134	80	69	53	66	4475	4074	4208
35-36°	25	1901	778	168	143	131	89	86	59	84	3464	3015	3146
36-37°													
Total	3830	14737	8992	4207	2777	1446	929	692	714	666	38989	34543	35989

**South Africa. Depth strata by regions in NM<sup>2</sup>**

26.08.2005 OBA

	0-100 m	100-200m	200-300m	300-400m	400-500m	500-600m	600-700m	700-800m	800-900m	900-1000m	Total	0-500 m	0-600m
Oranjemund-S. Hondeklip Bay	742	6835	4262	1062	1152	634	314	262	282	230	15776	14054	14688
S. Hondeklip Bay-n Saldanha	1169	3593	2685	2257	1088	454	392	224	242	230	12333	10792	11245
n Saldanha-C. of Good Hope	746	982	935	598	325	154	89	83	59	77	4047	3586	3740
C. of Good Hope-C. Agulhas	1131	3098	998	473	202	167	104	81	58	87	6397	5901	6068
Total	3787	14508	8881	4390	2767	1409	898	650	641	624	38554	34333	35741