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CRUISE REPORTS 'DR FRIDTJOF NANSEN'



SURVEY OF THE PELAGIC FISH RESOURCES OFF NORTH WEST AFRICA

Cruise Report No 12/2000 Part I SENEGAL - THE GAMBIA 29 October - 09 November 2000

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CHAPTER 1 INTRODUCTION

1.1 Objective of the cruise

The general objectives were to estimate the biomass and map the distribution of small pelagic fish stocks off NW Africa (Morocco, Mauritania, Senegal and The Gambia) by hydro-acoustic methods and describe the hydrographic conditions there over a period of 50 days, in October-December 2000. For Senegal and The Gambia the agreed objectives were:

- To map the distribution and estimate the biomass for the main small pelagic fish using hydroacoustic methods. The species of interst were: sardinella *Sardinella aurita*, *Sardinella maderensis*, horse mackerel *Trachurus trachurus and T. trecae*, false scad *Decapterus rhonchus*, and anchovy *Engraulis encrasicolus*.
- To identify and describe the size distribution of the target fish populations by midwater and bottom trawl sampling and process the catches by recording weight and number by species.
- To sample standard hydrographical transects for temperature, salinity and oxygen at about 13°35' N and 14°50' N.

The time allocated for this part of the survey, off Senegal and The Gambia, was 9 days.

1.2 Participation

Members of the scientific teams were:

Centre de Recherches Océanographiques de Dakar-Thiaroy, Senegal: Abdoulaye SARRE, Ibrahima SOW, Mamadou SANE and Madiabel DIOP

Department of Fisheries, The Gambia: Ousmann Mass JOBE, Solomon TAMOH and Juldah JALLOW,

Centre National de Recherches Océanographiques et des Pêches, Mauritania: Sall MAMADOU

Institute of Marine Research, Norway:

Reidar TORESEN, Valantine ANTHONYPILLAI, Tore MØRK and Jan Frode WILHELMSEN

1.3 Narrative

The course tracks with the fishing and hydrographical stations are shown in Figure 1.

The survey started off Casamance on October the 29 with systematic parallel course tracks spaced about 10 NM (nautical miles) apart. To cover the whole distribution area of pelagic fish, the shelf was covered from the 15 m isobath and offshore to the 500 m isobath. Trawling was done irregularly, either to identify echo registrations or to check 'blindly' if fish were mixed with the plankton in the upper layers of the water column. In the latter case, pelagic trawl with floats was often used. A smaller pelagic trawl or the bottom trawl with floats was used for sampling the pelagic fish in very shallow waters (depth less than 25 m). The shelf was covered up to St. Louis before a call was made on Dakar on November 9, to let participants from the Gambia and Senegal disembark and scientists from Mauritania come onboard.

The hydrographic profile off The Gambia was carried out on November 1 and that off Cape Vert on November 3.

1.4 Methods

Environmental Data

Surface temperature and meteorological data from a weather station were logged automatically and recorded with position and bottom depth every nautical mile sailed.

Hydrographic profiles were collected with a CTD sonde and temperature, salinity, and pressure (depth) were logged by the Seabird Software. From these data series, records were selected from standard depths and presented in figures.

Biological sampling

Biological sampling of the fish was carried out using trawls. A pelagic trawl with floats was often used. A smaller pelagic trawl or the bottom trawl with floats was used for sampling the

pelagic fish in very shallow waters (depth less than 25 m). Annex II gives a description of the instruments and the fishing gear used. All catches were sampled for composition by weight and numbers of each species caught. Species identification was based on the FAO Species Guides. Length frequency distributions, by total fish length in cm, of the selected target species were taken in all the stations where they were present. Individual weight measurements were taken regularly to estimate the condition factor in the length-weight relationship:

$$\overline{w} = \frac{cond}{100} \times L^3$$

The specific condition factors obtained from the samples and applied for this survey were: 0.86 for sardinellas and horse mackerels.

For the estimation of the biomass of carangids and associated species, an overall average length of 23 cm and a condition factor of 0.88 (to calculate the mean length of this length group) were applied.

All data on fishing stations and fish length sampling were made available to the participants on diskettes.

The complete records of fishing stations are shown in Annex I.

The following target groups were used for Senegal:

- 1) sardinellas (flat sardinella Sardinella maderensis and round sardinella S. aurita),
- 2) horse mackerels (Atlantic horse mackerel *Thrachurus trecae*, round scad *Decapterus punctatus*, and false scad *Decapterus rhonchus*),
- 3) other pelagic carangids and associated species (Atlantic bumper Chloroscombrus chrysurus, African lookdown Selene dorsalis, chub mackerel Scomber japonicus, largehead hairtail Trichiurus lepturus, and barracudas Sphyraena spp.),
- 4) other demersal species (such as bigeye grunt *Brachydeuterus auritus*, Sparidae and Haemulidae), and
- 5) other clupeids such as West African ilisha Ilisha africana.

Acoustic sampling

A SIMRAD EK500 Echosounder was used with the settings as shown in Annex II. The Bergen Integrator (BEI) was used for analysis and allocation of the integrated s_A – values to the individual specified target groups by 5 NM intervals. The allocation of values to target groups was based on a combination of a visual scrutiny of the behaviour pattern as deduced from echo diagrams, the BEI analysis, and the catch compositions.

In cases where the target category of fish contains more than one species (sardinellas and horse mackerels), the mean s_A – value allocated to the category is divided between the species in the same ratio as their contribution to the mean back scattering strength in the length frequency samples.

The following target strength (TS) function was applied to convert s_A -values (mean integrator value for a given species or group of species in a specified area) to number of fish:

$$TS = 20 \log L - 72 dB$$

Which can be converted (see Toresen *et al.* 1998 for details) to the area form (scattering cross sections of acoustic targets):

$$C_{\rm E} = 1.26 \cdot 10^6 \cdot L^{-2}$$

where L is total length in 1 cm length group *i* and C_{Fi} (m⁻²) is the reciprocal back scattering strength, or so-called fish conversion factor. In order to split and convert the allocated s_A – values (m²/NM²) to fish densities (numbers per length group per NM²), the following formula was used:

$$\rho_i = S_A \cdot \frac{p_i}{\sum_{i=1}^n \frac{p_i}{C_{F_i}}}$$

where

 ρ_i = density of fish in length group *i*

 S_A = mean integrator value

 p_i = proportion of fish in length group *i*

 $\sum_{i=1}^{n} \frac{P_i}{C_{Fi}} = \text{the relative back scattering cross section (m²) of the length frequency}$

sample of the target species, and

 C_{fi} = reciprocal back scattering cross section (σ_{bs}^{-1}) of a fish in length group *i*.

The integrator outputs were split in fish groups using a combination of behaviour pattern as deduced from echo diagrams, the BEI analysis and catch composition as described below. The following groups were used for Senegal: 1) sardinellas, 2) horse mackerels, 3) carangids and associated species, and 4) demersal fish.

The above equations show that the conversion from s_A -values to number of fish is dependent on the length composition of the fish. It is therefore important to get representative length distributions from the stock in the whole distribution area.

When the size classes (of e.g. young fish and older fish) are well mixed, the various length distributions can be pooled together with equal importance. Otherwise, when the size classes are segregated, the total distribution area has to be post-stratified, according to the length distributions, and separate estimates are made for the regions containing fish with equal size.

A systematic approach to a) divide the s_A -value between species in a category of fish (e.g. *Sardinella aurita* and *S. maderensis*) and b) produce pooled length distributions of a target species for use in the above equation and c) calculate the biomass estimates for a region, is obtained through the following procedure:

- The samples of the species in the category (e.g. sardinellas) are respectively pooled together with equal importance (normalized). A sample of 60 flat sardinella in one sample will have equal importance to 30 fish in another sample and not the double weight in accordance with the number of fish in the sample.
- The mean back scattering strength (ρ/s_A) of each length frequency distribution of the target species is calculated and summed. This is automatically done if the length distributions are punched into the Excel spread-sheet prepared for the estimation of the abundance of fish.
- The mean s_A -value allocated to the category of fish in the region is divided between the species in the same ratio as their relative contribution to the mean back scattering strength of the length groups in the sample (also automatically done in the Excel spread-sheet given that the s_A value for the region is punched into the sheet).

- The pooled length distribution is used, together with the mean s_A-value, to calculate the density (numbers per square NM) by length groups and species, using the above formula. The total number by length group in the area is obtained by multiplying each number by the area. (This is done in the Excel spread-sheet, given that the area of the region is punched into the sheet).
- The numbers are converted to biomass using the estimated weight at length. (Done in the Excel sheet if the condition factor is punched).



Figure 1 Course tracks with fishing and hydrographic stations; Casamance to St. Louis.

CHAPTER 2 SURVEY RESULTS

2.1 Hydrography

Figure 2 shows the distribution of temperature, salinity and oxygen in the two profiles and Figure 3 the sea surface temperature at 5 m of depth.



THE GAMBIA - WEST 01.11 2000

Figure 2 Hydrographic profiles with distribution of temperature, salinity and oxygen.



Figure 3 Sea surface temperature; Casamance to St. Louis.

The distribution of surface temperature and the profile The Gambia-West show that there was a stable surface layer with a temperature of 27-28°C over the whole shelf south of Dakar. North of Cape Vert there was a trend of decreasing temperature towards the shore, with a decline from 26°C over the entire shelf just north of Cape Vert to 24°C close to the shore off St. Louis.

2.2 The Casamance shelf

Figures 4, 5 and 6 show the distributions of the main groups of pelagic fish by contoured acoustic densities for the whole shelf of Senegal and The Gambia.

Off the Casamance coast, about 20-30 NM north-west of the river mouth, there was a school area of sardinella of medium and high density in shallow waters, mostly inside the 25 m depth line (Figure 4). The samples from this aggregation were predominantly (88%) *Sardinella maderensis*. The modal size was 24 cm (total length). The size composition is shown in Annex III and the stock length compositions by numbers and weight in Annex IV. The total biomass of sardinellas in the area was estimated at 95 000 tonnes (Table 1).

A distribution area of horse mackerels at low density was found some 20-40 NM off the coast (Figure 5). The fish in this area was mainly large sized scad, *Decapterus* sp. with a modal length of 30 cm. The total biomass of horsemackerels in the area was 24 000 tonnes, of which 95 % were scad.

Other pelagic fish were found in various densities, and over a wider area than the sardinellas, see Figure 6. The trawl samples indicated that these consisted of bumper, lookdown, barracudas, two-colour jack and hairtails, with the bumper as the dominating species. The estimated biomass of this group of fish was 82 000 tonnes.

Table 1. Casamance. Biomass estimates of pelagic fish, 1 000 tonnes.

Flat sardinella	Round sardinella	Horse mackerels	Carangids etc
84	11	24	82

9

2.3 The Gambian shelf

The school area of sardinella found inshore off Casamance continued northwards off The Gambia (Figure 4). The highest consentrations were recorded as a medium density area some 20 NM off the coast. The samples showed a 70% dominance of flat sardinella (*Sardinella maderensis*) with a smaller proportion of round sardinella (*S. aurita*). The pooled length composition of the flat sardinella had a mode of 23 cm, see Annex III. The stock length compositions by numbers and weight are shown in Annex IV.



Figure 4 Distribution of sardinellas; Casamance to St. Louis.





Figure 5 Horse mackerels; Casamance to St. Louis.

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Figure 6. Carangids and associated species; Casamance to St. Louis

Table 2 shows that the biomass estimates of the sardinellas amounted to 73 000 tonnes, of which 52 000 tonnes were flat sardinella.

Horse mackerels were absent from the area (Figure 5).

Carangids and associated species were found widely distributed over the inner shelf (Figure 6). Catches of this group consisted mainly of bumper, African lookdown and barracudas. The biomass was estimated at 140 000 tonnes.

Table 2. The Gambia. Biomass estimates of pelagic fish, 1 000 tonnes.

Flat sardinella	Round sardinella	Horse mackerels	Carangids etc.
52	21	-	140

2.4 The Gambian border - Cape Vert

Three smaller concentrations of sardinella were found in this area; one some 20 NM west of the oulet of the Saloum River, another some 15 NM west of Pointe Sarène, and the third about 10 NM south-east of Dakar (Figure 4). The greatest densities were found between 25 and 40 m depth. Table 3 shows the biomass estimates for the two sardinella species that summed up to 102 000 tonnes. Flat sardinella dominated the estimated biomass in the area by 83%.

Pooled length compositions of samples showed that both flat and round sardinella had modal lengths of 25 cm, see Annex III. Stock size compositions by numbers and weight are shown in Annex IV.

The horse mackerels in this area had a wide and scattered distribution from off the outlet of the Saloum River to some 10 NM south of Dakar (Figure 5). The total biomass was estimated at some 17 000 tonnes of which 83% were scad (*Decapterus* sp.). The modal length of the scad in this area was 29 cm.

Also here, the carangids and associated pelagic fish, were distributed over most of the area with the highest concentrations outside the Saloum River, see Figure 5. Again, bumper was caught in most of the trawl samples. The biomass of the carangids and associated pelagic fish was estimated at about 210 000 tonnes (Table 3).

Table 3. The Gambia border to Cape Vert. Biomass estimates of pelagic fish, 1 000 tonnes.

Flat sardinella	Round sardinella	Horse mackerels	Carangids etc.
85	17	17	210

2.5 Cape Vert - St. Louis

On this part of the shelf no sardinella were found (Figure 4).

Horse mackerel were found in two areas, a small one north of Dakar and a somewhat larger distribution area stretching from Cayar to Bono (Figure 5). The aggregations were found close to shore in medium densities. The total biomass was estimated at 10 000 tonnes, with a 70% dominance of scad (*Decapterus* sp.). The modal length of the Atlantic horse mackerel (*Trachurus trecae*) was 24 cm, while that of scad was 29 cm.

Carangids and associated pelagic fish were mainly found in low densities around Cape Vert and in a wider area, with higher densities stretching from Bonor to St. Louis. (Figure 6). The catches consisted also here of bumper, African lookdown and hairtails. The biomass estimate was 57 000 tonnes.

Table 4. Cape Verte to St. Louis. Biomass estimates of pelagic fish, 1 000 tonnes.

Flat sardinella	Round sardinella	Horse mackerels	Carangids etc.
	-	10	57

CHAPTER 3 OVERVIEW AND SUMMARY OF RESULTS

The survey was conducted successfully in the period October 29 to November 9 with a course track of about 1 500 NM and 36 fishing stations.

The hydrographical data showed a stable surface layer for the whole shelf in the south, but with declining surface temperatures towards the coast from about Dakar northwards.

Pelagic fish

Sardinellas were found in a continuous belt along the inshore shelf from Casamance in the south to Banjul (Figure 4). High densities were found in the northern part of Casamance and south of Dakar. Flat sardinella dominated in all areas. Sardinella were absent from the area between Cape Vert and St. Louis.

Horse mackerels were found in scattered concentrations off Casamance, from Saloum River to Dakar, and in a smaller area, close to shore, north of Dakar (Figure 5).

South of Cape Vert, the distribution of carangids and associated species formed a band along the coast, on the inner shelf, mainly inside the isobath of 50 m (Figure 5). The catches of this group consisted of bumper, barracudas and hairtails.

An overview of the acoustic estimates of biomass of the main groups of pelagic fish is shown in Table 5. The total biomass of sardinellas was thus 270 000 tonnes, horse mackerels $-51\ 000$ tonnes and of carangids and associated species $-489\ 000$ tonnes.

	Flat sardinella	Round sardinella	Horse mackerels	Carangids etc.
St. Louis-Cape Vert	-	-	10	57
Cape Vert-Gambia	85	17	17	210
Gambia	52	21	-	140
Casamance	84	11	24	82
Total	221	49	51	489

Table 5. Summary of biomass estimates of pelagic fish, Senegal and The Gambia. 1 000 tonnes.

Table 6 lists biomass estimates of sardinellas and carangids (including the horse mackerels) and associated species from the 'Dr. Fridtjof Nansen' surveys of this shelf region. Large-scale latitudinal movements of pelagic fish between West Sahara and Guinea Bissau are well known and November is still, normally, within the season of northern distribution. Compared with the November-December 96 and 97 surveys the estimate of 270 000 tonnes of

sardinellas from the current survey is in line. The carangid estimate of 489 000 tonnes is at the level of the estimate in 1999 and is the highest since 1996.

Survey:	Sardinellas	Carangids etc.*
AprMay-81	210	570
Sept -81	360	**
FebMar-82	40	90
NovDec-86	330	170
FebMar-92	1 530	690
NovDec-95	760	220
NovDec-96	231	526
NovDec-97	295	254
NovDec-98	388	344
NovDec-99	1 385	467
NovDec-00	270	489

Table 6. Biomass estimates from previous 'Dr Fridtjof Nansen' surveys of the Senegal-The Gambia shelf. 1 000 tonnes.

* Horse mackerels and other carangids

** Not available

References

Toresen, R., Gjøsæter, H., and Barros, P. 1998. The acoustic method as used in the abundance estimation of capelin (*Mallotus villosus* Müller) and herring (*Clupea harengus* Linné) in the Barents Sea. Fisheries Research 34 (1998) 27-37.

ANNEX I Records of fishing stations

DATE: 30/10/00	GEAR TYPE	: PT No	:7 POS	ROJEC	T STAT	ION:1177 N 1215
start stop	duration				Long	W 1702
LOG : 284.09 285.81	1.70	Area c	e code: ode :	4		
FDEPTH: 0 0 BDEPTH: 20 24		GearCo	nd.code:			
Towing dir: 270ø	Wire out: 1	50 m S	ty code: peed: 30	kn*1	0	
Sorted: 7 Ka ma	tol astat					
sorredi / kg Te	tal catch:	7.8	1 CAT	сн/но	JR :	15.62
SPECIES			41.010			
or be the	W	eight	numbers	* OF	TOT. C	SAMP
Elops lacerta Nemicarany bicolor		5.08	12		32.52	
Ilisha africana		4.12	26		26.38	
Brachydeuterus auritus Sardinella madaronsis		1.80	26		11.52	
Trachinotus ovatus		0.36	18		9.73	2213
Trichiurus lepturus		0.24	16		1.54	
Hemiramphus brasiliensis		0.08	4		0.51	
Total			-		0.125	
local		15.62			99,99	
			PI	OJECT	STATT	ON+1178
DATE: 30/10/00	GEAR TYPE	PT No	1 POSI	TION	Lat	N 1225
TIME :09:17:59 09:41:44	24 (min)	Purpose	code:	1	Long	W 1725
LOG : 329.30 330.75	1.36	Area co	ode i	4		
BDEPTH: 61 75		GearCon	id.code:			
Towing dir: 270ø	Wire out: 20	00 m SI	eed: 35	kn*10		
Sorted: Kg Tot	tal catch:		CATC	u zuon		
			ente	17 1100		
SPECIES		CATCH	HOUR	% OF	TOT. C	SAMP
	We	ight	numbers			orun
Total						
DATE: 30/10/00	CEAR MADE.	DE No.	PR	OJECT	STATIC	ON:1179
start stop d	luration	PT NO:	/ POSI	TION	Lat M Long W	N 1225 N 1710
TIME :11:50:14 12:21:58	32 (min)	Purpose	code:	1		
FDEPTH: 5 5	1.51	Area co GearCon	de : d.code:	4		
BDEPTH: 19 19	11	Validit	y code:	2, 222		
Towing diff. 505	wire out: 15	o m sp	eed: 30	kn*10		
Sorted: 77 Kg Tot	al catch:	77.13	CATC	H/HOU	R: 1	44.62
SPECIES		CATCH/	HOUR	8 OF 1	FOT. C	SAMP
Sphyraena guachancho	we	96.84	numbers 159		66.96	
Scomberomorus tritor Trachinotus ovatus		20.21	21	1	13,97	
Sardinella maderensis		4.95	39		3.42	2214
Chloroscombrus chrysurus Caranx senegallus		4.01	39		2.77	
Decapterus rhonchus		1,46	2		1.09	
Remora remora Hemigarany bicolor		0.49	2		0.34	
Trichiurus lepturus		0.08	4		0.31	
Total		14 62				
	1.	14.02		9	9.99	
			PRO	JECT	STATIO	N:1180
DATE: 30/10/00 start stop di	GEAR TYPE:	BT No:2	POSIT	TIONIL	at N	1231
TIME :14:00:59 14:30:33	30 (min) I	Purpose	code: 1	L	ong W	1704
LOG : 360.99 362.44 1 FDEPTH: 13 13	L.44 A	rea cod	le : 4 Loode :			
BDEPTH: 13 13	V	alidity	code:			
Towing dir: 360ø V	lire out: 80	m Spe	ed: 30 k	n*10		
Sorted: 89 Kg Tota	l catch:	427.16	CATCH	/HOUR	: 85	54.32
				2		
SPECIES		CATCH/H	OUR &	OF T	OT. C	SAMP
Brachydeuterus auritus	wei	ght n	umbers			
Pomadasys jubelini	16	0.80	240	3	8.82	
Illsha africana Alectis alexandrinus	7	6.40	10540		8.94	
Rhinoptera marginata	5	5.60	24		7.58 6.51	
Chloroscombrus chrysurus Arius heudeloti	4	3.60	460		5.10	
Galeoides decadactylus	3	1.60	320		1.19 3.70	
Sardinella maderensis Trichiurus lenturus	2	0,40	120		2.39	2215
Selene dorsalis	1	9.60	400	-	2.29	
GERREIDAE	î	3.20	80	1	1.55	
sphyraena guachancho Scomberomorus tritor		7.04	16	(1.82	
Carcharhinus sp.		1.76	2	0	. 22	
Elops lacerta Pseudotolithus seperalensis		1.32	4	c	1.15	
Pteroscion peli		0.20	2	0	.07	
Penaeus kerathurus Pteroscion peli	(0.20	2	0	.02	
Drepane africana	(20	2	0	.02	
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A 10 1.00 A	854	. 36		9.9	0.0	

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TIME :20:19:29 20:49:58 30 ((min) Purp	ose code:	1 1.0119	" 1	1/3
LOG : 421.74 423.35 1.60	Area	code :	4		
FDEPTH: 10 10	Gear	cond.code:			
BDEPTH: 52 51	Valid	lity code:			
Towing dir: 90ø Wire o	out: 150 m	Speed: 35	kn*10		
Sorted: 9 Kg Total cat	ch: 9	54 CAT	CH/HOUR :	19.	08
SPECIES	CATC	H/HOUR	% OF TOT.	C S	AMI
Trachurus trecae	weight 6 8	numbers	26.0		
DALDA01	2.46	120	12.0	0 2	21)
Fistularia petimba	2.26	8	11 9	5	
Lagocephalus laevigatus	2.16	4	11.3	2	
Decapterus rhonchus	1.92	48	10.0	6 2	210
Engraulis encrasicolus	1.52	238	7.9	7	
Ariomma Dondi	0.80	10	4.1	9	
Decapterus rhonchus	0.44	14	2.3	1	
Sepia officinalis hierredda	0.32	2	1,61	a 7	
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	19.08		100.0	1	
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start stop duration	TYPE: PT N	o:4 POS	TION:Lat	N 12	245
TIME : 22:17:25 22:49:27 32 (1	min) Purpo	se code:	Long	W 13	723
LOG : 435.17 436.96 1.79	Area	code :	4		
FDEPTH: 10 10	GearC	ond.code;	·		
BDEPTH: 37 35	Valid	ity code:			
Towing dir: 90ø Wire ou	ut: 150 m	Speed: 35	kn*10		
Sorted: 439 Kg Total cate	ch: 439.	04 CATO	H/HOUR:	823.2	20
PECIES	CATC	H/HOUR	§ OF TOT.	C SA	AMP
hloroscombrus chrysurus	weight	numbers			
ardinella maderensis	336.00	2070	40.82		
aleoides decadactylus	74.40	1500	28,13	22	118
lectis alexandrinus	68.51	81	8.32		
omadasys jubelini	37.05	71	4.50		
ecapterus rhonchus	24.56	77	2.98	22	219
phyraena guachancho	20.48	15	2.49		
elene dorsalis	19.80	150	2.41		
ania officiantia blowedd.		30	0 80		
epia officinalis hierredda actylopterus volitans	6.60	20	0.53		
epia officinalis hierredda actylopterus volitans otal	6.60 4.20	30	0.51		
epia officinalis hierredda actylopterus volitans otal	6.60 4.20 823.20	30	0.51		
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epia officinalis hierredda actylopterus volitans otal DATE:31/10/00 GEAR start stop duration TIME :00:05:29:00:35:00 30 (m 106 :447.15 449.64 349.65	6.60 4.20 823.20 TYPE: PT No tin) Purpos	30 PR 9:7 POSI e_code:	0.51 0.51 100.00 OJECT STAT TION:Lat Long 1	ION:11 N 12 W 17	83 45 10
epia officinalia hierredda actylopterus volitans otal DATE:31/10/00 GEAR start stop duration TIME :00:05:29 00:35:00 30 (m LOG : 447.15 448.64 1.47 FDEFTMI	6.60 4.20 823.20 TYPE: PT No in) Purpos Area c Gaardo	30 PR p:7 POSI te code: code :	0.51 0.51 100.00 OJECT STAT TION:Lat Long 1 4	ION:11 N 12 W 17	83 45 10
epia officinalia hierredda actylopterus volitans otal DATE:31/10/00 GEAR start stop duration TIME :00:05:29 00:35:00 30 (m LOG : 47.15 448.64 1.47 FDEPTH: 0 0 19	6.60 4.20 823.20 TYPE: PT No din) Purpos Area c GearCc Valid	30 PR p:7 POSI sode : nd.code : tv.code:	0.51 100.00 OJECT STAT TION:Lat Long 1 4	ION:11 N 12 W 17	83 45 10
epia officinalis hierredda actylopterus volitans otal DATE:31/10/00 GEAR start stop duration TIME :00:05:29 00:35:00 30 (m LOG : 447.15 448.64 1.47 PDEPTW: 0 19 BDEPTW: 20 19 Towing dir: 90# Wire ou	6.60 4.20 823.20 TYPE: PT No Area c GearCc Validi t: 150 m S	30 PR p:7 POSI ecode: ode: md.code: ty code: peed: 30	0.51 0.51 100.00 OJECT STAT TION:Lat Long 1 4 kn*10	ION:11 N 12 W 17	83 45 10
epia officinalia hierredda actylopterus volitans otal DATE:31/10/00 GEAR start stop duration TIME :00:05:29 00:35:00 30 (m LOG : 447.15 448.64 1.47 FDEPTH: 0 0 BDEPTH: 0 0 BDEPTH: 20 19 Towing dir: 90s Wire ou Sorted: 20 Kg Total cate	6.60 4.20 823.20 TYPE: PT No Area c GearC Validi t: 150 m s h: 20.8	30 PR p:7 POSI e code: nd.code: ty code: ty code: geed: 30 6 CATC	0.51 0.51 100.00 OJECT STAT TION:Lat Long 1 4 kn*10 M/HOUR:	ION:11 N 12 W 17 41.7	83 45 10 2
epia officinalis hierredda actylopterus volitans total DATE:31/10/00 GEAR start stop duration TIME :00:05:29 00:35:00 30 (m LOG : 447.15 448.64 1.47 FDEPTH: 0 0 DDEPTH: 0 0 DDEPTH: 0 0 DDEPTH: 20 19 Towing dir: 90s Wire ou Sorted: 20 Kg Total cate	TYPE: PT No B23.20 TYPE: PT No Area c GearCC Validi t: 150 m s h: 20.8	30 PR p:7 PoSI odd : odd : odd : ty code : ty code : ty code : fpeed : 6 CATC	0.51 0.51 100.00 OJECT STAT TION:Lat Long 1 4 kn*10 H/HOUR:	ION:11 N 12 W 17 41.7	83 45 10 2
epia officinalia hierredda actylopterus volitans otal DATE:31/10/00 GEAR start stop duration TIME :00:05:29:00:35:00 30 (m LOG :47.15 448.64 1.47 PDEPTH: 0 0 BDEPTH: 20 19 Towing dir: 90s Wire ou Sorted: 20 Kg Total cate	4.20 4.20 823.20 TYPE: PT No Area c Gearcc Validi t: 150 m s h: 20.8 CATCH	30 PR p:7 POSI sode : sode : ty code: ty code: ty code: deed: 30 6 CATC /HOUR	0.51 100.00 OJECT STAT TION:Lat Long 1 4 kn*10 I/HOUR: 4 OF TOT. 6	ION:11 N 12 W 17 41.7	83 45 10 2 MP
epia officinalia hierredda actylopterus volitans otal DATE:31/10/00 GEAR start stop duration TIME 100.15129 00.15100 00 (m LOG : 447.15 448.64 1.47 FDEPTH: 0 0 BDEPTH: 20 19 Towing dir: 90s Wire ou Sorted: 20 Kg Total catc PECIES Cachydeuterus auritus	4.20 4.20 B23.20 TYPE: PT NG in) Purpos Area c GearCc Validi t: 150 m S h: 20.8 CATCH Weight 26.36	30 PR Pr7 Posti re code: code : rod.code: ty code: peed: 30 6 CATC: //HOUR numbers A10	0.51 100.00 OJECT STAT TION:Lat Long 1 4 kn*10 H/HOUR: 4 OF TOT. (ION:11 N 12 W 17 41.7; 5 SA	83 45 10 2 MP
epia officinalia hierredda actylopterus volitans otal DATE:31/10/00 GEAR start stop duration TIME :00:05:29 00:35:00 30 (m LOG : 447.15 448.64 1.47 FDEPTH: 0 0 DEPTH: 0 0 DEPTH: 20 19 Towing dir: 90e Wire ou Sorted: 20 Kg Total catc PECIES cachydeuterus auritus cius heudeloti	4.20 4.20 823.20 TYPE: PT NC Area c GearCC Validi t: 150 m s h: 20.8 CATCH weight 26.36 6.56	PR p:7 POSI te code:	0.51 100.00 OJECT STAT TTON:Lat Long 4 kn*10 N/HOUR: 4 OP TOT. (63.18 15.72	ION:11 N 12 W 17 41.7	83 45 10 2 MP
epia officinalia hierredda actylopterus volitana otal DATE:31/10/00 GEAR start stop duration TIME :00:05:29 00:35:00 30 (m LOG : 447.15 448.64 1.47 FDEPTW: 0 19 BDEPTW: 20 19 Towing dir: 90s Wire ou Sorted: 20 Kg Total catc PECIES Sachydeuterus auritus ius heudeloti iene dorsalis	6.60 4.20 823.20 TYPE: PT No in) Purpos Area c GearCc Validi t: 150 m 5 h: 20.8 CATCH weight 26.36 6.56 2.36	30 PR POSI	0.51 100.00 OJECT STAT TION:Lat Long 1 4 kn+10 Kn+	ION:11 N 12 W 17 41.7	83 45 10 2 MP
epia officinalia hierredda actylopterus volitans otal DATE:31/10/00 GEAR start stop duration THME :00:05:29 00:15:00 10: LOG : 447.15 448.64 1.47 FDEPTH: 0 0 BDEPTH: 20 19 Towing dir: 90s Wire ou Sorted: 20 Kg Total catc PECIES cachydeuterus auritus tus heudeloti lene dorsalis comberomorus tritor	6.60 4.20 823.20 TYPE: PT NC Area c Gear C Validi t: 150 m s h: 20.8 CATCH weight 26.36 6.56 2.36 1.76	PR p:7 POSI te code: i.code : i.ty code: peed: 30 6 CATC /HOUR 1 numbers 410 8 30 2	0.51 100.00 OJECT STAT TION:Lat Long 1 4 4 kn*10 1/HOUR: 4 OF TOT. (63.18 15.72 5.66 4.22	ION:11 N 12 W 17 41.7: 2 SAF	83 45 10 2 MP
epia officinalia hierredda actylopterus volitana otal DATE:31/10/00 GEAR start stop duration TIME :00:05:29 00:35:00 30 (m LOG : 47.15 448.64 1.47 FDEPTH: 0 0 DEPPTH: 0 19 DEPPTH: 20 19 Towing dir: 900 Wire ou Sorted: 20 Kg Total cate PECIES rachydeuterus auritus rius heudeloti tene dorsalis somberomorus tritor recepterus rhonchus	6.60 4.20 823.20 TYPE: PT Nc Gearce validi t: 150 m s h: 20.8 CATCH weight 26.36 6.56 2.36 1.76	PR Pr:7 POSI re code: rod.code: rd.code: ty code: ty code: for code: ty code:	0.51 100.00 OJECT STAT TION:Lat Long 1 4 kn+10 1/HOUR: 4 OF TOT. 6 63.18 15.72 5.66 4.22 4.22	ION:11 N 12 W 17 41.7: 2 SAM	83 45 10 2 MP
epia officinalia hierredda actylopterus volitans otal DATE: J1/10/00 GEAR start stop duration TIME 100.15:29 0015:00 30 (m LOG : 447.15 448.64 1.47 FDEPTH: 0 0 BDEPTH: 20 19 Towing dir: 90s Wire ou Sorted: 20 Kg Total catc VECIES Tachydeuterus auritus tius heudeloti lene dornalis tomberomorus tritor coapterus rhonchus achinotus ovatus	6.60 4.20 823.20 TYPE: PT No GearCc Validi t: 150 m £ h: 20.8 CATCH weight 26.36 6.56 2.36 1.76 1.76 0.52	30 PR POST POST POST POST POST POST POST POST	0.51 100.00 OJECT STAT TION:Lat Long 1 4 kn+10 U/HOUR: 6 3.18 15.72 5.66 4.22 4.22 1.25 5.66	ION:11 N 12 W 17 41.7 C SAI	83 45 10 2 MP
epia officinalia hierredda actylopterus volitans otal DATE: 31/10/00 GEAR start stop duration THME: 00:05:29 00:135:00 30 (m LOG : 447.15 448.64 1.47 FDEPTH: 0 0 DDEPTH: 0 0 DDEPTH: 20 19 Towing dir: 90s Wire ou Sorted: 20 Kg Total cate ECCIES Sachydeuterus auritus tus heudeloti lene dormalis comberomorus tritor capterus rhonchus achinotus ovatus ichiurus lepturus	6.60 4.20 823.20 TYPE: PT No Area c GearCc validi t: 150 m s h: 20.8 CATCH weight 26.36 6.56 2.36 6.56 1.76 1.76 1.76 0.52 0.52	30 PR Pr 7 POSI re code: rod.code: rod.code: 100 code: 100	0.51 100.00 OJECT STAT TION:Lat Long 1 4 kn*10 I//HOUR: 4 0 P TOT. (63.18 15.72 4.22 1.25 1.25	ION:11 N 12 W 17 41.7: C SAF	83 45 10 2 MP
epia officinalia hierredda actylopterus volitana otal DATE:31/10/00 GEAR start stop duration TIME :00:05:29 00:35:00 30 (m LOG : 447.15 448.64 1.47 FDEPTW: 0 0 DDEPTW: 20 19 Towing dir: 900 Wire ou Sorted: 20 Kg Total catc PECIES achydeuterus auritus ius heudeloti ilene dorsalis comberomorus tritor capterus tritor ca	6.60 4.20 823.20 TYPE: PT Nc Gearcc Validi t: 150 m s h: 20.8 CATCH weight 26.36 6.56 2.36 1.76 0.52 0.52 0.48 0.41	30 PR POSI	0.51 100.00 OJECT STAT TION:Lat Long Long Kn+10 H/HOUR: 4 0F TOT. 6 63.18 15.72 5.66 4.22 4.22 1.25 1.25	ION: 11 N 12 W 17 41.7: C SAI 222 222	83 45 10 2 MP
epia officinalia hierredda actylopterus volitans otal DATE:31/10/00 GEAR start stop duration THE :00.05:29 00.35:00 10 (m LOG : 447.15 448.64 1.47 FDEPTH: 0 0 BDEPTH: 20 19 Towing dir: 90æ Wire ou Sorted: 20 Kg Total catc PECIES Cachydeuterus auritus tius heudeloti bene dorsalis comberomorus tritor capterus rhonchus achinotus voatus tichiurus lepturus tichiurus lepturus ichinurus lepturus ichinurus heysurus ioha africana	6.60 4.20 823.20 TYPE: PT NG Area c GearCc Validi t: 150 m S h: 20.8 CATCH weight CATCH weight 26.36 6.56 6.56 1.76 1.76 0.52 0.52 0.44	30 PR PDS1 re code: rode i rode i rode i peed: 30 6 CATC /HOUR 8 30 2 12 12 4 6 6 6 6 6 6 6 6 6 6 6 6 6	0.51 100.00 OJECT STAT TION: Lat Long 1 4 kn*10 1/HOUR: 63.18 15.72 5.66 4.22 1.25 1.15 1.05 1.05	ION: 11 N 12 W 17 41. 7: С SAI 22: 222	83 45 10 2 MP 21 20
epia officinalia hierredda actylopterus volitans otal DATE:31/10/00 GEAR start stop duration TIME :00:05:20 00:35:00 30 (m IOG : 447.15 448.64 1.47 FDEPTH: 0 0 DEEPTH: 0 0 BOEPTH: 20 19 Towing dir: 908 Wire ou Sorted: 20 Kg Total catc PECIES sachydeuterus auritus tius heudeloti telene dorsalis somberomorus tritor scapterus rhonchus achinotus ovatus tichiurus lepturus ridella maderensis lons africana R A B S	6.60 4.20 4.20 823.20 TYPE: PT NC Area c GearCC validi t: 150 m s h: 20.8 CATCH weight 26.36 6.56 2.36 6.56 1.76 1.76 1.76 0.52 0.52 0.44 0.44 0.36	30 PR Pr 7 POSI re code: rond.code: ty code: peed: 30 6 CATC /HOUR 410 8 30 2 2 4 6 6 6 6 6 6 6 6 6 6 6 6 6	0.51 100.00 OJECT STAT TION:Lat Long 1 4 kn+10 1/HOUR: 4 0F TOT. (63.18 15.72 5.66 4.22 1.25 1.25 1.05 0.05	ION:11 N 12 W 17 41.7 С БАН 222 222	83 45 10 2 MP 21 20
epia officinalia hierredda actylopterus volitans otal DATE:31/10/00 GEAR start stop duration TIME :00:05:29 00:35:00 30 (m LOG : 447.15 448.64 1.47 PDEPTH: 0 0 BDEPTH: 20 19 Towing dir: 90æ Wire ou Sorted: 20 Kg Total catc PECIES cachydeuterus auritus cius heudeloti ilene dorsalis Somberomorus tritor capterus rhonchus achinotus ovatus ichiurus lepturus rdinella maderensis Ioroacomburus chrysurus isha africana R A B S miramphus brasiliensis	6.60 4.20 823.20 TYPE: PT Nc Gearce validi t: 150 m s h: 20.8 CATCU weight 26.36 6.56 6.2.36 1.76 0.52 0.52 0.44 0.44 0.44 0.36 0.16	30 PR Post re code: rond.code: peed: peed: numbers 410 6 CATC 410 8 30 2 12 2 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0.51 100.00 OJECT STAT TTON:Lat Long 1 4 kn+10 1/HOUR: 4 OF TOT. 6 63.18 15.72 5.66 4.22 4.22 1.25 1.25 1.05 0.36 0.36	ION:11 № 12 ₩ 17 41.7: С Ям 22: 22:	83 45 10 2 MP 21 20

		Р	ROJECT S	TATION	:1184	
DATE: 31/10/00 GEAR TY start stop duration	PE: BT No:	2 POS	ITION:La Lo	t N ng W	1251 1703	
TIME :01:40:23 02:10:08 30 (min) Purpose	code:	1	1.9		
LOG : 457.30 458.77 1.47 FDEPTH: 18 19	GearCor	nd.code:	4			
BDEPTH: 18 19 Towing dir: 365 Mire out:	Validit	ty code:	keet10			
Towing dir: 360 wire out:	90 m st	peed: 30	KU*10			
Sorted: 32 Kg Total catch:	195.56	5 CAT	CH/HOUR :	39	1.12	
apported	atman	aloup.				
SPECIES	CATCH/ weight	numbers	& OF TO	T, C	SAMP	
Brachydeuterus auritus	136.40	1896	34	.87	2222	
Arius heudeloti	84.00	408	21	.48	4444	
Pomadasys jubelini Decapterus rhonchus	32.16	60	8	. 22		
Syacium micrurum	7.20	12	î	.84		
Selene dorsalis Mugil capurrii	6.48	72	1	.66		
GERREIDAE	6.00	96	î	. 53		
Sphyraena guachancho	4.32	24	1	.47		
Chloroscombrus chrysurus Calecides decadactylus	2.16	36	0	. 55		
Penaeus notialis	0.72	300	0	.18		
Penaeus kerathurus	0.72	36	0	.18		
Total	391.28		100	.02		
DATE: 31/10/00 GEAR TY	PE: PT No:	6 POS	ROJECT S	TATION t N	1255	
start stop duration	Burbons	, oode .	Lo	ng W	1708	
LOG : 469.68 471.52 1.80	Area co	ode :	4			
FDEPTH: 0 0 BDEPTH: 22 26	GearCon Validit	nd.code:				
Towing dir: 270ø Wire out:	150 m Sp	peed: 37	kn*10			
Sorted: 64 Kg Total catch:	1394.45	CAT	CH/HOUR:	278	8.98	
SPECIES	CATCH/	HOUR	& OF TO	т. с	SAMP	
Chloroscombrus chrysurus	weight 1624.54	numbers 20898	58	25		
Brachydeuterus auritus	847.10	123410	30	. 37		
Sardinella maderensis	60.20	172	6	.48	2223	
Galeoides decadactylus Sphyraena guachancho	25.80	128	0	.93		
Arius heudeloti	12.90	86	0	.46		
GERREIDAE Decapterus rhonchus	8.60 8.60	86	0	. 31		
Selene dorsalis	6.02	86	0	. 22		
Penaeus notialis	0.86	42	0	.03		
Total	2788.98		100	.01		
		PI	OTECT S	PATTON	1186	
DATE: 31/10/00 GEAR TY	PE: PT No:	4 POST	TION: La	t N	1255	
start stop duration TIME :05:51:48 06:22:38 31 (min)) Purpose	code:	4 Loi	ng W	1724	
LOG : 485.80 487.68 1.85 EDEPTH: 10 10	Area co	de :	4			
BDEPTH: 44 47	Validit	y code:				
Towing dir: 270ø Wire out:	150 m Sp	eed: 35	kn*10			
Sorted: 34 Kg Total catch:	387.14	CATO	H/HOUR :	74	9.30	
SPECIES	CATCH/	HOUR	% OF TOT	r, c	SAMP	
Decapterus rhonchus	442.84	1788	59	. 10	2225	
Alectis alexandrinus Caranx crysos	268.26	277	35.	80	2224	
Selene dorsalis	2.55	21	0.	. 34		
Sarda sarda Auxis thazard	2.36	2 4	0.	.31		
motal	740 30			0.0		
Total	749.30		99.	.99		
		PF	ROJECT ST	TATION	:1187	
DATE: 31/10/00 GEAR TYI start stop duration	'E: BT No:	2 POSI	TION:Lat	N N	$1315 \\ 1658$	
TIME :13:51:33 14:21:02 29 (min)	Purpose	code :	1 5			
FDEPTH: 15 16	GearCon	d.code:	2			
BDEPTH: 15 16 Towing dir: 350g Wire out:	Validit	y code:	kn*10			
and the second second second	and the second					
Sorted: 70 Kg Total catch:	599.08	CATC	H/HOUR :	1239	9.48	
SDECTES	CAROL /	HOUR	\$ OF men	r c	CAMP	
	weight	numbers	. or 101		South	
Chloroscombrus chrysurus Brachydeuterus auritus	589.14 289.12	8230 5487	47.	53		
Pomadasys jubelini	173.75	492	14.	02		
sparus caeruleostictus * Sardinella maderensis	73.86	211 563	5.	96 88	2226	
Balistes punctatus Suburaana guaghangho	15.48	17	1.	25	202455699	
Pomadasys incisus	6.68	35	1.0.	45 54		
Decapterus rhonchus Selene dorsalis	2.46	52	0.	20		
GERREIDAE	0.83	35	0.	07		
Galeoides decadactylus	0.46	4	0.	04		
Total	1229.87		99.	24		
						1

P. 2 POS	ROJECT STATION	1:1184	DATE: 31/10/00 CEAD TY	DE: DT No.1	PROJEC	T STATIO	N:1188
ie code:	Long W	1703	start stop duration	PET PT NOTE	POSITIO	Long W	1315
ond.code: ity code: aneed: 30	4 kn*10		LOG : 583.29 585.32 2.00 FDEPTH: 20 20 BDEPTH: 37 34	Area code GearCond. Validity	ode: 5 5 5 5 5 5 5 5 5 5 5 5 5		
56 CAT	CH/HOUR: 39	1.12	Sorted: 13 Kg Total catch:	13 1A	1: 40 kn*		25 42
	en/1100k1 55		softeen is ky lotal catch:	15.14	САТСИ/ИС	JUR:	25.43
I/HOUR numbers	% OF TOT, C	SAMP	SPECIES	CATCH/HO weight nu	UR % OF	P TOT, C	SAMP
1896 900	34.87 22.15	2222	Chloroscombrus chrysurus Sardinella maderensis	19.55 5.15	194	76.88	2227
408	21.48 8.22		Brachydeuterus auritus Sepia elegans	0.58	8	2.28	
36	2.82		metal	0.15		0.59	
72	1.66		local	25.43		100.00	
96	1.53						
12	1.10		DATE: 31/10/00 GEAR TY	PE: PT No:4	PROJEC	T STATIO	N:1189 1325
48	0.37		TIME :22:53:54 23:23:26 30 (min) Purpose c	ode: 1	Long W	1712
300	0.18		LOG : 645.48 647.22 1.72 FDEPTH: 5 5	Area code GearCond.	: 5 code:		
	100.02		BDEPTH: 45 42 Towing dir: 90ø Wire out:	Validity 150 m Spee	20de: 3: 35 kn*?	10	
			Sorted: 35 Kg Total catch:	370.82	CATCH/HC	OUR: 7	41.64
P	ROJECT STATION	1:1185					
ore pos	Long W	1255 1708	SPECIES	CATCH/HO weight nu	JR % OF mbers	TOT, C	SAMP
ie code: code :	1 4		Brachydeuterus auritus Chloroscombrus chrysurus	253.20 195.20	3220 1440	34.14 26.32	
ond.code: ty code:			Sardinella aurita Selene dorsalis	90.40 89.60	58 820	12.19	2229
Speed: 37	kn*10		Trachurus trecae Sardinella maderensis	52.00 31.60	620 260	7.01	2230
9 CAT	CH/HOUR: 278	8,98	Arius heudeloti Sphyraena guachancho	14.04	10	1.89	
1/HOUR	& OF TOT. C	SAMP	Decapterus rhonchus Dactylonterus volitans	4.00	20	0.54	
numbers 20898	58.25		Decapterus punctatus	0.80	60	0.11	
123410	30.37		Total	741.64	_	99.99	
558 128	2.16	2223					
42	0.49		DATE: 1/11/00 CEAD TV	DR. DR No.7	PROJEC	T STATIO	N:1190
86	0.31		start stop duration	PET PT NOT	POSITION	Long W	1325
86	0.22		LOG : 655.16 656.62 1.44	Area code	; 5		
4.2	100.01		BDEPTH: 24 21	Validity of	ode:		
	100.01		Forted: 36 Ka	150 m speed	1: 30 kn*1	.0	
PI	ROJECT STATION	. 1186	sorred: 36 kg Total catch:	207.20	САТСИ/НО	ORI 55	74.56
14 POST	ITION:Lat N	1255	SPECIES	CATCH/HOU	JR % OF	TOT, C	SAMP
e code:	4	1724	Brachydeuterus auritus	378.56	6144	65.89	
nd.code:	•		Pomadasys jubelini	52.16	928 192	9.08	2231
peed: 35	kn*10		Chloroscombrus chrysurus	15.04	128	5.63	
4 CATC	CH/HOUR: 74	9.30	Trichiurus lepturus	5.76	32	1.00 0.89	
dioup	L of mon a		Decapterus rhonchus	1,92	16 16	0.33 0.28	
numbers	50 10	3225	Sardinella aurita	0.64	96	0.11	2232
277	35.80	2224	Iotai	574.56		100.00	
23	0.34	2224					
4	0.26		DATE: 1/11/00 GEAR TY	PE: PT No:7	PROJEC POSITION	T STATION	1335 N: 1191
	99.99		TIME :03:30:28 04:00:04 30 (min)	Purpose co	ode: 1	Long W	1700
			LOG : 675.68 677.44 1.51 FDEPTH: 10 10	Area code GearCond.c	r 5 oder		
PF	ROJECT STATION	:1187	BDEPTH: 16 21 Towing dir: 270ø Wire out:	Validity of 150 m Speed	ode: l: 30 kn*1	.0	
12 POSI	Long W	1315 1658	Sorted: 32 Kg Total catch:	342.31	CATCH/HO	UR: 68	34.62
e code: ode :	1 5						
ty code:			SPECIES	CATCH/HOU weight num	R & OF	TOT. C	SAMP
peed: 30	Kn*10		Brachydeuterus auritus Sardinella maderensis	390.00 81.20	5440 1040	56.97 11.86	2233
8 CATC	CH/HOUR: 123	9.48	Pomadasys jubelini Pomadasys incisus	47.60 40.40	120 220	6.95 5.90	
/HOUR	% OF TOT. C	SAMP	GERREIDAE Octopus vulgaris	25.20 23.60	260 20	3.68 3.45	
numbers 8230	47.53		Galeoides decadactylus Arius heudeloti	13.20 10.80	80 40	1.93 1.58	
5487 492	23.33 14.02		Pomadasys jubelini Carcharhinus limbatus	9.12 8.80	20 2	1.33	
211 563	5.96 4.88	2226	Decapterus punctatus Pagellus bellottii	8.00 6.02	4 34	1.17	
17	1.25 1.25		Chloroscombrus chrysurus Selene dorsalis	4.80	60 20	0.70	
35 52	0.54		Dactylopterus volitans Trichiurus lepturus	2.40	20	0.35	
35	0.17		SQUSE01 Scomberomorus tritor	1.76	8	0.26	
4	0.04		Sparus caeruleostictus * Penaeus kerathurus	1.44	6	0.21	
	99.24		Pagrus pagrus Lutjanus dentatus	0.80	2	0.12	
			Penaeus notialis	0.32	26	0.05	
			Total	684.62		100.02	

		Р	ROJECT STAT	FION: 1192
DATE: 1/11/00 GEAR TY start stop duration	PE: PT Noi	4 POS	ITION:Lat	N 1335 W 1709
TIME :05:33:21 06:07:03 34 (min LOG : 685 37 687 16 1 77) Purpose	code:	1	
FDEPTH: 0 0	GearCond	1. code :	5	
Towing dir: 270ø Wire out:	150 m Spe	ed: 30	kn*10	
Sorted: 38 Kg Total catch:	180.98	CAT	CH/HOUR:	319.38
SPECTES	CATCH (IOUB	a on mom	
Chlavescenbrus, shuusuus	weight r	umbera	* OF TOT.	с замр
Sardinella aurita	81.48	739 524	25.51 25.41	2234
Brachydeuterus auritus Sardinella maderensis	80.05 41.77	946 454	25.06 13.08	2235
Sphyraena guachancho Decapterus rhonchus	18.21 6.83	7 41	5.70	
Decapterus punctatus Arius heudeloti	4.61	184	1.44	
Selene dorsalis Remora remora	2.22	25	0.70	
Sepia officinalis hierredda	0.16	25	0.05	
Total	319.39		100.00	
DATE: 1/11/00 GEAR TY	PE: BT No:2	PI POST	ROJECT STAT	TON: 1193
start stop duration	Dues-	and -	Long	W 1701
LOG : 763,89 765,49 1,58	Area cod	le i	4	
EDEPTH: 23 25 BDEPTH: 23 25	GearCond Validity	code:		
Towing dir: 270ø Wire out:	120 m Spe	ed: 30	kn*10	
Sorted: 66 Kg Total catch:	1421.15	CATO	CH/HOUR :	2842.30
SPECIES	CATCH/H	OUR	% OF TOT.	C SAMP
Brachydeuterus auritus	weight n 1265.06	umbers 196510	44.51	
Chloroscombrus chrysurus Pagellus bellottii	1213.46 76.54	15222 558	42.69	
Decapterus rhonchus Sphyraena guachancho	67.08	430	2.36	2238
Pomadasys incisus Galecides decadactylus	43.00	214	1.51	
Sparus pagrus africanus *	18.92	42	0.67	
Sardinella aurita Pseudupeneus prayensis	$16.34 \\ 16.34$	86 86	0.57	2237
Pagellus acarne GERREIDAE	16.34 10.32	86 86	0.57	
Selene dorsalis	7.74	86	0 27	
Sardinella maderensis	1.72	86	0.06	2236
Sardinella maderensis — Total	1.72	86	0.06 	2236
Sardinella maderensis Total DATE: 1/11/00 GEAR TYI start stop duration TIME :16:38:14 17:07:134 29 (min) LOG : 700.88 782.34 1.45 FOEPTH: 16 15 BDEPTH: 16 15	1.72 2042.30 PE: BT No:2 Purpose Area cod GearCond Validity	B6 PR POSI code: .code: .code:	0.06 99.97 OJECT STAT: TION:Lat Long 1 4	2236 ION:1194 N 1349 W 1658
Sardinella maderensis Total DATE: 1/11/00 GEAR TYI start stop duration TIME :16:38:14 17:07:34 29 (min) LOG : 700.88 702.34 1.45 FDEPTH: 16 15 BDEPTH: 16 15 Towing dir: 140@ Wire out; Sorted: 18 Kg	1.72 2842.30 PE: BT No:2 Purpose Area cod GearCond validity 90 m Spec	B6 PR POSI code: code: code: ed: 30	0.06 99.97 OJECT STAT TION:Lat Long 1 4 kn*10	2236 ION:1194 N 1349 W 1656
Sardinella maderensis Total DATE: 1/11/00 GEAR TY start stop duration TIME : 16:38:14 17:07:134 29 (min) LGG : 780.88 (15) FDEPTH: 16 15 BDEPTH: 16 15 BDEPTH: 16 45 Towing dir: 140e Wire out: Sorted: 39 Kg Total catch:	1.72 2842.30 PE: BT No:2 Purpose (Area code GearCond Validity 90 m Spec 517.92	B6 PR POSI code: e : .code: code: ed: 30 CATC	0.06 99.97 0.JECT STAT TION:Lat Long 1 4 kn*10 H/HOUR: 1	2236 ION:1194 N 1349 W 1658 I071.56
Sardinella maderensis Total DATE: 1/11/00 GEAR TY start stop duration TIME : 16:138:144 17:07:134 29 (min) LGG : 700.88 17:07:134 29 (min) LGG : 700.88 15 FDEPTH: 16 15 DEPTH: 16 15 Towing dir: 1400 Wire out: Sorted: 39 Kg Total catch: SPECIES	1.72 2842.30 PE: BT No:2 Purpose 4 Area code GearCond Validity 90 m Spec 517.92 CATCH/MK weight m	B6 PR POSI code: code: code: code: d: 30 CATC	0.06 99.97 OJECT STAT. TION:Lat Long 1 4 kn*10 H/HOUR: 1 % OF TOT. C	2236 ION:1194 N 1349 W 1658 1071.56 Z SAMP
Sardinella maderensis Total DATE: 1/11/00 GEAR TYI start stop duration TIME : 16:138:14 17:07:134 29 (min) LGG : 700.88 707:134 1.45 FDEPTH: 16 15 DEPTH: 16 15 Towing dir: 1406 Wire out: Sorted: 39 Kg Total catch: SPECIES Brachydeuterus auritus Pomadagay iubelini	1.72 2842.30 PE: BT No:2 PE: BT No:2 PE: BT No:2 Area cod GearCond Validity 90 m 52 517.92 CATCH/MK weight mu 327.60	B6 PR POSI code: code: code: d: 30 CATC DUR imbers 4734 888	0.06 99.97 0JECT STAT TION:Lat Long 1 4 kn*10 H/HOUR: 3 30.57 0.5 05	2236 N 1349 W 1658 1071.56 Z SAMP
Sardinella maderensis Total DATE: 1/11/00 GEAR TYI start stop duration TIME : 16:138:14 17:07:134 29 (min) LGG : 700.88 7:07:134 1.45 FDEPTH: 16 15 DDEPTH: 16 15 Towing dir: 140e Wire out: Sorted: 39 Kg Total catch: SPECIES Drachydeuterus auritus Pomadasya jubelini Alectis alexandrinus	1.72 2842.30 PE: BT No:2 PE: BT No:2 PUrpose Area cod GearCond Validity 90 m 527.92 CATCH/MK weight mw 327.60 277.03 174.83	96 PR POSI code: e : code: ed: 30 CATC OUR imbers 4734 888 188	0.06 99.97 0JECT STAT TION:Lat Long 4 kn+10 N/HOUR: J 30.57 25.85 16.32	2236 N 1349 W 1658 1071.56 Z SAMP
Sardinella maderensis Total DATE: 1/11/00 GEAR TYI start stop duration TIME : 16:138:14 17:07:134 29 (min; LGG : 700.88 782.34 1.45 FDEPTH: 16 15 DDEPTH: 16 15 Towing dir: 140e Wire out: Sorted: 39 Kg Total catch: SPECIES Brachydeuterus auritus Pomadasys jubelini Alectis alexandrinus Sphyraena guachancho Galeoidea decadactylus	1.72 2842.30 PE: BT No:2 PE: BT No:2 PUrpose - Area cod GearCond Validity 90 m 50 CATCH/MK weight m 327.60 277.03 174.83 143.09 48.41	B6 PR POSI code: code: ed: 30 CATC CATC DUR imbers 4734 888 188 188 403	0.06 99.97 0JECT STAT TION:Lat Long 4 km*10 N/HOUR: J 30.57 22.55 16.32 13.35 4.52	2236 N 1349 W 1658 1071.56 Z SAMP
Sardinella maderensis Total DATE: 1/11/00 GEAR TYI start stop duration TIME : 16:138:14 17:07:134 29 (min; LGG : 700.88 782.34 1.45 FDEPTH: 16 15 DDEPTH: 16 15 Towing dir: 140e Wire out: Sorted: 39 Kg Total catch: SPECIES Brachydeuterus auritus Pomadasya jubelini Alectis alexandrinus Sphyraena guachancho Galeoides decadactylus Sardinella maderensis Pagrus pagrus	1.72 2842.30 PE: BT No:2 PE: BT No:2 PUIPonee Area cod GearCond Validity 90 m 50 CATCH/MK weight m 327.60 277.03 174.83 143.09 48.41 27.43 21.52	86 PR POSI code: ed: 30 CATC CATC DUR 1mbers 4734 888 188 188 188 269 188 54	0.06 99.97 0JECT STAT TION:Lat Long 1 4 kn+10 N/HOUR: J 30.57 25.56 16.32 13.35 4.52 2.56 2.01	2236 N 1349 W 1658 1071.56 Z SAMP 2239
Sardinella maderensis Total DATE: 1/11/00 GEAR TYI start stop duration TIME : 16:138:14 17:07:134 29 (min; LGG : 700.88 782.34 1.45 FDEPTH: 16 15 DDEPTH: 16 15 Towing dir: 140e Wire out: Sorted: 39 Kg Total catch: SPECIES Brachydeuterus auritus Pomadasya jubelini Alectis alexandrinus Sphyraena guachancho Galeoides decadactylus Sardinella maderensis Pagrus pagrus Chloroscombrus chrysurus Decapterus rhonchus	1.72 2842.30 PE: BT No:2 PE: BT No:2 PUIPORe- Area cod GearCond Validity 90 m 592 CATCH/MK weight m 327.60 277.03 174.83 143.09 48.41 27.43 21.52 14.52 14.52 12.91	86 PR POSI code: ed: 30 CATC code: ed: 30 CATC DUR 1888 1888 1888 1888 1888 1888 1888 54 54 54	0.06 99.97 0JECT STAT TION:Lat Long 1 4 kn+10 N/HOUR: J 30.57 25.56 16.32 13.35 4.52 2.56 2.01 1.36 1.20	2236 N 1349 W 1658 1071.56 Z SAMP 2239 2240
Sardinella maderensis Total DATE: 1/11/00 GEAR TYI start stop duration TIME : 16:138:14 17:07:134 29 (min; LGG : 700.88 782.34 1.45 FDEPTH: 16 15 DDEPTH: 16 15 Towing dir: 140e Wire out: Sorted: 39 Kg Total catch: SPECIES Brachydeuterus auritus Pomadasya jubelini Alectis alexandrinus Sphyraena guachancho Galeoides decadactylus Sardinella maderensis Pagrus pagrus Chloroscombrus chrysurus Decapterus rhonchus GERREIDAB	1.72 2842.30 PE: BT No:2 PE: BT No:2 PUIPORe- Area cod GearCond Validity 90 m Spec 517.92 CATCH/JK weight m 327.60 277.03 174.83 143.09 40.41 27.43 21.52 14.52 12.37 5.92	86 PR POSI code: e : code: ed: 30 CATC DUR imbers 4734 888 188 188 188 54 188 188 188 188 188 188 188 188 188 18	0.06 99.97 0JECT STAT TION:Lat Long 1 4 kn+10 N/HOUR: J 30.57 25.85 16.32 13.35 4.52 2.56 2.01 1.36 1.20 0.57	2236 N 1349 W 1658 1071.56 Z SAMP 2239 2240
Sardinella maderensis Total DATE: 1/11/00 GEAR TYI start stop duration TIME : 16:38:14 17:07:134 29 (min; LGG : 700.88 782.34 1.45 FDEPTH: 16 15 DEPTH: 16 15 Towing dir: 140s Wire out: Sorted: 39 Kg Total catch: SPECIES Brachydeuterus auritus Pomadasy jubelini Alectis alexandrinus Sphyraena guachancho Galeoides decadactylus Sardinella maderensis Pagrus pagrus Chloroscombrus chrysurus Decapterus rhonchus GERREIDAE Sparus caeruleostictus * Pomadasys incisus Selene doraalis	1.72 2842.30 PE: BT No:2 PE: BT No:2 PE: BT No:2 PE: BT No:2 Area cod GearCond Validity 90 m Spec 517.92 CATCH/HK weight m 327.60 277.03 174.83 143.09 48.41 27.43 21.52 14.52 14.52 12.37 5.92 2.69	86 PR POSI code: e : code: code: code: di 30 CATC CATC CATC CATC CATC CATC CATC 100 100 100 100 100 100 100 100 100 10	0.06 99.97 0JECT STAT TION:Lat Long 1 4 kn*10 H/HOUR: J 30.57 25.85 16.32 13.35 14.52 2.56 2.01 1.36 1.20 1.35 1.35 1.35 1.35 1.35 1.35 1.35 1.35	2236 N 1349 W 1658 L071.56 Z SAMP 2239 2240
Sardinella maderensis Total DATE: 1/11/00 GEAR TY start stop duration TIME : 16:38:14 17:07:134 29 (min; LGG : 700.08 782.34 1.45 FDEPTH: 16 15 DEPTH: 16 15 Towing dir: 140s Wire out: Sorted: 39 Kg Total catch: SPECIES Brachydeuterus auritus Pomadasys jubelini Alectis alexandrinus Sphyraena guachancho Galeoiden decadactylus Gardinella maderensis Pagrus pagrus Chloroscombrus chrysurus Decapterus rhonchus GERREIDAE Sparua caeruleostictus * Pomadasy incisus Selene doraalis Paeudupeneus prayensis	1.72 2842.30 PE: BT No:2 PE: BT No:2 PE: BT No:2 PE: BT No:2 Area cod GearCond Validity 90 m Spec 517.92 CATCH/HK weight m 327.60 277.03 174.83 143.09 46.41 27.43 21.52 14.52 14.52 12.37 5.92 2.69 0.54	86 PR POSI code: code: code: sode: 30 CATC 000 880 880 880 880 880 880 80 186 54 198 54 198 880 81 880 81 880 840 3269 198 80 80 80 80 80 80 80 80 80 80 80 80 80	0.06 99.97 0JECT STAT TION:Lat Long 1 4 kn*10 H/HOUR: 1 30.57 25.85 16.32 13.35 16.32 2.56 2.01 1.36 1.25 0.55 0.25 0.25 0.25 0.25 0.25	2236 N 1349 W 1658 L071.56 Z SAMP 2239 2240
Sardinella maderensis Total DATE: 1/11/00 GEAR TYI start stop duration TIME :16:38:14 17:07:134 29 (min; LOG : 700.08 702.34 1.45 FDEPTH: 16 15 DDEPTH: 16 15 Towing dir: 140e Wire out: Sorted: 39 Kg Total catch: SPECIES Brachydeuterus auritus Pomadasy jubelini Alectis alexandrinus Sphyraena guachancho Galeoiden decadactylus Sardinella maderensis Pagrus pagrus Chloroscombrus chrysurus Decapterus rhonchus GERREIDAB Sparus caeruleoatictus * Pomadasys incisus Selene dorsalis Pseudupeneus prayensis Total	1.72 2842.30 PE: BT No:2 Purpose (Area code GearCond Validity 90 m Spect 517.92 CATCIL/MC weight m 327.60 277.03 174.83 143.09 46.41 27.43 21.52 14.52 12.37 5.92 2.69 2.69 2.69 2.69 0.54 1071.55	86 PR POST CODE: CODE: CODE: CODE: CATC OUR mimbers 800 403 269 180 54 403 269 180 54 100 54 100 54 27 27 27	0.06 99.97 0JECT STAT TION:Lat Long 1 4 kn+10 H/HOUR: 1 30.57 25.85 16.32 13.35 4.52 2.56 2.01 1.36 2.01 1.36 2.55 0.25 0.25 0.25 0.25 0.25	2236 N 1349 W 1658 1071.56 C SAMP 2239 2240
Sardinella maderensis Total DATE: 1/11/00 GEAR TYI start stop duration TIME : 16:38:14 17:07:134 29 (min) LoG : 780.88 (15) FDEPTH: 16 15 DOETH: 16 15 Towing dir: 1406 Wire out: Sorted: 39 Kg Total catch: SPECIES Prachydeuterus auritus Pomadasys jubelini Alectis alexandrinus Sphyraena guachancho Galeoides decadactylus Sardinella maderensis Pagrus pagrus Chloroscombrus chrysurus Decapterus rhonchus GERREIDAE Sparus caeruleostictus • Pomadays inisus Selene doraalis Selene doraalis	1.72 2842.30 PE: BT No:2 Atea cod GearCond validity 90 11 Strong 277.03 174.83 143.09 48.41 27.43 21.52 12.37 5.92 2.69 2.69 2.69 2.69 2.69 2.69 2.69 2	86 PR POSI ccode: .code	0.06 99.97 0JECT STAT TION:Lat Long 4 4 kn*10 N/HOUR: 1 30.57 25.85 16.32 2.56 2.01 1.36 1.05 0.155 0.25 0.25 0.25 0.99 99.99	2236 N 1349 W 1658 1071.56 Z SAMP 2239 2240
Sardinella maderensis Total DATE: 1/11/00 GEAR TYI start stop duration TIME : 16:138:14 17:07:134 29 (min; LGG : 700.88 782.34 1.45 FDEPTH: 16 15 DEPTH: 16 15 Towing dir: 140e Wire out: Sorted: 39 Kg Total catch: SPECIES Brachydeuterus auritus Pomadasya jubelini Alectis alexandrinus Sphyraena guachancho Galeoides decadactylus Sardinella maderensis Pagrus pagrus Chloroscombrus chrysurus Decapterus rhonchus GERREIDAS Speudasya incisus Selene doraalis Pseudupeneus prayensis Total DATE: 1/11/00 GEAR TYD	1.72 2842.30 PE: BT No:2 PE: BT No:2 PE: BT No:2 PE: BT No:2 CATCH/MC Weight m 327.60 277.03 174.83 143.09 48.41 27.43 27.43 21.52 12.91 12.37 5.92 2.69 0.54 1071.55 E: PT No:6	86 PR POSI code: c	0.06 99.97 0JECT STAT TION:Lat Long 1 4 kn+10 N/HOUR: J 30.57 25.56 2.01 1.35 4.52 2.56 2.01 1.36 1.20 1.35 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.2	2236 N 1349 W 1658 1071.56 Z SAMP 2239 2240 0N:1195 N 1355 N 1355
Sardinella maderensis Total DATE: 1/11/00 GEAR TYI start stop duration TIME : 16:38:14 17:07:34 29 (min; LGG : 700.88 782.34 1.45 FDEPTH: 16 15 DDEPTH: 16 15 Towing dir: 140e Wire out: Sorted: 39 Kg Total catch: SPECIES Brachydeuterus auritus Pomadasya jubelini Alectis alexandrinus Sphyraena guachancho Galeoides decadactylus Sardinella maderensis Pagrus pagrus Chloroscombrus chrysurus Decapterus rhonchus GERREIDAS Splene doraalis Posudasya incisus Selene doraalis Posudasya incisus Selene doraalis Posudupeneus prayensis Total DATE: 1/11/00 GEAR TYF start stop duration TIME : 18:21:19 20:01:27 32 (min)	1.72 2842.30 PE: BT No:2 PE: BT No:2 PE: BT No:2 PE: BT No:2 CATCH/MC weight m 327.60 277.03 174.83 143.09 48.41 27.43 27.43 21.52 12.91 12.37 5.92 2.69 0.54 1071.55 E: PT No:6 Purpose c	86 PR POSI code: .code:	0.06 99.97 0JECT STAT TION:Lat Long 1 4 kn+10 N/HOUR: J 30.57 25.56 2.01 1.35 4.52 2.56 2.01 1.36 1.20 1.35 0.55 0.25 0.25 0.25 0.25 0.25 0.25 0.2	2236 N 1349 W 1658 1071.56 Z SAMP 2239 2240 0N:1195 N 1355 W 1709
Sardinella maderensis Total DATE: 1/11/00 GEAR TYI start stop duration TIME : 16:138:14 17:07:134 29 (min) LGG : 700.88 782.34 1.45 FDEPTH: 16 15 DDEPTH: 16 15 Towing dir: 140e Wire out: Sorted: 39 Kg Total catch: SPECIES Brachydeuterus auritus Pomadasya jubelini Alectis alexandrinus Sphyraena guachancho Galeoides decadactylus Sardinella maderensis Pagrus pagrus Chloroscombrus chrysurus Decapterus rhonchus GERREIDAS Splana caruleoatictus * Pomadasya incisus Selene doraalis Pseudupeneus prayensis Total DATE: 1/11/00 GEAR TYE start stop duration TIME : 18:1:19 20:01:27 32 (min) LGG : 800.96 802.62 1.64 PDEPTH: 5 5	1.72 2842.30 PE: BT No:2 PE: BT No:2 PE: BT No:2 PE: BT No:2 CATCH/MC Weight m 327.60 277.03 174.83 143.09 48.41 27.43 27.43 21.52 12.91 12.37 5.92 2.69 0.54 1071.55 E: PT No:6 Purpose c Area code GearCond.	86 PR POSI ccode: ccode	0.06 99.97 0JECT STAT TION:Lat Long 1 4 kn+10 N/HOUR: J 30.57 25.56 2.01 1.35 4.52 2.56 2.01 1.36 1.20 1.36 1.20 1.35 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.2	2236 N 1349 W 1658 1071.56 Z SAMP 2239 2240 0N:1195 N 1355 W 1709
Sardinella maderensis Total DATE: 1/11/00 GEAR TYI start stop duration TIME : 16:38:14 17:07:34 29 (min; LGG : 700.88 782.34 1.45 FDEPTH: 16 15 DEPTH: 16 15 Towing dir: 140e Wire out: Sorted: 39 Kg Total catch: SPECIES Drachydeuterus auritus Pomadasy jubelini Alectis alexandrinus Sphyraena guachancho Galeoides decadactylus Sardinella maderensis Pagrus pagrus Chloroscombrus chrysurus Decapterus rhonchus GERREIDAE Speudupeneus prayensis Total DATE: 1/11/00 GEAR TYP start stop duration TIME : 18:21.19 20:01:27 32 (min) LGG : 800.96 002.62 1.64 FDEPTH: 5 5 DEPTH: 34 32 Towing dir: 90e Wire out:	1.72 2842.30 PE: BT No:2 PE: BT No:2 PE: BT No:2 PE: BT No:2 Area cod GearCond Validity 90 m Spec 517.92 CATCH/MK weight m 327.60 277.03 174.83 143.09 48.41 27.43 21.52 14.52 14.52 12.37 5.92 2.69 0.54 1071.55 E: PT No:6 Purpose c Area code GearCond. Validity 150 m Spec	86 PR POSI ccode: ccode: ccode: ccode: cod	0.06 99.97 OJECT STAT TION:Lat Long 1 4 kn+10 N/HOUR: 1 30.57 25.85 16.32 13.35 4.52 2.56 2.01 1.36 1.20 1.35 0.55 0.25 0.25 0.25 0.25 0.25 0.25 0.2	2236 N 1349 W 1658 1071.56 Z SAMP 2239 2240 0N:1195 N 1355 W 1709
Sardinella maderensis Total DATE: 1/11/00 GEAR TYI start stop duration TIME :16:38:14 17:07:34 29 (min. LGG : 780.88 782.34 1.45 FDEPTH: 16 15 DEPTH: 16 15 Towing dir: 140s Wire out: Sorted: 39 Kg Total catch: SPECIES Brachydeuterus auritus Pomadasy jubelini Alectis alexandrinus Sphyraena guachancho Galeoides decadactylus Sardinella maderensis Pagrus pagrus Chloroscombrus chrysurus Decapterus rhonchus GERMEIDAE Specules DATE: 1/11/00 GEAR TYP start stop duration Time :18:21:19 20:01:27 32 (min) LGG : 800.96 802.62 1.64 FDEPTH: 3 4 32 Toving dir: 90s Wire out: Sorted: 71 Kg Total catch:	1.72 2842.30 PE: BT No:2 PE: BT No:2 PE: BT No:2 PE: BT No:2 CATCIL/RK weight mi 327.60 277.03 174.83 143.09 48.41 27.43 21.52 14.52 12.91 12.37 5.92 2.69 0.54 1071.55 E: PT No:6 Purpose c Area code GearCond, Validity 150 m Spee 1505.73	86 PR POSI code: .code:	0.06 99.97 0JECT STAT TIDN:Lat Long 1 4 kn+10 H/H0UR: 1 4 6 OF TOT. c 30.57 25.85 16.32 13.35 25.85 2.56 2.61 1.36 1.20 0.15 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.2	2236 N 1349 W 1659 1071.56 C SAMP 2239 2240 ON:1195 N 1355 W 1709 823.24
Sardinella maderensis Total DATE: 1/11/00 GEAR TYI start stop duration TIME : 16:38:14 17:07:34 29 (min) LoG : 700.88 702.34 1.45 FDEPTH: 16 15 DDEPTH: 16 15 Towing dir: 1406 Wire out: Sorted: 39 Kg Total catch: SPECIES Prachydeuterus auritus Pomadasys jubelini Alectis alexandrinus Sphyraena guachancho Galeoides decadactylus Sardinella maderensis Pagrus pagrus Chloroscombrus chrysurus Decapterus rhonchus GERREIDAE Specues pronchus Selene dorsalis Selene dorsalis Selene dorsalis Selene dorsalis Total DATE: 1/11/00 GEAR TYP start stop duration TIME : 18:21:19 20:01:27 32 (min) LoG : 000.96 002.62 1.64 FDEPTH: 3 5 5 DDEPTH: 34 32 Towing dir: 90e Wire out: Sorted: 71 Kg Total catch:	1.72 2842.30 PE: BT No:2 PE: BT No:2 PE: BT No:2 PE: BT No:2 PE: BT No:2 CATCH/HK Weight m 327.60 277.03 174.83 143.09 48.41 27.43 21.52 12.37 12.37 5.92 2.69 2.55 10071.55 E: PT No:6 Purpose c Area code 1505.73 CATCH/HO	B6 PR POSI ccode: ccode: ccode: ccode: d108 4734 000 mbbrns 4734 000 mbbrns 4734 000 108 4108 010 108 01 027 27	0.06 99.97 0JECT STAT TION:Lat Long 4 4 kn+10 N/HOUR: 1 4 0 OF TOT. C 30.57 25.85 16.32 2.56 2.01 1.35 4.52 2.56 2.01 1.35 4.52 2.56 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	2236 N 1349 W 1658 1071.56 2 SAMP 2239 2240 0N:1195 N 1355 W 1709 823.24 SAMP
Sardinella maderensis Total DATE: 1/11/00 GEAR TYI start stop duration TIME : 16:38:14 17:07:134 29 (min) LoG : 700.88 7:07:134 29 (min) LoG : 700.88 7:07:134 29 (min) LoG : 700.88 7:07:134 29 (min) LoG : 700.89 7:07:134 29 (min) LoG : 700.89 7:07:134 29 (min) LoG : 700.89 7:07:134 29 (min) Sorted: 19 Kg : 1040 Wire out: Sorted: 39 Kg : Total catch: SPECIES Drachydeuterus auritus Pomadasys jubelini Alectis alexandrinus Sphyraena guachancho Galeoides decadactylus Sardinella maderennis Pagrus pagrus Chloroscombrus chrysurus Decapterus rhonchus GERREIDAE Specues prayensis Total DATE: 1/11/00 GEAR TYP start stop duration TIME : 18:21:19 20:01:27 32 (min) LoG : 000.96 002.62 1.64 FDEPTH: 3 5 5 DDEPTH: 34 32 Towing dir: 900 Wire out: Sorted: 71 Kg : Total catch: SPECIES Chloroscombrus chrysurus	1.72 2042.30 PE: BT No:2 PE: BT No:2 PUIPDOBE Area cond GearCond validity 90 m 50 277.03 174.83 143.09 40.41 27.43 21.52 12.37 12.37 5.92 2.69	B6 PR POSI ccode: ccode: ccode: de: mbbers 4734 080 188 4734 080 188 403 200 188 188 188 188 188 27 27	0.06 99.97 0JECT STAT TION:Lat Long 1 4 kn+10 N/HOUR: 1 30.57 25.85 16.32 2.56 2.01 1.35 4.52 2.56 2.01 1.35 4.52 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0	2236 N 1349 W 1658 1071.56 Z SAMP 2239 2240 0N:1195 N 1355 W 1709 823.24 SAMP
Sardinella maderensis Total DATE: 1/11/00 GEAR TYI start stop duration TIME : 16:38:14 17:07:134 29 (min) LoG : 780.88 (1.4) PDEPTH: 16 15 DDEPTH: 16 15 DDEPTH: 16 15 Sorted: 39 Kg Total catch: Species Prachydeuterus auritus Pomadasys jubelini Alectis alexandrinus Sphyraena guachancho Galeoides decadactylus Sardinella maderensis Pagrus pagrus Chloroscombrus chrysurus Decapterus shonchus GERREIDAE Sparus caeruleostictus • Pomadasys incisus Selene dorsalis Selene dorsalis	1.72 2042.30 PE: BT No:2 PE: BT No:2 PE: BT No:2 PUIPDOBE CATCH/HK Weight mu 327.60 277.03 174.83 143.09 48.41 27.43 21.52 14.52 12.37 5.92 2.69 2.55	B6 PR POSI ccode: ccode: ccode: de: mbbers 4734 808 4734 808 403 200 188 64 108 54 108 61 107 27 27 27 <td>0.06 99.97 OJECT STAT TION:Lat Long 1 4 kn+10 N/HOUR: 2 30.57 25.85 16.32 2.56 2.01 1.36 1.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0</td> <td>2236 ION: 1194 N 1349 W 1659 IO71. 56 Z SAMP 2239 2240 ON: 1195 N 1355 W 1709 823. 24 SAMP 2241</td>	0.06 99.97 OJECT STAT TION:Lat Long 1 4 kn+10 N/HOUR: 2 30.57 25.85 16.32 2.56 2.01 1.36 1.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0	2236 ION: 1194 N 1349 W 1659 IO71. 56 Z SAMP 2239 2240 ON: 1195 N 1355 W 1709 823. 24 SAMP 2241
Sardinella maderensis Total DATE: 1/11/00 GEAR TYI start stop duration TIME : 16:38:14 17:07:134 29 (min) LoG : 780.88 (20.34 1.45 FDEPTH: 16 15 BDEPTH: 16 15 Towing dir: 140e Wire out: Sorted: 39 Kg Total catch: SPECIES Prachydeuterus auritus Pomadasys jubelini Alectis alexandrinus Sphyraena guachancho Galeoides decadactylus Sardinella maderensis Pagrus pagrus Chloroscombrus chrysurus Decapterus rhonchus GERREIDAE Sparus caeruleostictus • Pomadasys incisus Selene dorsalis Selene dorsali	1.72 2042.30 PE: BT No:2 PE: BT No:2 PE: BT No:2 PUTPOSE Area cod GearCond validity 90 m 527.60 277.03 174.83 143.09 48.41 27.43 21.52 14.52 12.37 5.92 2.69 2.73 CATCH/HO weight nu 1295.41 720.56 252.79 200.81	B6 PR POSI ccode: ccode: ccode: de: mbbers 4734 808 4734 808 403 200 188 64 108 54 108 64 108 64 108 61 108 61 108 61 108 61 108 61 108 61 108 61 108 61 119.31 3859 2402 1536	0.06 99.97 OJECT STAT TION:Lat Long L 4 kn*10 N/HOUR: 2 4 0 OF TOT. C 30.57 25.85 16.32 2.56 2.01 1.33 4.55 0.25 0.55 0.25 0.55 0.25 0.55 0.25 0.55	2236 ION: 1194 N 1349 W 1658 IO71. 56 Z SAMP 2239 2240 ON: 1195 N 1355 W 1709 823. 24 SAMP 2241 2242
Sardinella maderensis Total DATE: 1/11/00 GEAR TYI start stop duration TIME : 16:38:14 17:07:134 29 (min) LoG : 780.88 702.34 1.45 FDEPTH: 16 15 BDETTH: 16 15 Towing dir: 140e Wire out: Sorted: 39 Kg Total catch: SPECIES Prachydeuterus auritus Pomadasys jubelini Alectis alexandrinus Sphyraena guachancho Galeoides decadactylus Sardinella maderensis Pagrus pagrus Chloroscombrus chrysurus Decapterus rhonchus GERREIDAE Sparus caeruleostictus * Pomadasys incisus Selene doraalis Selene doraali	1.72 2042.30 PE: BT No:2 PE: BT No:2 PE: BT No:2 PUTPOSE - Area code GearCond validity 90 m Spec 517.92 CATCH/HC weight mu 12.37 5.92 2.69 3.54 1071.55 E: PT No:6 Purpose c Area code GearCond, Validity 150 m Spec 1505.73 CATCH/HO weight nu 1295.44 720.56 252.79 20.61 126.79 91.35	B6 PR POSI code: : : : : :	0.06 99.97 OJECT STAT TION:Lat Long L 4 kn+10 M/HOUR: 2 30.57 25.85 16.32 2.56 2.01 1.36 1.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0	2236 ION: 1194 N 1349 W 1658 IO71.56 Z SAMP 2239 2240 ON: 1195 N 1355 W 1709 823.24 SAMP 2241 2242 2243
Sardinella maderensis Total DATE: 1/11/00 GEAR TYI start stop duration TIME :16:38:14 17:07:34 29 (min. LGG : 780.88 782.34 1.45 FDEPTH: 16 15 BDEPTH: 16 15 Towing dir: 140s Wire out: Sorted: 39 Kg Total catch: SPECIES Brachydeuterus auritus Pomadasy jubelini Alectis alexandrinus Sphyraena guachancho Galeoides decadactylus Sardinella maderensis Pagrus pagrus Chloroscombrus chrysurus Decapterus rhonchus GERMEIDAE Species DATE: 1/11/00 GEAR TYP start stop duration Time :18:21:19 20:01:27 32 (min) LGG : 800.96 802.62 1.64 FDEPTH: 34 32 Toving dir: 90s Wire out: Sorted: 71 Kg Total catch: SPECIES Chloroscombrus chrysurus Sardinella aurita Brachydeuterus auritus Sorted: 71 Kg Total catch: SPECIES	1.72 2842.30 PE: BT No:2 PE: BT No:2 PE: BT No:2 PE: BT No:2 PE: BT No:2 CATCIL/HK weight mu 327.60 277.03 174.83 143.09 48.41 27.43 214.52 12.91 12.37 5.92 2.69 0.54 1071.55 E: PT No:6 Purpose c Area code GearCond. Validity 150 m Spee 1505.73 CATCIL/HC Weight nu 2.52 2.69 0.54 1071.55 E: PT No:6 Purpose c Area code GearCond. Validity 150 m Spee 1505.73 CATCIL/HC	B6 PR POSI code: code: code: code: code: atom CATC DUR mbers 106 S4 106 S4 106 CATCI code: code: c	0.06 99.97 OJECT STAT TIDN:Lat Long 1 4 kn*10 H/HOUR: 1 4 0 OF TOT. c 30.57 25.85 16.32 13.35 2.56 2.66 2.01 1.36 1.25 0.25	2236 ION: 1194 N 1349 W 1658 IO71.56 Z SAMP 2239 2240 ON: 1195 N 1355 W 1709 823.24 SAMP 2241 2242 2243
Sardinella maderensis Total DATE: 1/11/00 GEAR TYI start stop duration TIME :16:38:14 17:07:34 29 (min) LGG : 700.88 782.34 1.45 FDEPTH: 16 15 BDEPTH: 16 15 Towing dir: 140s Wire out: Sorted: 39 Kg Total catch: SPECIES Brachydeuterus auritus Pomadasys jubelini Alectis alexandrinus Sphyraena guachancho Galeoides decadactylus Sardinella maderensis Pagrus pagrus Chloroscombrus chrysurus Decapterus rhonchus GERMEIDAE Sparus caeruleostictus * Pomadasy incisus Selene doraalis Pseudupeneus prayensis Total DATE: 1/11/00 GEAR TYP start stop duration TIME :18:1:19 20:01:27 32 (min) LGG : 800.96 802.62 1.64 FDEPTH: 34 32 Toving dir: 90s Wire out: Sorted: 71 Kg Total catch: SPECIES Chloroscombrus chrysurus Sardinella madrensis Decapterus rhonchus Chloroscombrus chrysurus Sardinella madrensis Decapterus rhonchus PENETES	1.72 2842.30 PE: BT No:2 PE: BT No:2 PE: BT No:2 PE: BT No:2 PE: BT No:2 CATCIL/HK weight mu 327.60 277.03 174.83 143.09 48.41 27.43 21.52 14.52 12.91 12.37 5.92 2.69 0.54 1071.55 E: PT No:6 Purpose c Area code GearCond. Validity 150 m Spee 1505.73 CATCIL/HC Weight nu 2.52 2.69 0.54 150.57 2.69 0.54 150.57 2.55 150.57 2.55 12.06 2.55 12.06 2.55 1.55 1.55 2.69 0.54 1.55 1.55 2.69 0.54 1.55 1.5	B6 PR POSI code: code: code: code: code: code: code: code: post code:	0.06 99.97 OJECT STAT TIDN:Lat Long 1 4 kn+10 H/HOUR: 1 4 0 OF TOT. c 30.57 25.85 16.32 13.35 2.56 2.66 2.01 1.36 1.25 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.	2236 ION: 1194 N 1349 W 1658 IO71.56 Z SAMP 2239 2240 ON: 1195 N 1355 W 1709 823.24 SAMP 2241 2242 2243 2244
Sardinella maderensis Total DATE: 1/11/00 GEAR TYI start stop duration TIME :16:38:14 17:07:34 29 (min) LGG : 700.88 702.34 1.45 FDEPTH: 16 15 DDETTH: 16 15 DDETTH: 16 15 Sorted: 39 Kg Total catch: Species Drachydeuterus auritus Pomadasys jubelini Alectis alexandrinus Sphyreena guachancho Galeoides decadactylus Sardinella maderensis Peagua pagus Chloroscombrus chrysurus Decapterus rhonchus GERREIDAE Species DATE: 1/11/00 GEAR TYP start stop duration TIME :18:21:19 20:01:27 32 (min) LGG : 800.96 802.62 1.64 FDEPTH: 5 5 5 DDETTH: 34 32 Toving dir: 900 Wire out: Sorted: 71 Kg Total catch: SPECIES Chloroscombrus chrysurus Sardinella maderensis Decapterus rhonchus GERREIDAE Sorted: 71 Kg Total catch: SPECIES Chloroscombrus chrysurus Sardinella aurita Trachurus lineatus Date: 1/1 Kg Total catch: SPECIES	1.72 2042.30 PE: BT No:2 PE: BT No:2 PE: BT No:2 PUIPDOBE CATCH/HK Weight mi 327.60 277.03 174.83 143.09 40.41 27.43 21.52 12.37 14.52 12.37 5.92 2.69 2.55 5.57 3 CATCH/HO weight nu 1265, 79 20, 61 127, 56 127, 56 14, 96 14, 44 4 4	B6 PR POSI code: : : :: :	0.06 99.97 OJECT STAT TION:Lat Long 1 4 kn*10 N/HOUR: 2 4 0 0 F TOT. C 30.57 25.85 1.33 4.52 2.56 2.01 1.36 1.35 0.25 0.55 0.25 0.55 0.25 0.55 0.25 0.55 0.25 0.55 0.25 0.55	2236 ION: 1194 N 1349 W 1659 IO71.56 Z SAMP 2239 2240 ON: 1195 N 1355 W 1709 823.24 SAMP 2241 2242 2243 2244

2822.85

99.99

Total

	YPE: PT No:	5 POS	ITION:Lat	N 1405
DATE: 2/11/00 GEAR 1 start stop duration			Long	11 1710
TIME :00:01:20 01:40:56 30 (mi	n) Purpose	code:	1	W 1/19
LOG : 855.12 856.97 1.82 FDEPTH: 5 5	Area co	ode i	4	
BDEPTH: 69 72	Validit	y code:		
Towing dir: 270ø Wire out	: 150 m Sp	eed: 40	kn*10	
Sorted: 11 Kg Total catch	11.49	CAT	CH/HOUR:	22.98
SPECIES	CATCH	HOUR	S OF TOT.	C SAMP
Prachusus treese	weight	numbers		0.0
Frachinocephalus myops	7.52	292	60,4 32,7	0
Loligo vulgaris	0.40	6	1.7	4
Remora remora Sardinella aurita	0.32	2	1.3	9
Sepia elegans	0.16	8	0.7	0
DPHIDIIDAE	0.12	292	0.5	2
Alloteuthis africana	0.08	4 52	0.3	5
Ariomma bondi	0.08	24	0.3	5
selene dorsalis	0.02	12	0.0	9
TOTAL	22.98		100.0	0
		р	ROJECT STA	TION:1197
DATE: 2/11/00 GEAR T	YPE: PT No:	4 POS	ITION:Lat	N 1405
TIME :03:20:41 03:21:09 30 (mi	n) Purpose	code:	Long	W 1708
LOG : 871.59 873.60 1.98	Area co	de i	4	
BDEPTH: 5 5 BDEPTH: 30 33	GearCon	d.code:		
Towing dir: 270ø Wire out	: 150 m Sp	eed: 40	kn*10	
Sorted: 67 Kg Total catch	: 1483.64	CAT	H/HOUR:	2967.28
PECIES	CATCH	HOUR	S OF TOT	С дамр
the termination of the second s	weight	numbers		_ oracle
Brachydeuterus auritus	2270.40 285.12	20636	76.5	1
archarhinus limbatus	227.04	44	7.6	5
ecapterus rhonchus	56.32	704	1.90	2246
ardinella maderensis	21.12	132	1.8	2245
ecapterus punctatus	18.48	132	0.63	2 2247
omadasys incisus elene dorsalis	10.56	44	0.30	5
	- D D	4.4	0.3	,
Dactylopterus volitans	4.40	44	0.15	5
Dactylopterus volitans Penaeus notialis Grachurus trecae	4.40	44 132	0.15	5
Nactylopterus volitans Penaeus notialis Trachurus trecae	4.40 4.40 4.40 2967.36	44 132 44	0.19 0.19 0.19 100.01	5 5 1 1 1001: 1198
Dactylopterus volitans Penaeus notialis Trachurus trecae Notal DATE: 2/11/00 GEAR TT start stop duration THE 166140157 68120133 16 (min LOG 1082.44 803.28 0.82	4.40 4.40 4.40 2967.36 (PE: PT No:) Purpose Area coo	44 132 44 7 PPF 7 POSI code: 1e :	0.1 0.1 0.1 100.01 00JECT STAT TION: Lat Long 1 4	5 5 710N:1198 N 1405 W 1704
Dactylopterus volitans Penaeus notialis Trachurus trecae Notal DATE: 2/11/00 GEAR T start stop duration TIME :86:40:57 88:20:33 16 (min LOG : 882.44 883.28 0.82 PDEPTH: 5 5 5.	4.40 4.40 4.40 2967.36 (PE: PT No:) Purpose Area con GearCome Validit	44 132 44 7 PF 7 POSI code: de : 1.code:	0, 1 0, 1 0, 1 0, 1 100, 0 0 0 0 1 0 0 1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1	55 57 57 57 57 57 57 57 57 57 57 57 57 5
hactylopterus volitans enaeus notialis Tachurus trecae otal DATE: 2/11/00 GEAR T start stop duration TIME :86:40:57 88:20:13 16 (min LOG : 882.44 803.28 0.82 FDEPTH: 5 5 DDEPTH: 19 22 Towing dir: 2700 Wire out:	4.40 4.40 4.40 2967.36 (PE: PT No:) Purpose Area con GearCom Validity : 150 m Spe	44 132 44 7 PF 7 POSI code: de : 1.code: 1.code: y code: ped: 30	0,1 0,1 0,1 0,1 100,000,0	5 5 710N:1198 N 1405 W 1704
actylopterus volitans enaeus notialis rachurus trecae otal DATE: 2/11/00 GEAR T start stop duration TIME : 86:40:57 88:20:133 16 (min LOG : 882.44 883.28 0.82 FDEPTH: 19 22 TOWING dir: 2700 Wire out: Sorted: 54 Kg Total catch:	4.40 4.40 2967.36 2967.36 (PE: PT No:) Purpose Area coc Gearconc validity 150 m Spe 53.96	44 132 44 7 POSI code: de : 1.code: y code: sed: 30 CATC	0,1 0,1 0,1 100,00	5 5 710N:1198 N 1405 W 1704 202.35
actylopterus volitans enaeus notialis rachurus trecae otal DATE: 2/11/00 GEAR T start stop duration TIME :86:40:57 80:20:33 16 (mir LOG : 802.44 803.28 0.02 FDEFTH: 5 5 BDEPTH: 19 22 Towing dir: 2700 Wire out: Sorted: 54 Kg Total catch: PECIES	4.40 4.40 4.40 2967.36 (PE: PT No: 2967.36 (PE: PT No: 40 2967.36 Area con GearCom Validity 150 m Spe 53.96 CATCH/I	44 132 44 7 POSI code: de : 1.code: ped: 30 CATC IOUR	0.1 0.1 0.1 100.01 00JECT STAT TION:Lat Long 1 4 kn*10 N/HOUR: % OF TOT.	с вамр
actylopterus volitans enacus notialis rachurus trecae otal DATE: 2/11/00 GEAR T start stop duration TIME :86:40:57 88:20:33 16 (min LOG : 882.44 883.28 0.82 FDEFTH: 5 5 BDEPTH: 5 5 BDEPTH: 19 22 Towing dir: 2700 Wire out: Sorted: 54 Kg Total catch: PECIES rachydeuterus auritus	4.40 4.40 4.40 2967.36 (PE: PT No: 2967.36 (PE: PT No: 40 2967.36 Area con Gearcone Validity 150 m Spe 53.96 CATCH/I weight 1 123.45	44 132 44 7 PPF 7 POSI code: de : 1.code: red: 30 CATC IOUR NUMBERS 153	0.11 0.12 0.12 0.12 0.12 0.12 100.01 0.0ECT STAT TION:Lat Long 1 4 kn*10 H/ROUR: % OF TOT.	с вамр
actylopterus volitans enaeus notialis rachurus trecae otal DATE: 2/11/00 GEAR T: start stop duration TIME: 166:40:57 88:20:33 16 (min LOG : 882.44 883.28 0.82 FOEFTH: 5 5 DDEPTH: 19 22 Towing dir: 270s Wire out: Sorted: 54 Kg Total catch: PECIES rachydeuterus auritus compterus thonchus	4.40 4.40 4.40 2967.36 (PE: PT No: 2967.36 (PE: PT No: 40 Area coo GearCon Validity 150 m Spe 53.96 CATCH/I weight r 123.45 38.36	44 132 44 7 PF 7 POSI code: de : 1,code: de : 1,code: y code: sed: 30 CATC 10UR 1534 461	0.11 0.12 0.12 100.01 100.01 100.01 100.01 100.01 100.01 100.01 100.01 10.01 10.01 10.01	стон: 1198 N 1405 W 1704 202.35 С SAMP 2248
actylopterus volitans enacus notialis rachurus trecae otal DATE: 2/11/00 GEAR T start stop duration TIME :86:40:57 88:20:33 16 (min LOG : 882.44 803.28 0.82 FDEPTH: 5 22 Towing dir: 270s Wire out: Sorted: 54 Kg Total catch: PECIES rachydeuterus auritus secapterus rhonchus ERREIDAE	4.40 4.40 4.40 2967.36 (PE: PT No: 2967.36 (PE: PT No: 1) Purpose Area con GearCon Validity 150 Spt 53.96 CATCH/I weight r 123.45 38.36 19.50 2 11	44 132 44 7 PPG 7 POSI de : 1.code: de : 1.code: de : 1.code: de : 1.code: de : 1.code: de : 1.code: 1	0.11 0.12 0.12 100.01 100.01 100.01 100.01 100.01 100.01 10.01 10.01 10.00 10.01 10.00 10.01 10.00 10.01 10.00 10.01 10.00 10.01 10.00 10.01 10.	стол: 1198 N 1405 W 1704 202. 35 C SAMP 2248
actylopterus volitans enacus notialis rachurus trecae otal DATE: 2/11/00 GEAR T start stop duration TIME :86:40:57 88:20:33 16 (min LOG : 882.44 883.28 0.82 FDEPTH: 5 5 BDEPTH: 19 22 Towing dir: 270e Wire out: Sorted: 54 Kg Total catch: PECIES rachydeuterus auritus ecapterus rhonchus SEREIDAE Inchaciona Limbatus	4.40 4.40 2967.36 (PE: PT No: 1) Purpose Area coor GearConr Validit; 150 m Spe 53.96 CATCH/I veight 7 123.45 38.36 19.50 7.13 4.05	44 132 44 7 Post code: ted: 1 2 code: red: 30 CATC 10UR 1534 461 184 56 4	0.11 0.12 0.12 100.01 100.01 100.01 100.01 100.01 100.01 100.01 100.01 100.01 100.01 10.01 10.01 10.05 9.64 3.52 2.000	стол; 1198 N 1405 W 1704 202. 35 C SAMP 2248
actylopterus volitans enacus notialis rachurus trecae otal DATE: 2/11/00 GEAR T start stop duration TIME :86:40:57 88:20:33 16 (mir LOG : 882.44 883.28 0.82 FDEFTH: 5 5 BDEFTH: 19 22 Towing dir: 270e Wire out: Sorted: 54 Kg Total catch: PECIES rachydeuterus auritus scapterus rhonchus GRENDAE Holcoscombrus chrysarus racharhaus limbatus pmadagys jubelini	4.40 4.40 4.40 2967.36 (PE: PT No:: 1) Purpose Area con GearCom Validity : 150 m Spe : 53.96 CATCH/I weight : 123.45 38.36 19.50 7.13 4.05 3.99	44 132 44 7 PP 7 POSI code: le : l.code: y code: sed: 30 CATC 10UR 1534 461 1844 461 1844 461 184 461	0.11 0.12 0.12 0.12 100.01 100	стом:1198 N 1405 W 1704 202.35 С БАМР 2248
actylopterus volitans enacus notialis rachurus trecae otal DATE: 2/11/00 GEAR T start stop duration TIME :86:40:57 88:20:33 16 (min LOG : 882.44 883.28 0.82 FDEFTH: 5 5 BDEPTH: 5 5 BDEPTH: 19 22 Towing dir: 2700 Wire out: Sorted: 54 Kg Total catch: PECIES rachydeuterus auritus ecapterus rhonchus ERREIDAE hloroscombrus chrysurus srcharhinus limbatus smadasy jubelini aleoides decadactylus	4.40 4.40 4.40 2967.36 (PE: PT No: ' a) Purpose Area coo Gearcom Validity : 150 m Spe : 53.96 CATCH/I weight r 123.45 38.36 19.50 7.13 4.05 3.98 3.00 1.35	44 132 44 7 PPF 7 POSI code: de : 1 code: de : 1 code: y code: y code: sed: 30 CATC 10UR 1534 461 156 4 8 15 11	0.11 0.12 0.12 0.12 0.12 0.12 0.12 0.12	стом; 1196 N 1405 W 1704 202.35 C SAMP 2248
actylopterus volitans enacus notialis rachurus trecae otal DATE: 2/11/00 GEAR T: start stop duration TIME: 166:40:57 80:20:33 16 (min LOG : 802.44 803.28 0.82 FDEFTH: 5 5 BDEPTH: 19 22 Towing dir: 270ø Wire out: Sorted: 54 Kg Total catch: PECTES rachydeuterus auritus scapterus rhonchus SGREIDAE hocoscombrus chrysurus archarhinus limbatus smadasys jubelini aleoied decadactylus elened doradis	4.40 4.40 4.40 2967.36 (PE: PT No: 2967.36 (PE: PT No: 40 2967.36 Area coo Cearcon Validity 150 m Spe 53.96 CATCH// Weight 5 123.45 38.36 19.50 7.13 4.05 3.98 3.00 1.35 0.83	44 132 44 7 PP631 code: de : 1.code: y code: y code: eed: 30 CATC toUR 100R 104 534 461 184 51 11 8	0.11 0.11 0.12 100.0100000000	стол:1198 N 1405 W 1704 202.35 С БАМР 2248
actylopterus volitans enaeus notialis Tachurus trecae otal DATE: 2/11/00 GEAR T start stop duration TIME :86:40:57 88:20:13 16 (min LOG : 882.44 883.28 0.82 FDEPTH: 5 5 DDEPTH: 19 22 Towing dir: 2706 Wire out: Sorted: 54 Kg Total catch: PECIES rachydeuterus auritus ecapterus thonchus ERREIDAE hloroscombrus chrysurus archarhinus limbatus omadagys jubelini aleoides decadactylus eleme dorsalis senaelay incinus alappa pelii ejia elegans	4.40 4.40 4.40 2967.36 (PE: PT Noi? 1) Purpose Area con Gearcom Validity 150 m Sp 53.96 CATCH// Weight r 123.45 38.36 19.50 7.13 4.05 3.98 3.00 1.35 0.38 0.35	44 132 44 7 POSI code: de : 1.code: 1.code: 2.code: de: 2.code: de: 1.514 46 1.514 1.514 1.514 4.56 4 8 1.55 4 1.51411.51411.51411.51411.51411.51411.51411.51411.51411.51411.51411.51411.51411.51411.51411.51411.51411.51411.5	0.11 0.11 0.12 10.00.01 10.0000000000000	стол:1198 N 1405 W 1704 202.35 С SAMP 2248
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actylopterus volitans enaeus notialis rachurus trecae otal DATE: 2/11/00 GEAR T start stop duration TIME :86:40:57 88:20:33 16 (mir LOG : 882.44 883.28 0.82 FDEFTH: 5 5 BDEPTH: 19 22 Towing dir: 2700 Wire out: Sorted: 54 Kg Total catch: PECIES rachydeuterus auritus ecapterus rhonchus ERREIDAE hloroscombrus chrysurus archarhinus limbatus omadays jubelini aleoides decadactylus elene dorsalis omadays incinus alappa pelii spia elegans lioteuthis africana enaeus kerathurus	4.40 4.40 4.40 2967.36 2967.36 2967.36 2967.36 2967.36 2967.36 2967.36 2967.36 2967.36 2967.36 2967.36 2967.36 2967.36 2967.36 297.35 3.96 207.13 3.36 3.96 3.96 3.96 3.96 3.96 3.96 3.9	44 132 44 7 PFF 7 POSI code: de : 1 code: de : 1 code: red: 30 CATC 10UR 1534 461 164 1856 48 15 11 8 4 11 41 4 4 4	0.11 0.12 0.12 0.12 100.01 100	стол:1198 N 1405 W 1704 202.35 С SAMP 2248
actylopterus volitans enacus notialis rachurus trecae otal	4.40 4.40 4.40 2967.36 2967.36 2967.36 2967.36 2967.36 2967.36 2967.36 297.36 297.36 297.37 2	44 132 44 7 PPF 7 POSI code: 1	0.11 0.12 0.12 0.12 100.01 00JECT STAT TION: Lat Long 1 4 kn*10 H/HOUR: * OF TOT. 61.01 18.96 9.64 3.52 2.000 1.97 1.48 0.67 0.41 0.49 0.41 0.49 0.41 0.41 0.42	стол; 1198 N 1405 W 1704 202. 35 С SAMP 2248
actylopterus volitans enacus notialis rachurus trecae otal DATE: 2/11/00 GEAR TS start stop duration TIME :86:40:57 88:20:133 16 (mir LOG : 882.44 883.28 0.82 FDEFTH: 5 5 BDEPTH: 19 22 Towing dir: 2700 Wire out: Sorted: 54 Kg Total catch: PECIES rachydeuterus auritus scapterus rhonchus GEREIDAE Holroscombrus chryssuus archarhinus limbatus omadasys jubelini sleeides desalis omadasys incisus slapap elii spia elegans lioteuthis africana emaeus kerathurus pia officinalis hierredda	4.40 4.40 4.40 2967.36 2967.36 2967.36 2967.36 2967.36 2967.36 2967.36 297.36 297.36 297.36 297.36 201.36 3.96 3.98 3.98 3.98 3.98 3.98 3.98 3.98 3.98	44 132 44 7 PFF 7 POSI code: de : 1 code: feed: 30 CATC 10UR 1534 461 100R 1534 461 155 15 1 15 1 15 4 4 4 1 1 1 4 4 4 4 4	0.11 0.12 0.12 0.12 0.12 0.12 0.12 0.12	стон:1198 N 1405 W 1704 202.35 С БАМР 2248
hectylopterus volitans tenaeus notialis tachurus trecae otal DATE: 2/11/00 GEAR T start stop duration TIME :86:40:57 88:20:33 16 (min LOG : 882.44 883.28 0.62 PDEPTH: 5 5 BDEPTH: 19 22 Towing dir: 270e Wire out. Sorted: 54 Kg Total catch: PECIES tachgeuterus auritus scapterus rhonchus EMENDAE PACEES Ideoides decadactylus stendarys jubelini leoides decadactylus stendarys incisus lappa pelii spia elegans lioteuthis africana maeus kerathurus spia officinalis hierredda otal DATE: 2/11/00 GEAR TY	4.40 4.40 4.40 2967.36 (PE: PT No:) Purpose Area con GearCon Validity : 150 m Spe 53.96 CATCH/I weight 7 123.45 38.36 19.50 7.13 4.05 3.98 3.98 3.90 1.35 0.08 0.15 0.08 0.04 202.38	44 132 44 7 PPSI code: 1 code: 1 code:	0.11 0.11 0.12 10.0000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000000	стол: 1198 N 1405 W 1704 202, 35 С SAMP 2248 ION: 1199 N 1416
hactylopterus volitans benaeus notialis Trachurus trecae total DATE: 2/11/00 GEAR T start stop duration TIME :06:40:57 60:20:33 16 (min LOG : 802.44 803.20 0.02 FDEFTH: 5 5 BDEDTH: 19 22 Toving dir: 2700 Wire out. Sorted: 54 Kg Total catch: PECIES Tachydeuterus auritus ecapterua rhonchus EREIDAE Horoscombrus chrysurus archarhinus limbatus omadays jubelini aleoides decadactylus elene dormalis omadays incisus aleoides decadactylus elene dormalis enaeus kerathurus epia elegans lioteuthis africana enaeus kerathurus epia officinalis hierredda otal DATE: 2/11/00 GEAR TY matart stop duration TIME :07:35:10 00:26:01 31 (min LOG : 907.32 909.63 1.99 FDEPTH: 34 32 Towing dir: 900 Mire out.	4.40 4.40 4.40 2967.36 (PE: PT No: 1) Purpose Area con GearCon Validity i 150 m Spe 53.96 CATCH/I weight r 123.45 38.36 19.50 7.13 4.05 3.98 3.98 3.98 3.90 1.35 0.15 0.08 0.38 0.15 0.08 0.04 202.38 PE: PT No: 3) Purpose Area con Validity 1.00 m Spe	44 132 44 7 PPF 7 POSI code: 16 : 1 code: 16 : 16 : 16 : 16 : 16 : 16 : 16 : 16	0.11 0.12 0.12 0.12 100.01 100.01 100.01 100.01 100.01 100.01 100.01 100.01 100.01 100.02 100.02 100.02 100.02 100.02	 ION:1198 № 1405 № 1704 202.35 С SAMP 2248 ION:1199 № 1416 ₩ 1712
hactylopterus volitans tenaeus notialis Tachurus trecae otal DATE: 2/11/00 GEAR T start stop duration TIME :86:40:57 88:20:131 16 (min LOG : 882.44 883.28 0.82 FDEPTH: 5 5 DDEPTH: 19 22 Towing dir: 2708 Wire out: Sorted: 54 Kg Total catch: PECIES rachydeuterus auritus ccapterus thonchus ERREIDAE hloroscombrus chrysurus archarhinus 11mbatus omadays jubelini aleoides decadactylus elene dorsalis smadays incinus hlappa pelii ejia elegans lloteuthis africana spaeus kerathurus epia officinalis hierredda otal DATE: 2/11/00 GEAR TY start stop duration TIME :07:15:10 08:26:01 33 (min LOG : 907.32 909.63 1.99 FDEPTH: 20 20 DEPTH: 34 22 Towing dir: 908 Wire out: Sorted: 5 Kg Total catch;	4.40 4.40 4.40 2967.36 (PE: PT Noi?) Purpose Area coo GearCond Validity 53.96 CATCH// veight r 123.45 38.36 19.50 7.13 4.05 3.98 3.00 1.35 0.38 0.38 0.38 0.38 0.38 0.38 0.45 3.98 3.00 1.35 0.08 0.04 202.38 PE: PT Noi3) Purpose Area cod GearCond Validity 202.38	44 132 44 7 POSI code: 1.code: 1.code: 2.code: 46 1.code: 1.code: 1.code: 43 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.	0.11 0.11 0.11 10.0.01 10.0000 100.0000 100.00000 100.00000 100.00000 100.000000 100.00000000	 CION: 1198 N 1405 W 1704 202.35 C SAMP 2248 ION: 1199 N 1416 W 1712 B.29
<pre>mattylopterus volitans enaeus notialis rachurus trecae otal DATE: 2/11/00 GEAR TY</pre>	4.40 4.40 4.40 2967.36 (PE: PT No:: 1) Purpose Area cod GearCom Validity : 150 m Spe : 53.96 CATCH/I weight i 123.45 38.36 19.50 7.13 4.05 3.98 3.00 1.35 0.83 0.38 0.15 0.08 0.04 202.38 (PE: PT No:3) Purpose Area cod GearCom Validity 202.38	44 132 44 9 9 9 9 9 132 44 132 44 132 44 14 15 15 16 15 16 15 16 16 17 16 17 10 15 16 15 16 16 16 16 16 16 16 16 16 16	0.11 0.11 0.11 0.12 100.01 100.01 100.01 100.01 100.01 100.01 100.02 100.02 100.02 100.02 100.02 100.02 100.02 100.02 100.02 100.02 100.02 100.02 100.02	СОN: 1198 N 1405 W 1704 202. 35 С БАМР 2248 ION: 1199 N 1416 W 1712 8.29
actylopterus volitans enacus notialis rachurus trecae otal DATE: 2/11/00 GEAR T start stop duration TIME :86:40:57 88:20:131 16 (min LOG : 882.44 883.28 0.82 FDEPTH: 5 22 Towing dir: 270s Wire out: Sorted: 54 Kg Total catch: DEPTH: 54 Kg Total catch: Sorted: 54 Kg Total catch: PECIES rachydeuterus auritus ecapterus thonchus ERREIDAE hicroscombrus chrynurus archarhinus limbatus Somadasys jubelini sleeides decadactylus sleene dorsalis smadasys inclaus hiappa pelli spia elegans liboteuthis africana spia officinalis hierredda otal DATE: 2/11/00 GEAR TY start stop duration TIME :07:35:10 08:26:01 33 (min LOG : 907.32 909.63 1.99 FDEPTH: 20 20 DDEPTH: 34 32 Towing dir: 90s Wire out: Sorted: 5 Kg Total catch:	4.40 4.40 4.40 2967.36 (PE: PT Noi ³)) Purpose Area con Gearcond Validity 53.96 CATCH/J Voldit n 202.38 PE: PT Noi ³) Purpose Area cod 0.08 0.08 0.08 0.04 202.38 PE: PT Noi ³) Purpose Area cod Gearcond Validity 120 m Spe 4.56 CATCH/JR	44 132 44 7 POSI code: 1.code: 1.code: 1.code: 1.code: 1.code: 1.code: 46 10 10 10 46 11 10 4 4 11 11 41 41 41 41 41 41	0.11 0.11 0.11 0.12 100.01 soject stat TION.Lat Long 1 4 kn*10 H/HOUR: 6 OF TOT. 180,06 197,64 3.552 2.00 1.97 1.48 0.67 0.41 0.07 0.04 0.02 100.02 100.02 DJECT STAT FION.Lat Long 1 4 cn*10 1/HOUR:	СТОМ: 1198 N 1405 W 1704 202. 35 С ВАМР 2248 ION: 1199 N 1416 W 1712 8.29 С ВАМР
actylopterus volitans enacus notialis rachurus trecae otal	4.40 4.40 4.40 2967.36 (PE: PT Noi?) Purpose Area con GearCom Validity 53.96 CATCH//M weight r 123.45 38.36 19.50 7.13 4.05 3.98 3.00 1.35 0.38 0.15 0.08 0.04 202.38 PE: PT Noi3) Purpose Area con GearCom Validity 120 m Spe 4.56 CATCH//M	44 132 44 98 7 POSI code: 1.code: 1.code: 2.code: 46 1534 46 184 56 4 184 56 4 184 56 4 184 56 4 11 184 56 4 11 184 56 4 11 184 56 4 11 184 56 4 19 184 56 4 19 19 19 19 19 19 19 19 19 19	0.11 0.11 0.11 10.0.01 10.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.00000 100.0000 100.0000 100.00000 100.00000000	 CION: 1198 N 1405 W 1704 202.35 C SAMP 2248 ION: 1199 N 1416 W 1712 B.29 C SAMP 2249
actylopterus volitans enacus notialis rachurus trecae otal DATE: 2/11/00 GEAR T start stop duration TIME :86:40:57 88:20:33 16 (min LOG : 882.44 883.28 0.82 FDEPTH: 5 5 BDEPTH: 19 22 Towing dir: 270e Wire out: Sorted: 54 Kg Total catch: DATE: 2/11/00 GEAR SCREIDAE DATE: 2/11/00 GEAR T start stop duration TIME : 07:15:10 08:26:01 33 (min LOG : 907.32 909.63 1.99 FDEPTH: 34 32 Towing dir: 90e Wire out: Sorted: 5 Kg Total catch: Sorted: 5 Kg Total catch: DATE: 2/11/00 GEAR T start stop duration TIME :07:15:10 08:26:01 33 (min LOG : 907.32 909.63 1.99 FDEPTH: 34 32 Towing dir: 90e Wire out: Sorted: 5 Kg Total catch: ECIES rdinella maderensis RCA1	4.40 4.40 4.40 2967.36 (PE: PT No:) Purpose Area con GearCom Validity : 150 m Spe : 53.96 CATCH/I weight 7 123.45 38.36 19.50 7.13 4.05 3.98 3.98 3.98 3.98 3.98 0.08 0.08 0.04 202.38 PE: PT No: 202.38 PE: PT No: 202.38 PE: CATCH/I Validity 120 m Spe 4.56 CATCH/I Validity 120 m Spe 4.56 CATCH/I Validity 120 m Spe 4.56 CATCH/I	44 132 44 132 44 132 44 132 44 132 132 132 132 144 164 153 461 153 461 153 461 164 464 164 1	0.11 0.11 0.11 0.12 100.01 100.01 100.01 100.01 100.01 100.01 100.02 100.02 100.02 100.02 100.02 100.02 100.02 100.02 100.02 100.02 100.02	CION: 1198 N 1405 W 1704 202, 35 C SAMP 2248 C SAMP N 1416 W 1712 8, 29 C SAMP 2249
meetylopterus volitans enacus notialis rachurus trecae otal DATE: 2/11/00 GEAR T Start stop duration TIME :06:40:57 80:20:33 16 (min LoG : 082.44 083.28 0.02 FDEFTH: 19 22 Towing dir: 2700 Wire out. Sorted: 54 Kg Total catch: DECEES rachydeuterus auritus ecapterus thonchus EREIDAE Nachadays jubelini locides decadactylus eleme dorsalis madasys inciaus tal DATE: 2/11/00 GEAR TY start stop duration TIME :07:35:10 00:26:01 3: (min LoG : 907.32 909.63 1.99 FDEFTH: 34 32 Towing dir: 90s Wire out: Sorted: 5 Kg Total catch: Sorted: 5 Kg Total catch:	4.40 4.40 4.40 2967.36 (PE: PT No:: 1) Purpose Area con GearCon Validity : 150 m Spe : 53.96 CATCH//I weight r 123.45 38.36 19.50 7.13 4.05 3.98 3.00 1.35 0.03 0.35 0.03 0.35 0.08 0.04 202.38 PE: PT No:3) Purpose Area con GearCond Validity 120 m Spe 4.56 CATCH//I Validity 120 m Spe 4.56	44 132 44 132 44 132 44 132 132 132 132 132 132 144 153 461 153 461 153 461 153 461 153 461 118 8 4 4 11 4 4 4 4 11 4 4 4 4 4 4 4 4 4 4 4 4 4	0.11 0.12 0.12 0.12 100.01 0.12 100.01 0.12 100.01 100.01 100.01 100.01 100.01 100.02 100.02 100.02 100.02 100.02 100.02 100.02 100.02 100.02 100.02 100.02 100.02 100.02 100.02	 FION: 1198 N 1405 W 1704 202. 35 C SAMP 2248 ION: 1199 N 1416 W 1712 8. 29 C SAMP 2249

DATE: 2/11/00	GEAR TYPE	. BT No.	-2 DOG	THITCHLAT AL	
start stop	duration	SI DI NO	ra POS	Long	W 17
LOG : 931.84 933.28	1.44 (min)	Area co	ode:	4	
FDEPTH: 126 123		GearCo	nd.code:		
Towing dir: 180ø	Wire out: 4	100 m S	peed: 30	kn*10	
Sorted: 37 Kg To	tal catch:	148.3	CAT	CH/HOUR:	317.8
SPECIES		CATCH,	HOUR	% OF TOT.	C SA
Boops boops		239.14	numbers 3497	75.2	4
Trachurus trecae		55.89	1080	17.5	8
Scomber japonicus		18.34	309	5.7	7
Decapterus rhonchus		1.71	17	0.5	4
Total		317.82		99.9	9
DATE: 2/11/00	GEAR TYPE	. BT NO.	2 POS	ROJECT STA	TION: 120
start stop	duration			Long	W 170
LOG 1 984.76 986.78	2.00 (min)	Area co	de	4	
FDEPTH: 21 19	an 6.0000	GearCon	d.code:		
Towing dir: 1805	Wire out - 1	Validit	y code:	kn#10	
Corted, 60 Kg mai	hal askal			×11-10	
sortedi 69 kg Tol	tal catch:	6369.22	CAT	CH/HOUR :	9798.80
SPECIES		CATCH/	HOUR	§ OF TOT.	C SAM
ðrachydeuterus auritus	w 7	221.88	132669	73.7	D
Diplodus vulgaris Galegides decadastulus	1	516.22	27300	15.4	7
Sphyraena guachancho		237.62	2829	2.4	2
Lithognathus mormyrus		149.92	566	1.6	3
Pomadasys jubelini Pagrus caeruleostistus		147.09	283	1.50	0
Pomadasys incisus		87.68	283	0,8	2
CARCAO1		67.88	566	0.69	
Pseudupeneus prayensis Pagellus bellottii		55.15	1272	0.50	5
ERREIDAE		14.14	142	0.49	í
becapterus rhonchus		7.06	142	0,07	,
DATE: 3/11/00 ∎tart stop d TIME :01:06:29 01:35:21 LOG :1064.33 1066.17	GEAR TYPE; GEAR TYPE; Juration 29 (min) 1.83	798.81 PT No:4 Purpose Area coo	PR POSI code: le :	99,98 OJECT STAT TION:Lat Long 1 4	TION:120 N 144 W 172
DATE: 3/11/00 start stop d TIME :01:06:29 01:35:21 LOG :10:06:33 10:66:17 FDEPTM: 0 0 DDEPTM: 101 124 Towing dir: 30:06	GEAR TYPE; uration 29 (min) 1.83	PT Nor Purpose Area coo GearCon Validity	PR POSI code: de : 1.code: 7 code: 20	99.90 OJECT STAT TION: Lat Long 1 4	10N:120 N 144 W 172
Total DATE: 3/11/00 start stop d TIME :01:06:29 01:35:21 LOG :1064.33 1066.17 FDEPTH: 0 0 DDEPTH: 101 124 Towing dir: 3208 Sorted: 40 Kg Tot	GEAR TYPE: uration 29 (min) 1.83 Wire out: 15 al catch:	PT Nor- Purpose Area coo GearCone Validity 50 m Spe 141.47	PR POSI code: de : 1.code: 7 code: 9 code: 9 code: 9 code:	99.96 OJECT STAT TION:Lat Long 1 4 kn*10	TION: 120 N 144 W 172
Total DATE: 3/11/00 start stop d TIME :01:06:29 01:35:21 LOG :1064.33 1066.17 FDEPTH: 0 0 DDEPTH: 101 124 Towing dir: 3206 Sorted: 40 Kg Tot	GEAR TYPE; Uration 29 (min) 1.83 Wire out: 15 al catch;	798.81 PT Noir Purpose Area con GearCon Validity 50 m Spe 141.47	PR POSI code: l.code: / code: / code: red: 30 CATC	99.90 OJECT STAT TION:Lat Long 1 4 kn*10 H/Hour:	TION:120 N 144 W 172 292.70
Total DATE: 3/11/00 start stop d TIME :01:06:29 01:35:21 LOG :1064.33 1066.17 FDEPTH: 0 0 DDEPTH: 101 124 Towing dir: 320s Sorted: 40 Kg Tot PPECIES	GEAR TYPE; Wration 29 (min) 1.83 Wire out: 15 al catch: we	PT No:- Purpose Area con GearCon Validity 00 m Spe 141.47 CATCH/f	PR POSI code: 1. code: 7 code: 7 code: 9 code: 9 code: 9 code: 1.	99.94 TION:Lat Long 1 4 kn*10 H/HOUR: % OF TOT.	210N:120 N 144 W 172 292.70 C SAMI
Total DATE: 3/11/00 start stop d TIME :01:06:29 01:35:21 LGG :1064.33 1066:17 FDEPTH: 0 0 BDEPTH: 101 124 Towing dir: 3200 Sorted: 40 Kg Tot Species uxis thazard	GEAR TYPE: uration 29 (min) 1.03 Wire out: 15 al catch: ve 2	PUTPOSE Area cod GearCond Validity 0 m Spe 141.47 CATCH/f ight r 52.00	PR POSI code: l.code: / code: / code: / code: sed: 30 CATC IOUR 1260	99.94 OJECT STAT TION:Lat Long 1 4 kn*10 N/HOUR: % OF TOT. 86.09	210N:120 N 144 W 172 292.70 C SAMI
rotal DATE: 3/11/00 start stop d TIME :01:06:29 01:35:21 LOG :1064.33 1066.17 FDEPTN: 0 0 DDEPTN: 101 124 Towing dir: 3200 Sorted: 40 Kg Tot PECIES uxis thazard rachurus trecae ynagropa microlepis	GEAR TYPE Wration 29 (Min) 1.83 Wire out: 15 al catch: we 2	PT No:- Purpose Area co GearConn Validity 0 m Spe 141.47 CATCH/F right r 152.00 17.38 9.43	PR POSI code: le : / code: / code:	99.90 00JECT STAT TION:Lat Long 1 4 kn*10 N/HOUR: * OF TOT. 06.09 5.94	TION: 120 N 144 W 172 292.70 C SAM
otal DATE: 3/11/00 start stop d TIME :01:06:29 01:35:21 LOG :10:64.33 10:66.17 PDEPTH: 0 0 DDEPTH: 101 124 Towing dir: 3200 Sorted: 40 Kg Tot PECIES uxis thazard rachurus trecae ynagrops microlepis riomma bondi	GEAR TYPE: Uration 29 (min) 1.83 Wire out: 15 al catch: ve 2	PT No:- Purpose Area co GearCon Validity 0 m Spe 141.47 CATCH/H right r 52.00 17.38 9.41 3.91	PR POSI code: le : l.code: y code: y code: y code: sed: 30 CATC IOUR 1260 600 1130 261	99.90 0JECT STAT TION:Lat Long 4 kn*10 M/HOUR: 8 OF TOT. 86.09 5.94 3.21 1.34	TION: 120 N 144 W 172 292.70 C SAM
otal DATE: 3/11/00 atart stop d TIME :01:06:29 01:35:21 LOG :1064.33 1066.77 PDEPTH: 0 0 DDEPTH: 101 124 Towing dir: 3200 Sorted: 40 Kg Tot PECIES uxis theoret rechurus trecae ynagrops microlepis riomem bondi ardinella aurita	GEAR TYPE; luration 29 (min) 1.03 Wire out; 15 al catch; we 2	PT No:- Purpose Area con GearCon Validity 0 m Spe 141.47 CATCH// ight r 152.00 17.38 9.41 3.91 3.62	PR code: de : 1.code: y code: sed: 30 CATC 10UR 1260 600 1130 261 238	99.91 OJECT STAT TION:Lat Long 1 4 kn*10 H/HOUR: 8 OF TOT. 86.09 5.94 3.31 1.34 1.24	TON:120 N 144 W 172 292.70 C SAMI 2250
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DATE: 3/11/00 start stop d TIME :01:06:29 01:35:21 LOG :1064.33 1066.17 PDEPTH: 0 0 124 Towing dir: 320e Sorted: 40 Kg Tot PECIES uxis thazard rachurus trecae ynagrops microlepis riomma bondi ardinella aurita ngraulis encrasicolus YCTOPHIDAE agocephalus Lagocephalus epia elegans richirus lepturus odarodes sagittatus agocephalus Laevigatus elene dorsalis otal DATE: 3/11/00 start stop de TIME :05:47:31 06:13:01 LOG :1095.55 1097.54 0 PEDETH: 0 0 BDEPTH: 136 124 Towing dir: 150e k Sorted: 75 Kg Tota	GEAR TYPE; uration 29 (min) 1.03 Wire out; 15 al catch; ve 2 GEAR TYPE; uration 32 (min) 1.97 C tire out; 15: 1 catch; ve 2 2 2 2 2 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3	PUT No:4 PUTPOSE Area co GearCont Validit; 50 m Spc 141.47 CATCH// Sight r 52.00 17.38 9.41 3.91 3.62 2.17 1.45 0.72 0.06 PT No:4 No:4 14 15 0.03 19.16 10.16 19.16 10.16 10.17 10.14	PR POSI Code: le : le : code: code: code: l260 600 1300 261 1300 261 1300 261 130 261 130 261 144 14 14 14 PR(POSIT code: e : 4 code: code: 200 200 200 200 200 200 200 20	99.9(99.9(oJECT STAT TION:Lat Long 1 4 kn*10 H/HOUR: * OF TOT. 8 OF TOT. 8 OF TOT. 1.34 1.24 0.25 0.25 0.25 0.20 0.03 0.02 100.01 Long 1	Чол: 120 N 144 W 172 292.70 С SAM 2250 1001:1203 N 1454 W 1725 18888.84 : SAMP 2251
DATE: J/11/00 start stop d THE :01:06:29 01:35:21 LOG :1064.33 1066:17 PDEPTH: 0 0 DDEPTH: 101 124 Towing dir: 320e Sorted: 40 Kg Tot PECIES uxis thazard rachurus trecae ynagrops microlepis rioma bondi ardinella aurita ngraulis encrasicolus YCTOPHIDAE agocephalus lagocephalus epia elegans richiurus lepturus odarodes asgittatus agocephalus laevigatus elene dorsalis otal DATE: 3/11/00 start stop du THE :05:47:31 06:19:01 LOG :1095.55 1097.54 1 PDEPTH: 0 0 DDEPTH: 136 124 Towing dir: 150s K Sorted: 75 Kg Tota	GEAR TYPE, uration 29 (min) 1.03 Wire out; 15 al catch: ve 2 GEAR TYPE; tration 32 (min) 1.97 % fire out; 15: 1 catch: ve 200 % 20	798.81 Purpose Area co GearCond Validity io m Spe 141.47 CATCH// CATCH// 152.00 17.38 9.41 3.62 2.17 1.45 0.72 0.72 0.72 0.72 0.73 0.72 0.76 0.58 0.58 0.08 0.06 92.68 PT No:4 Purpose Area cod GearCond Validity 3 m Spe 2074.05 CATCH//H 161 17 161 17 162 17 162 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 16 17 16 17 16 17 16 17 16 17 16 16 17 16 16 17 16 16 17 16 17 16 16 17 16 16 16 17 16 16 16 16 16 16 16 16 16 16	PR POSI code: le : l.code: sed: 30 CATC NUUR 1260 600 1300 261 238 011 223 6 14 14 14 14 14 POSI code: co	99.9(99.9(OJECT STAT TION:Lat Long 1 4 kn*10 W/HOUR: 0 OF TOT. 0.56 0.25 0.22 0.03 0.02 100.01 DJECT STAT CION:Lat Long 1 0.25 0.22 0.03 0.02 100.01 DJECT STAT CION:Lat Long 1 0.05 0.05 0.05 0.25 0.25 0.22 0.03 0.02 0.05 0.25 0.25 0.22 0.03 0.02 0.05 0.25 0.22 0.03 0.02 0.05 0.25 0.25 0.22 0.03 0.02 0.05 0.25 0.25 0.22 0.03 0.02 0.05 0.25 0.25 0.22 0.03 0.02 0.05 0.25 0.05 0.25 0.25 0.25 0.25 0.25 0.05 0.25 0.05 0.25 0.25 0.25 0.25 0.25 0.05 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.05 0.25 0.25 0.25 0.25 0.25 0.05 0.25 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.	 TION: 120 N 144 W 172 292.70 C SAMI 2250 ION: 1203 N 1454 W 1725 IOBBB.84 SAMP 2251
Total DATE: 3/11/00 start stop d THE :01:06:29 01:35:21 LOG :1064.33 1066.17 PDEPTH: 0 0 0 DDEPTH: 101 124 Towing dir: 3200 Sorted: 40 Kg Tot PECIES uxis thazard rachurus trecae ynagrops microlepis richiurus legturus odarodes agittatus agocephalus lagocephalus ejea elegans richiurus legturus odarodes agittatus agocephalus laevigatus elene dorsalis otal DATE: 3/11/00 matart stop du THME: 05:47:31 06:19:01 LOG :1095.55 1097.54 1 FDEPTH: 136 124 Towing dir: 1506 k Sorted: 75 Kg Tota PECIES Tachurus trecae kis thazard rachydurus trecae kis	GEAR TYPE; Uration 29 (min) 1.03 Wire out; 15 al catch: ve 2 GEAR TYPE; Iration 32 (min) 1.97 Chire out; 15 1 catch: ve ve 280 Ve 280	798.81 Purpose Area co GearCom Validit; 50 m Spe 141.47 CATCH// 152.00 17.38 9.41 3.62 2.17 1.45 0.72 0.72 0.72 0.58 0.58 0.06 92.68 PT No:4 Purpose Area cod GearCom PT No:4 Purpose Area cod GearCom PT No:4 Purpose Area cod GearCom 1.58 0.08 0.06 0.05 0.55 0 0 0 0 0 0 0 0 0 0 0 0 0	PR POSI Code: 1e : 1.code: 2.code: 2.code: 1260 130 241 243 6 14 14 14 14 14 14 14 14 14 14	99.94 OJECT STAT TION: Lat Long 1 4 kn*10 H/HOUR: * OF TOT. 66.09 5.94 3.31 1.24 0.74 0.55 0.25 0.20 0.	ТОN:120 N 144 W 172 292.70 С БАМ 2250 10N:1203 N 1454 W 1725 10888.84 С БАМР 2251
rotal DATE: J/11/00 start stop d TIME :01:06:29 01:35:21 LOG :1064.33 1066.17 PDEPTH: 0 10 DDEPTH: 101 124 Towing dir: 320s Sorted: 40 Kg Tot PECIES wais thazard trachurus trecae ynagropa microlepis richiurus lepturus odarodes angittatus agocephalus lagocephalus ejia elegans richiurus lepturus odarodes agittatus agocephalus laevigatus elene dorsalis otal DATE: 3/11/00 start stop du TIME: 105:47:11 50; 40 DDEPTH: 136 124 Towing dir: 150s K Sorted: 75 Kg Tota PECIES rachurus trecae ixis thazard rachydurus racae stat stazard rachurus trecae ixis thazard rachydurus racae rachydurus racae stat arg rachurus trecae ixis thazard rachydurus racae rachydurus racae richiurus lepturus somber japonicus richiurus lepturus	GEAR TYPE: uration 29 (min) 1.03 Wire out: 15 al catch: ve 2 GEAR TYPE: rration 32 (min) 1.97 (ire out: 15: 11 catch: ve 200 200 200 200 200 200 200 20	PUT No:+ PUTPOSE Area co GearCont Validit; 0 m Spe 141.47 CATCH/1 52.00 17.38 9.41 3.91 3.62 2.17 1.45 0.72 0.58 0.08 0.08 0.06 92.68 PT No:+ PT No:+ PUTPOSE Area cod GearCont Validit; 0.72 0.58 0.09 0.03 0.05 0.03 0.03 0.03 0.05 0.03 0.05 0.05 0.05 0.05 0.05 0.05 0.03 0.03 0.03 0.03 0.03 0.05 0.03 0.05 0.03 0.05 0.03 0.05 0.03 0.05 0.03 0.05 0.03 0.03 0.03 0.05 0.03 0.05 0.03 0.05 0.03 0.05 0.03 0.05 0.03 0.05 0.03 0.05 0.03 0.05 0.03 0.05 0.03 0.05 0.03 0.05 0.03 0.05	PR POSI Code: 1e : 1.code: 2.code: 2.code: 2.code: 1260 600 1130 261 238 811 238 811 243 6 14 14 14 14 14 14 14 0 POSI code: 2.c	99.94 0.JECT STAT TION:Lat Long 1 4 kn*10 H/HOUR: * OF TOT. 86.09 5.04 3.21 1.34 1.24 0.74 0.55 0.25 0.20 0.22 0.20 0.20 0.22 0.20 0.22 0.20 0.22 0.20 0.22 0.20 0.22 0.22 0.20 0.22 0	TON: 120 N 144 W 172 292.70 C SAM 2250 100N: 1203 N 1455 2250 100N: 1203 N 1455 2250 100N: 1203 N 1455 2250
Total DATE: J/11/00 start stop d TIME :01:06:29 01:35:21 LOG :1064.33 1066.17 FDEPTH: 0 10 DEPTH: 101 124 Towing dir: 320e Sorted: 40 Kg Tot Sorted: 40 Kg Tot PECIES waxis thazard trachurus trecae ynagropa microlepis aridinella aurita mgraulis eneranicolus YCTOPHIDAE agocephalus lagocephalus ejia elegans richiurus lepturus odarodes angittatus agocephalus laevigatus elene dorsalis otal DATE: 3/11/00 start stop de TIME: 105:47:31 06:19:01 LOG :1095.55 1097.54 1 FDEFTH: 0 0 DDEFTH: 0 0 DDEFTH: 136 124 Towing dir: 150e K Sorted: 75 Kg Tota PECIES rachurus trecae bis thazard cachydeuterus auritus ichiurus lepturus Somber japonicus somber japonicus somber japonicus	GEAR TYPE: Uration 29 (min) 1.83 Wire out: 15 al catch: ve 2 GEAR TYPE: Uration 32 (min) 1.97 C Fire out: 15: 1 catch: ve 2 Signa (min) 1.97 C Signa (min)	798.81 Purpose Area co GearCont Validit; 50 m Spe 141.47 CATCH// CATCH// 152.00 17.38 9.41 3.91 3.62 2.17 1.45 0.72 0.58 0.72 0.78 0.78 0.78 0.78 0.78 0.78 0.78 0.72 0.78 0.72 0.78 0.72 0.75 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.74 0.55 0.74 0.50 1.03	PR POSI Code: le : code: code: code: l260 600 1130 261 238 811 238 811 238 811 238 6 14 14 14 14 14 6 14 14 14 14 0 PRC POSI code:	99.90 0.JECT STAT TION:Lat Long 1 4 kn*10 H/HOUR: 8 OF TOT. 8 OF TOT. 9 0.25 0.25 0.25 0.20 0.03 0.02 100.01 DJECT STAT VION:Lat Long 1 0 0F TOT. 2 72.16 15.41 8.06 3.42 0.74 0.55 0.20 0.20 0.03 0.20 0.03 0.20 0.20 0.03 0.20 0	Чол: 120 N 144 W 172 292.70 С БАМ 2250 1001: 1203 N 1454 W 1725 10808.04 : БАМР 2251

DATE: 3/11/00 GEAR	TYPE: BT No	2 POS	ITION:Lat	N 1510
start stop duration TIME :16:21:10 16:50:32 29 (1	n min) Purpos	e code:	Long	W 1700
LOG :1196.18 1197.58 1.35	Area c	ode :	4	
BDEPTH: 48 47	GearCo Validi	ty code:		
Towing dir: 210ø Wire o	ut: 220 m S	peed: 30	kn*10	
Sorted: 69 Kg Total cate	ch: 589.2	1 CATO	CH/HOUR :	1219.06
apparta				
SPECIES	CATCH	/HOUR numbers	& OF TOT.	C SAMI
Trachurus trecae	566.98	5506	46.5	1
Pagellus bellottii	228.79	1618	20.69	9
Pomadasys jubelini Boons boons	39.04	106	3.20)
Lithognathus mormyrus	37.63	528	3.05	9
Sphyraena guachancho	16.88	230	1.38	3
Pomadasys incisus	13.37	317	1.10)
Loligo vulgaris	11.61	1055	0.95	5
Alloteuthis africana	6.50	124	0,5:	3
Fistularia petimba	2.81	35	0.23	3
Decapterus rhonchus	1.76	35	0,14	l.
Total	1210.05			
10tul	1219.05		100.00)
DATE: 3/11/00 GEAR	TYPE: PT No:	PR :6 POSI	OJECT STAT	N 1515
start stop duration TIME :18:37:37 19:05:53 28 /m	i in) Burnose	a code i	Long	₩ 1655
LOG :1212.41 1214.16 1.71	Area co	ode :	4	
EDEPTH: 10 10 BDEPTH: 31 47	GearCor	nd.code:		
Towing dir: 290ø Wire ou	t: 150 m Sp	peed: 35	kn*10	
Sorted: 66 Kg Total catc	h: 3093.00	CATC	H/HOUR :	6627.86
SDECTES				
Dana alan dan dan dan dan dan dan dan dan dan d	weight	numbers	• OF TOT.	C SAMP
Brachydeuterus auritus Trachurus trecae	4723.07	34078	71.26	
Chloroscombrus chrysurus	139.50	8471 996	18.46	2253
Decapterus rhonchus Selene dorsalis	129.54	499	1.95	
Pomadasys incisus	111.60	300	1.83	
Sphyraena guachancho Lithognathus mormyrus	60.77	300	0.92	
Remora remora	24.90	101	0.45	
Sardinella maderensis Boops boops	23.91	199	0.36	
Stromateus fiatola	81.92	199	0.33	
	21.00	28	0.32	
Total DATE: 4/11/00 GEAR ' BLAIT SLOP duration THE 00.06.41 SLOP duration	6631.02 FYPE: PT No:	28 PRC 4 POSIT	0.32 100.04 DJECT STAT FION: Lat Long	ION:1206 N 1527 W 1653
DATE: 4/11/00 GEAR ' atart stop duration TIME :00:06:43 00:36:48 30 (m: LOG :1250.39 1259.95 1.54 FDEPTH: 10 10	TYPE: PT No: GearCon GearCon	28 PR(4 POSIT code: 1 de : 4 d.code:	0.32 100.04 DJECT STAT FION:Lat Long	ION:1206 N 1527 W 1653
DATE: 4/11/00 GEAR ' atart stop duration TIME :00:06:43 00:36:48 30 (m: LOG :1258.39 1259.95 1.54 FDEPTH: 10 10 BDEPTH: 55 69 Towing dir: 294e Wire out	21.00 6631.02 TYPE: PT No: in) Purpose Area co. GearCom Validit: t: 150 m Spa	28 PR(4 POSIT de : 4 d.code: y code: y code:	0.32 100.04 DJECT STAT TION: Lat Long L	ION:1206 N 1527 W 1653
Total DATE: 4/11/00 GEAR ' start stop duration TIME :00:06:43 00:36:48 30 (m: LGG :1258.39 1259.95 1.54 FDEPTH: 10 10 BDEPTH: 55 69 Towing dir: 2946 Wire out Sorted: 71 Kg Total catel	21.00 6631.02 FYPE: PT No: in) Purpose Area co- GearCom Validit; t: 150 m Sp n: 1070.70	PRC 4 POSIT code: 1 de : 4 d.code: y code: eed: 30 }	0.32 100.04 DJECT STAT FION:Lat Long Long Long Long Long Long Long	ION: 1206 N 1527 W 1653
Total DATE: 4/11/00 GEAR ' atart stop duration TIME :00:06:43 00:36:48 30 (m. LOG :1258.39 1259.95 1.54 FOEPTH: 10 10 BDEPTH: 55 69 Towing dir: 294ø Wire out Sorted: 71 Kg Total catel	21.00 6631.02 FYPE: PT No: Area con GearCon validit; 150 m Sector 150	28 PRC 4 POSIT de : 4 d.code: 1 d.code: y code: eed: 30 k CATCE	0.32 100.04 DJECT STAT FION:Lat Long	ION: 1206 N 1527 W 1653 2141.40
Total DATE: 4/11/00 GEAR ' atart stop duration TIME :00:106:43 00:16:48 30 (m. LOG :1258.39 1259.95 1.54 FDEPTH: 10 10 DDEPTH: 55 69 Towing dir: 2946 Wire out Sorted: 71 Kg Total catel SPECIES	21.00 6631.02 FYPE: PT No: Area co. GearCom Validit: 150 m Solution 1070.70 CATCH/H	28 PR(4 POSIT code: J de : 4 d.code: y code: a0 J cotc: y code: cotc: hour	0.32 100.04 DJECT STAT FION:Lat Long cn*10 I/HOUR: :	ION:1206 N 1527 W 1653 2141.40 C SAMP
Total DATE: 4/11/00 GEAR ' atart stop duration TIME :00:06:43 00:36:48 30 (m: LOG :1258.39 1259.95 1.54 PDEPTM: 10 10 DDEPTM: 55 69 Towing dir: 294e Wire out Sorted: 71 Kg Total catel SPECIES Chloroscombrus chrysurus	21.00 6631.02 TYPE: PT No: (in) Purpose Area co GearCom Validit; 1: 150 m Sp 1: 1070.70 CATCH/1 weight 1 1:582.50	28 PR(4 POSIT code: 1 de : 4 d.code: 1 de : 4 d.code: 9 code: eed: 30 } CATCH NOUR 1 NUMR 1	0.32 100.04 DJECT STAT FION:Lat Long L scn*10 I/Hour: : A OF TOT. C 73.90	ION:1206 N 1527 W 1653 2141.40 C SAMP
Total DATE: 4/11/00 GEAR ' atart stop duration TIME :00:06:43 00:36:48 30 (m: LOG :1258.39 1259.95 1.54 FDEPTH: 10 10 DDEPTH: 55 69 Towing dir: 294e Wire out Sorted: 71 Kg Total catel SPECIES Chloroscombrus chrysurus Felene doraalis	21.00 6631.02 TYPE: PT No: (in) Purpose Area co GearCom validit; 150 m Spi n: 1070.70 CATCH/1 weight - 1582.50 262.80	28 PR(4 POSIT code: 1 de : 4 d.code: 2 de: 4 d.code: sed: 30 } CATCI HOUR 1 NUMPERS 8040 1290	0.32 100.04 DJECT STAT FION:Lat Long L Gn*10 1/HOUR: : 0 OP TOT. (73.90 12.27	ION:1206 N 1527 W 1653 2141.40 С БАМР
Total DATE: 4/11/00 GEAR ' atart stop duration TIME :00:06:43 00:16:43 00 (m: LOG :1258.39 1259.95 1.54 FDEPTH: 10 10 BDEPTH: 55 69 Towing dir: 294e Wire out Sorted: 71 Kg Total catcl SPECIES Chloroscombrus chrysurus ielene dormalis trachydeuterus auritus Trachurus trecae	21.00 6631.02 FYPE: PT No: (in) Purpose Area co- GearCom- validit 150 m Spin: 1070.70 CATCII// weight 1 1582.50 262.80 91.20 63.00	28 PR(4 POSIT code: 1 de : 4 d.code: 2 y code: 30 } CATCI HOUR 8 numbers 8040 1290 720 480	0.32 100.04 DJECT STAT FIONILAT Long L Gn*10 1/HOUR: 2 73.90 12.27 4.26 2.04	ION:1206 N 1527 W 1653 2141.40 C SAMP
DATE: 4/11/00 GEAR (atart stop duration THE :00:06:43 00:16:48 30 (m LOG :1258.39 1259.95 1.54 POEPTN: 10 10 DDEPTN: 55 69 Towing dir: 294# Wire out Sorted: 71 Kg Total cate! Sorted: 71 Kg Total cate! PECIES Chloroscombrus chrysurus elelone dorsalis trachydeuterus auritus trachydeuterus auritus trachydeuterus auritus trachydeuterus auritus trachydeuterus auritus trachydeuterus auritus trachydeuterus auritus trachydeuterus auritus trachydeuterus auritus trachydeuterus auritus	21.00 6631.02 FYPE: PT No: (in) Purpose Area co- GearCom- validit: 1: 150 m Spi 1: 1070.70 CATCH// weight 1 1:582.50 262.80 91.20 61.00 52.80	28 PR(4 POSIT code: 1 de : 4 d.code: 2 y code: 20 CATCI HOUR 4 numbers 8040 1290 720 480 300 000 1290	0.32 100.04 DJECT STAT FION:Lat Long (scn*10 1/HOUR: 3 4 6 OF TOT. 6 73.90 12.27 4.26 2.94 2.47	ION:1206 N 1527 W 1653 R141.40 2 SAMP
DATE: 4/11/00 GEAR (start stop duration TIME :00:06:43:00:36:48:300 (m; LOG :1258:39:1259.95:1.54 PDEPTH: 10:10 DDEPTH: 55:69 Towing dir: 294# Wire out Sorted: 71 Kg Total catcl Sorted: 71 Kg Total catcl PPECIES hloroscombrus chrysurus eleme dormalis trachydeuterus auritus trachydeuterus auritus	21.00 6631.02 FYPE: PT No: in) Purpose Area co: GearCom Validit; t: 150 m Spi n: 1070.70 CATCH/J weight n 1582.50 262.80 91.20 63.00 63.00 52.80 27.00 14.40	28 PRC 4 POSI7 code: 1 de : 4 d. code: y code: y code: CATCH HOUR 1000 720 480 300 450 300 300	0.32 100.04 DJECT STAT FIONILAT Long Long Long L Sn*10 1/HOUR: : 4 OP TOT. C 73.90 12.27 4.26 2.94 2.94 2.94 2.94	ION:1206 N 1527 W 1653 2141.40 2 SAMP
Total DATE: 4/11/00 GEAR ' atart stop duration TIME :00:06:43 00:36:48 30 (m: LOG :1258.39 1259.95 1.54 FDEPTM: 10 10 DDEPTH: 55 69 Towing dir: 294e Wire out Sorted: 71 Kg Total catcl Sorted: 71 Kg Total catcl SPECIES Chloroscombrus chrysurus Helene dorsalis rachurus trecae ecapterus honchus tichiurus lepturus ampogramma glaycos tromateus fiatola tromateus fiatola	21.00 6631.02 FYPE: PT No: in) Purpose Area co. Gearcom Validit; t: 150 m Spi 1: 1070.70 CATCH/1 weight 1 1582.50 262.80 91.20 63.00 052.80 27.00 14.40 14.40 14.40	28 PR(4 POSI2 code: 1 de : 4 d.code: 2 y code: eed: 30 9 roumbers 8040 1290 720 480 300 450 30 30 30 30	0.32 100.04 DJECT STAT FIONILAT Long L sch + 10 1/HOUR: 3 OF TOT. C 73.90 12.27 4.26 2.94 2.94 2.97 1.26 0.67 0.67	ION:1206 N 1527 W 1653 2141.40 2 SAMP
Total DATE: 4/11/00 GEAR ' start stop duration THE :00:06:43 00:36:48 30 (m: LOG :1258.39 1259.95 1.54 FDEPTH: 10 10 DDEPTH: 55 69 Towing dir: 294e Wire out Sorted: 71 Kg Total catch SPECIES Chloroscombrus chrysurus Head translis trachurus trecae evecapterus ichnchus trichiurus lepturus Mampogramma glaycos tromatus flatola rachinotus ovatus phyraena guachancho	21.00 6631.02 TYPE: PT No: (in) Purpose Area co GearCom validit; 1: 150 m Sp 1: 1070.70 CATCH/1 weight - 1:582.50 61.00 52.80 52.80 52.80 14.40 10.80 9.00	28 PR(4 POSI1 code: 1 de : 4 d.code: 2 y code: 2 code: 30 0 CATCI HOUR 8 8040 1290 720 480 300 300 30 60	0.32 100.04 DJECT STAT FION:Lat Long L schedule Control Co	ION:1206 N 1527 W 1653 R141.40 C SAMP
DATE: 4/11/00 GEAR : start stop duration TIME :00:06:43 00:16:43 00 (m: LOG :1250.39 1259.95 1.54 PDEPTH: 10 10 DDEPTH: 55 69 Towing dir: 294e Wire out Sorted: 71 Kg Total catel Sorted: 71 Kg Total catel PECIES Chloroscombrus chrysurus Helene dorsalis rachydeuterus auritus rachydeuterus auritus rachydeuterus aleturus ampogramma glaycos tromateus fiatola rachinotus ovatus phyraena guachancho ngraulis eneramicolus	21.00 6631.02 TYPE: PT No: in) Purpose Area co- GearCom validit; 150 m Spi 1: 150 m Spi 1: 1070.70 CATCH/1 weight 1 1:52.50 2: 2.80 91.20 6: 3.00 5: 4.00 5: 4.00 5: 4.00 5: 4.00 5: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5	28 PR(4 POGIT code:] de : 4 d.code: 3 de.code: 3 code: 3 code: 3 code: 4 code: 3 code: 4 code: 4 code: 4 code: 4 code: 4 code: 5 code: 5	0.32 100.04 DJECT STAT FIONILAT Long L A OF TOT. C 73.90 12.27 4.26 2.94 2.47 1.26 0.67 0.50 0.42 0.42	ION:1206 N 1527 W 1653 2141.40 C SAMP
DATE: 4/11/00 GEAR start stop duration THE :00:06(43 00:15(48 00) LOG :1258.39 1259.95 1.54 PDEPFH: 10 10 DDEPTH: 55 69 Towing dir: 294e Wire out Sorted: 71 Kg Total catcl Sorted: 71 Kg Total catcl PECIES thloroscombrus chrysurus elene dorsalis rachydeuterus auritus rachurus trecae ecapterus rhonchus richiurus lepturus ampogramma glaycos tromateus fiatola racharus tistola racharus tistola racharus status phyraena guachancho ngraulis encrasicolus lloteuthis africana oligo vulgaris	21.00 6631.02 FYPE: PT No: in) Purpose Area co- GearCom- validit: 150 m Spin: 1070.70 CATCH// weight n 1582.50 91.20 63.00 52.80 91.20 63.00 52.80 91.20 63.00 52.80 91.20 63.00 52.80 91.20 63.00 52.80 91.20 63.00 52.80 91.20 63.00 52.80 91.20 63.00 52.80 91.20 63.00 52.80 14.40 10.80 9.00 1.80 1.20 1.80	28 PR(4 POSIT code: J de : 4 d. code: eed: 30 J CATCI NOUR 1 numbers 8040 1290 720 480 300 300 300 30 30 30 30 30 30	0.32 100.04 DJECT STAT FIONILAT Long 1 4 0 OF TOT. 0 73.90 12.27 4.26 2.94 2.47 1.26 0.67 0.57 0.57 0.42 0.42 0.08 0.08 0.08	ION:1206 N 1527 W 1653
DATE: 4/11/00 GEAR (atart stop duration THE :00:06(43 00:16:48 30 (m) LOG :1258.39 1259.95 1.54 PDEPTN: 10 10 DDEPTN: 55 69 Towing dir: 294ø Wire out Sorted: 71 Kg Total catel PECIES Chloroscombrus chrysurus elelene dorsalis trachydeuterus auritus trachydeuterus auritus trachydeuterus auritus trachydeuterus auritus trachurus lepturus ampogramma glaycos tromateus flatola tromateus flatola tromateus ovatus phyraena guachancho ngraulis encrasicolus lloteuthis africana oligo vulgaris epia elegans anduella auritz	21.00 6631.02 FYPE: PT No: (in) Purpose Area co- GearCom- validit: 150 m Spi 1582.50 262.80 91.20 91.20 61.00 52.80 14.40 14.40 14.40 14.40 14.40 14.80 1.80 9.00 9.00 0.60 0.	28 28 28 20 28 28 28 28 28 28 28 28 28 28 28 28 28	0.32 100.04 DJECT STAT FIONILAT Long (a) (a) (a) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c	ION:1206 N 1527 W 1653 2141.40 Z SAMP
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DATE: 4/11/00 GEAR: start stop duration THE: 00106:43 00 (mit) LOG: 11258: 39 1259.95 1.54 PDEPTH: 10 10 DDEPTH: 5 69 DOTE: 71 Kg Total catel Sorted: 71 Kg Total catel Species Toving dir: 294e Microscombrus chrysurus telene dorsalis trachurus auritus trachurus lepturus tarachinotus ovatus phyraena guachancho mgrama glaycos tircomateus fiatola trachinotus ovatus phyraena guachancho mgrafiae oligo vulgaris epia elegans ardinella aurita ardinella aurita ardinella aurita tart tod 1273.45 1275.18 DATE: 4/11/00 GEAR T start stop 00 (mit) otal 5 Towing dir: DATE: 4/11/00 GEAR T start stop 00 DEPETH:	21.00 6631.02 FYPE: PT No: in) Purpose Area co- GearCom validit: 150 m Sp- n: 1070.70 CATCH// weight n 1502.50 61.00 52.80 91.20 63.00 52.80 91.20 63.00 52.80 91.20 63.00 52.80 91.20 63.00 52.80 91.20 63.00 52.80 91.20 63.00 52.80 91.20 63.00 52.80 91.20 63.00 52.80 91.20 63.00 52.80 91.20 63.00 52.80 91.20 63.00 52.80 91.20 63.00 52.80 91.20 63.00 52.80 91.20 63.00 52.80 9.00 9	28 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	0.32 100.04 DJECT STAT FION:Lat Long (6 OF TOT. c 73.90 12.27 4.26 2.94 2.47 1.26 0.67 0.50 0.42 0.67 0.50 0.42 0.67 0.57	ION:1206 N 1527 W 1653 2141.40 С БАМР С БАМР ОN:1207 N 1534 W 1649 3888.84 БАМР
DATE: 4/11/00 GEAR f start stop duration ODIO: 61:43 00 (m: 10:00:61:43 00 (m: 10:00:16:48 10) DODE 1258.39 1259.95 1.54 FDEPTH: 10 10 DDEPTH: 5 69 Towing dir: 294e Wire out Sorted: 71 Kg Total catel Species Sorted: 71 Kg Shloroscombrus chrysurus Felene dorsalis frachydeuterus trachydeuterus stop Ampogramma glaycos tromateus fitola trachinotus ovatus phyraena phyraena guachancho mgrauls mgrauls enerasicolus lotoeuthis afticana oligo vulgaris glant epia elegans ardinella maderensis otal 0 0 DATE: 4/11/00 GEAR T start stop duration TIME: 02:17:03 02:47:102 30 (mi 0 LoG :1273.45 1275.18 1.72 PDEPTH: PDEPTH: 4 55	21.00 6631.02 FYPE: PT No: (in) Purpose Area co- GearCom- validit: 150 m Spin: 150 m Spin: 150 m Spin: (CATCII//I veight n 1582.50 91.20 0.32,80 91.20 0.32,80 91.20 0.32,80 91.20 0.32,80 14.40 14.50 0.62 0.02 0.02 2136.64 YPE: PT No:4 No:4 No:4 No:5 0.00 15.7.76 180,00 257.76 257.76 257.76 257.76 257.76 250.77 250.	28 PRC CODE:	0.32 100.04 DJECT STAT FION:Lat Long (a) (a) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c	ION:1206 N 1527 W 1653 2141.40 C SAMP ON:1207 N 1534 W 1649 388.04 SAMP
DATE: 4/11/00 GEAR f start stop duration THE :00:06:43 00:06:43 00 DOG : 1258.39 1259.95 1.54 PDEPTH: 10 10 DDEPTH: 55 69 Towing dir: 294e Wire out Sorted: 71 Kg Total catel Specces Towing dir: 294e Horoscombrus chrysurus start Belene dorsalis frachydeuterus auritus Trachydeuterus auritus frachydeuterus auritus Trachydeuterus auritus frachydeuterus auritus Trachydeuterus guachancho ngrauls ngrauls enerasicolus loteuthis africana loteuthis africana otal dit DATE: 4/11/00 GEAR T start stop duration total Toxing dir: 306e wire out Sorted: 42 Kg Total catch PDEPTH: 4 55 Towing dir: 306e wire out Sorted: 42 Kg Total catch PDEPTH: 4 55 Towing dir: 306e	21.00 6631.02 TYPE: PT No; (in) Purpose Area co GearCom validit; 1: 150 m Sp 1: 1070.70 CATCH/J weight n 1582.50 22.80 22.80 22.80 22.80 22.80 27.00 14.40 10.80 9.00 4.40 10.80 1.20 0.66 0.32 0.02 2136.64 YPE: PT No;4 m) Purpose Area cod GearCond validity : 150 m Spe : 694.42 CATCH/JB weight n 540.00 257.76 180.00 87.80 68.40 69.48 69.	28 28 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	0.32 100.04 DJECT STAT FION:Lat Long (a) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c	ION:1206 N 1527 W 1653 2141.40 2 SAMP ON:1207 N 1534 W 1649 388.84 SAMP
DATE: 4/11/00 GEAR f start stop duration THE ion:06:41300 (m DGG 11258.39 1259.95 1.54 PDEPTH: 10 DDEPTH: 55 Sorted: 71 Kg Towing dir: 294e Wire out Sorted: 71 Kg Towing dir: 294e Wire out Sorted: 71 Kg Total catel Spectes Chloroscombrus chrysurus Belene dorsalis Trachydeuterus auritus Trachydeuterus auritus Trachydeuterus auritus Trachydeuterus auritus Trachydeuterus aurita adnogramma glaycos trachydeuterus quachancho ngrauls enerasicolus loteuthis africana oligo vulgaris ardinella aurita ardinella maderensis otal DATE: 4/11/00 GEAR T start stop duration TIME: 102:17:03 02:147:02 0 (mi LoG :1273.45 1275.18 1.72 PDEPTH: 0 DDEPTH: 0	21.00 6631.02 TYPE: PT No; (in) Purpose Area co GearCom validit; 150 m Sp n: 1070.70 CATCH/I weight i 1502.50 63.00 52.80 63.00 52.80 63.00 52.80 63.00 14.40 10.80 91.20 63.00 52.80 0.32 0.02 2136.64 YPE: PT No;4 n) Purpose Area cod GearCom Validit; 150 m Spe 1.20 0.60 0.32 0.02 2136.64	28 PR(4 Code: 1 de : 4 d. code: 2 de : 4 d. code: 3 0 CATCH HOUR 4 CATCH 0 0 1290 720 480 720 480 720 480 300 300 300 300 300 300 300 3	0.32 100.04 DJECT STAT FIONILAT Long (A OF TOT. C 73.90 12.27 4.26 2.94 2.47 1.26 0.67 0.50 0.42 0.08 0.06 0.03 0.01 99.76 JECT STATI LONG 10.12 1.27 4.26 0.67 0.50 0.42 0.08 0.06 0.03 0.01 99.76 JECT STATI LONG 1.2.17 1.26 0.67 0.55 0.55 0.12 0.27 0.55 0.55 0.12 0.27 0.55 0.55 0.12 0.27 0.55 0.55 0.55 0.12 0.27 0.55 0.55 0.12 0.27 0.55 0.55 0.12 0.27 0.55 0.55 0.01 0.55 0.01 0.55 0.01 0.55 0.01 0.55 0.01 0.55 0.01 0.55 0.01 0.55 0.01 0.55 0.01 0.55 0.01 0.55 0.01 0.01 0.55 0.01 0.55 0.01 0.55 0.01 0.55 0.01 0.01 0.55 0.01 0.01 0.55 0.01 0.01 0.01 0.01 0.01 0.05 0.01 0.01 0.05 0.01 0.01 0.01 0.01 0.05 0.01 0.01 0.05 0.01 0.01 0.05 0.01 0.01 0.05 0.01 0.05 0.01 0.01 0.05 0.01 0.01 0.05 0.01 0.05 0.01 0.05 0.01 0.01 0.05 0.01 0.05 0.01 0.05 0.01 0.05 0.01 0.01 0.05 0.01 0.01 0.05 0.01 0.01 0.05 0.01 0.01 0.05 0.01 0.01 0.01 0.05 0.01 0.01 0.01 0.01 0.05 0.01 0.05 0.01 0	ION: 1206 N 1527 W 1653 2141.40 2 SAMP ON: 1207 N 1534 W 1649 388.84 SAMP
Total DATE: 4/11/00 GEAR ' start stop duration TIME 100:06(41300)36(48300 (m) LOG 112580.39 1259.95 1.54 FOEPTH: 10 10 DDEPTH: 55 69 Towing dir: 294e Wire out Sorted: 71 Kg Total catel SPECIES Chloroscombrus chrysurus telene dorsalis trach/duterus auritus Trachurus tecae Decomposition of the start stop duration TIME 102:17103 02:47:02 30 (m) LOG 1273.45 1275.18 1.72 FDEFTH: 0 0 DDEPTH: 44 55 Towing dir: 306e Wire out Sorted: 42 Kg Total catch PECIES Cachydeuterus auritus ichirus lepturus ichirus lepturus ichirus decomposition TIME 202:17:03 02:47:02 30 (m) LOG 1273.45 1275.18 1.72 FDEFTH: 0 0 DDEPTH: 44 55 Towing dir: 306e Wire out Sorted: 42 Kg Total catch PECIES Cachydeuterus auritus ichirus lepturus ichirus ichirus lepturus ichirus ich	21.00 6631.02 TYPE: PT No: Area condition of the second	28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	0.32 100.04 DJECT STAT FIONILAT Long (A OF TOT. C 73.90 12.27 4.26 2.94 2.47 1.26 0.67 0.50 0.42 0.67 0.50 0.42 0.67 0.50 0.42 0.67 0.50 0.42 0.23 0.99 7.65 0.50 0.42 0.99 7.65 0.50 0.42 0.67 0.50 0.50 0.50 0.50 0.42 0.22 0.22 0.08 0.06 0.50	ION:1206 N 1527 W 1653 2141.40 C SAMP ON:1207 N 1534 W 1649 3888.84 SAMP
Total DATE: 4/11/00 GEAR f start stop DUTE: 4/11/00 GEAR f DEPEMP: 10 100:16:43 00 (m) DOTE: 1256:39 1259.95 1.54 PDEPTH: 55 69 Towing dir: 294e Wire out Sorted: 71 Kg Total catel Species Towing dir: 294e Wire out Procombrus chrysurus Selene doraalis trachydouterus auritus Trachydouterus auritus Trachurus trecae Secapterus rhonchus trachydouterus auritus Trachinotus ovatus Bybyraena guachancho Segans bilgo vulgaris Sepia epia elegans ardlinella aurita ardinella aurita ardinella aurita otal THE: 1/1/00 GEAR T DATE: 4/11/00 GEAR T Secondation THM: 102:171/03 02:147:102 30 (mi IO DATE: 4/11/00 GEAR T Secondation THE: 1273.45 1275.118 1.72 PDEPTH: 0 0 DDEPTH: 4 55 Towing dir: 306e Wire out Sorted: 42 Kg Total catch PECIES Cachyd	21.00 6631.02 FYPE: PT No: (in) Purpose Area co- GearCom validit; 150 m Spin: 1070.70 CATCH// weight i 1502.50 61.00 52.80 91.20 63.00 52.80 91.20 64.40 1.80 0.60 0.64 87.80 68.40 60.48 57.60	28 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	0.32 100.04 DJECT STAT FIONILAT Long ((0 OF TOT. (73.90 12.27 4.26 2.47 1.26 0.67 0.50 0.42 0.67 0.50 0.42 0.67 0.5	ION:1206 N 1527 W 1653 2141.40 C SAMP ON:1207 N 1534 W 1649 300.04 SAMP
Total DATE: 4/11/00 GEAR ' start stop duration TIME :00:06:43 00:16:48 00:16:48 PDEPTH: 10 10 DDEPTH: 55 69 Towing dir: 294e Wire out Sorted: 71 Kg Total catel SPECIES Thorosecombrus chrysurus ielene dorsalis Drachydeuterus auritus Trachurus tieccae becapterus rhonchus Trachinotus coatus Diloteuthis africana oligo vulgaris epia elegans ardinella aurita ardinella maderensis otal DATE: 4/11/00 GEAR T start stop duration TIME :02:17:03 02:47:02 30 (mi LOG :1273.45 1275.18 1.72 PDEPTH: 0 0 DDEPTH: 44 55 Towing dir: 306e Wire out Sorted: 42 Kg Total catch PECIES Cochydeuterus auritus Sorted: 42 Kg Total catch DATE: 42 Kg Total catch	21.00 6631.02 FYPE: PT No: in) Purpose Area co- GearCom validit: 150 m Spin: 1070.70 CATCH// weight i 1502.50 61.00 52.80 91.20 63.00 52.80 91.20 63.00 52.80 91.20 63.00 52.80 91.20 63.00 52.80 91.20 63.00 52.80 9.00 14.40 10.80 9.00 9.00 1.80 1.80 0.60 0.32 0.02 2136.64 YPE: PT No:4 m Spin: 694.42 CATCH//B weight m Spen: 64.40 60.48 57.60 57.60 57.60 19.44 11.52 6.48 3.60	28 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	0.32 100.04 DJECT STAT FION:Lat Long ((()) () () ())) ())) ())) ())) ()))) ())))) ())))) ()	ION:1206 N 1527 W 1653 2141.40 C SAMP ON:1207 N 1534 W 1649 3888.84 SAMP

1352.84

97.41

Total

 PROJECT STATION:1208

 DATE: 4/11/00
 GEAR TYPE: PT No.14
 POSITION:1At N 1538

 start stop duration
 Long W 1655

 TIME: 103:48:08 04:18:09 30 (min) Purpose code: 1
 LOG V 1655

 LOG :1280.87 1282.81 1.94
 Area code : 4

 FPEFTH: 0
 0
 Gearcond.code:

 DDEPTH: 90
 102
 Validity code:

 Towing dir: 3066 Wire out: 150 m Speed: 40 kn*10
 Sorted: 40 kn

Sorted: 40 Kg Total catch: 39.61 CATCH/HOUR: 79.22

SPECIES	CATCH/HOUR weight numbers	% OF TOT. C	SAMP
Total			

DATE :	4,	/11/00		GE	AR TYP	E: PT	Not	7 1	Pos	ITION	Lat	N	1543
		start	stop	durat.	ion						Long	W	1638
TIME	: (08:40:29	09:12:03	1 32	(min)	Pur	pose	code		1			2000
LOG	: ;	1324.31	1326.18	1.86		Are	a cor	le		4			
FDEPTH	:	10	10			Gea	Con	1. cor	le i				
BDEPTH	1	20	21			Val	idity	V COO	lei				
	1	owing d	ir: 10ø	Wire	out:	150 m	Spe	ed:	35	kn*10	(

Sorted: 26 Kg Total catch: 192.45 CATCH/HOUR: 360.84

SPECIES	CATCH	& OF TOT. C	SAMP	
	weight	numbers		
Chloroscombrus chrysurus	249.56	741448	69.16	
Pomadasys jubelini	59.06	113	16.37	
Trichiurus lepturus	21.19	60	5 87	
Ilisha africana	5.36	62	1 49	
Galeoides decadactylus	4.88	13	1 35	
Brachydeuterus auritus	4.13	32	1 14	
Selene dorsalis	3.71	53	1.07	
Sphyraena guachancho	3,19	6	0.89	
Sardinella maderensis	3.09	83	0.00	
Stromateus fiatola	2 72	0.5	0.00	
Sardinella aurita	1.86		0.75	
Trachinotus ovatus	1.44	32	0.52	
Caranx senegallus	1.44	11	0.40	
and a second sec	0.00	2	0,18	
Total	360.85		100.00	

DATE:	4/11/00		GEA	R TYPE	PT Note	E POR	ROJECT	STAT	ION	:1210
	ataxt	a 1	A		i i i mort	100	TTTON!	Lat	14	100%
	BLAIL	acop	durati	on				Long	W	1640
TIME	:10:39:55	11:08:14	28	(min)	Purpose	code:	1	1.2.1		
LOG	:1337.44	1339.32	1.79		Area cod	le .	A			
FDEPTH	: 10	10			GearCond	L.code:				
BDEPTH	: 34	41			Validity	code:				
	Towing d	ir: 288ø	Wire	out: 1	50 m Spe	ed: 35	kn*10			

Sorted: 32 Kg Total catch: 172.01 CATCH/HOUR: 368.59

PECIES CATCH/HOUR			S OF TOT. C	SAMP
	weight	numbers		
Brachydeuterus auritus	105.00	999	28.49	
Trachinotus ovatus	80.87	28	21 94	
Chloroscombrus chrysurus	55.05	309	14 94	
Decapterus rhonchus	44.55	180	12.09	
Carcharhinus limbatus	32.01	26	8.68	
Sardinella maderensis	17.40	75	4.72	2254
Ilisha africana	12.90	180	3.50	AA.34
Selene dorsalis	6.30	144	1 71	
Stromateus fiatola	3.64	4	0.00	
Galeoides decadactylus	3.30	6	0.90	
Alectis alexandrinus	2.61	9	0.71	
Sardinella aurita	1.80	75	0.49	
Pomadasys jubelini	1.80	4	0.49	
Lagocephalus lagocephalus	1.20	4	0.43	
Remora remora	0.11		0.33	
Sphyraena guachancho	0.04	2	0.01	
Total	368.58		100.02	

DATE:	4/11/00		GEAR	TYPE:	BT 1	No:2	P POS	ROJECT ITION:	Lat	TION N	:1211
	start	stop	duration	1					Long	w	1647
TIME	:14:20:20	14:49:37	/ 29 (п	in) F	urp	ose cor	le i	1	Long		1047
LOG	:1372.84	1374.31	1.45	1	rea	code	· · ·	4			
FDEPTH	1 23	21		G	eard	lond. ce	de				
BDEPTH	: 23	21		v	alic	lity co	de				
	Towing di	r: 66ø	Wire ou	t: 150	m	Speed	30	kn*10			

Sorted: 68 Kg Total o	catch	1107.1	2 CAT	CH/HOUR :	2290.59
SPECIES		CATCH	/HOUR	S OF TOT.	C SAMP
		weight	numbers		e orun
Brachydeuterus auritus		793.82	8466	34.6	6
Chloroscombrus chrysurus		436.97	5052	19.0	0
Trichiurus lepturus		273.10	1502	11.0	2
Sepia officinalis hierredda		218 48	319	11.9	4
Ilisha africana		141 10	2267	9.5	•
Selene dorsalis		112 00	2307	6.1	D .
Alectis alexandrinus		70.00	2230	5.7	5
Galeoides decadactylus		78.29	137	3.4	2
Banadagua dubahini		77.38	2450	3.31	3
Pomadasys jubelini		68.28	182	2.91	3
Stromateus fiatola		31.61	41	1.30	1
Arius latinoutatur		10 10		4.50	

Stromateus fiatola	31.61	41	1 38
Arius latiscutatus	15.48	46	0.68
Pteroscion peli	10.01	91	0.44
Sphyraena guachancho	5.46	14	0.24
Sepia bertheloti	1.82	46	0.08
GOBIIDAE	1.82	91	0.08
Sardinella aurita	1.82	46	0.08
Sardinella maderensis	1.82	46	0.08
Lithognathus mormyrus	1.32	2	0.06
Total	2290.58		100.02

	PROJECT STATION: 121
DATE: 4/11/00 GEAF	TYPE: PT No:4 POSITION:Lat N 160
start stop duratio	n Long W 164
TIME :23:16:58 23:48:45 32 (min) Purpose code: 1
LOG :1457.19 1458.82 1.61	Area code : 4
FDEPTH: 5 5	GearCond.code:
BDEPTH: 54 63	Validity code:
Towing dir: 270ø Wire c	ut: 150 m Speed: 30 kn*10
Sorted: 50 Kg Total cat	ch: 148.74 CATCH/HOUR: 278.89
SPECIES	CATCH/HOUR & OF TOT C SAM
	weight numbers
Trachurus trecae	84.75 1191 30.39
Alectis alexandrinus	43.50 30 15.60
Brachydeuterus auritus	34.20 195 12.26
Stromateus fiatola	28,69 36 10.29
Selene dorsalis	21.75 113 7.80
Trichiurus lepturus	16.20 240 5.81
Decapterus rhonchus	16.05 68 5.75 2254
Sphyraena guachancho	12.00 15 4.30
Engraulis encrasicolus	6.00 17700 2.15
Chloroscombrus chrysurus	5.21 23 1.87
Sphyrna zygaena	3.56 2 1.28
Loligo vulgaris	2.70 1635 0.97
Lagocephalus laevigatus	2.10 23 0.75
Alloteuthis africana	1.65 578 0.59
Sepia officinalis hierredda	0.30 23 0.11
Sardinella aurita	0.15 15 0.05
Todarodes sagittatus	0.08 30 0.03
Total	278.89 100.00

PROJECT STATION:1212

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Annex II Instruments and fishing gear used

The Simrad EK-500, 38kHz scientific echo sounder was used during the survey for fish abundance estimation. The Bergen Echo Integrator system (BEI) logging the echogram raw data from the sounder, was 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 38kHz echo sounder where as follows:

Tranceiver-1 menu (38 kHz lowering keel)

Transducer depth	5.5 m
Absorbtion coeff.	10 dB/km
Pulse length	medium (1ms)
Bandwidth	wide
Max power	2000 Watt
2-way beam angle	-21.0 dB
SV transducer gain	27.39 dB
TS transducer gain	27.52 dB
Angle sensitivity	21.9
3 dB beamwidth	6.8 dg
Alongship offset	-0.03 "
Athwardship offset	0.06 "

Display menu

Echogram	1
Bottom range	10 m
Bottom range start	10 m
TVG	20 log R
Sv colour min	-60 dB

Printer- menu

Echogram	1
Range	0 - 50 or $0 - 100$ and $100 - 350$ m
TVG	20 log R

Bottom detection menu Minimum level -40 dB

Hydrography

Conductivity, temperature, density and dissolved oxygen were sampled at CTD stations with Seabird 911 + CTD sonde. The salinity is computed from the data on conductivity by the software retrieving data from the sensors.

Fishing gear

The vessel has two different sized "Åkrahamn" pelagic trawls and one "Gisund super bottom trawl". For all trawls, the Tyborøn, 7.8m² (1670kg) trawl doors were used. Complete drawings of the trawls used are included.

Annex III Pooled length distribution by species and regions









Annex IV Stock length distribution by numbers and weight

	Sardinella a	aurita								
		1	N (millions)			Biomass (tonnes)				
Length	St. Louis-	Cape Vert-	Gambia	Casa-	TOTAL	St. Louis-	Cape Vert-	Gambia	Casa-	ΤΟΤΑΙ
cm	Cape Vert	Gambia		mance		Cape Vert	Gambia	Guinolu	mance	IOTAL
5									manoo	
6										
7										
8										
9										
10										
11										
12										
13				15 576	15 576				330	220
14				31 152	31 152				817	917
15									017	017
16			1 355		1 355			52		50
17			1 355		1 355			62		60
18								02		02
19			2 710		2 710			173		172
20			1 355		1 355			100		1/0
21			9 483		9 483			811		911
22			19 066		19 066			1 868		1 868
23		3 676	10 607		14 282		410	1 184		1 504
24		11 027	19 859	15 576	46 461		1 395	2 512	1 970	5 876
25		36 756	16 588		53 343		5 241	2 365	1 370	7 607
26		18 378	19 859	46 728	84 965		2 941	3 178	7 478	13 508
27		14 702	31 589		46 291		2 630	5 650	1 470	8 279
28		18 378	9 252		27 630		3 659	1 842		5 501
29										0.001
30			1 355		1 355			331		331
31										001
32		3 676			3 676		1 085			1.085
33										1 005
34			1 355		1 355			478		478
35										470
TOTAL		106 591	145 785	109 032	361 409		17 361	20 606	10 595	48 561

Annex IV Continued

	N (millions)					Biomass (tonnes)				
Length	St. Louis-	Cape Vert-	Gambia	Casa-	TOTAL	St. Louis-	Cape Vert-	Gambia	Casa-	ΤΟΤΑΙ
cm	Cape Vert	Gambia		mance		Cape Vert	Gambia	Glambia	mance	IOIAL
5							<u> </u>		manee	
6										
7										
8			1 355		1 355			7		-
9			1 355		1 355			10		
10			1 355		1 355			13		10
11			2 579	12 115	14 694			24	150	10
12			18 055		18 055			202	156	192
13			25 793	12 115	37 907			505	050	303
14			9 783		9 783			057	256	802
15			7 868		7 868			257		257
16			5 159	36 344	41 502			202	1 404	252
17			2 710		2 710			199	1 404	1 603
18					2710			125		125
19										
20			14 054	3 407	17 461			1.041	050	1 00 1
21		3 676	84 895	114 598	203 168		314	7 041	252	1 294
22		29 404	85 797	156 777	271 978		2 890	9 405	9795	17 365
23		129 432	110 160	80 179	319 771		14 446	10 205	15 358	26 643
24		171 570	72 504	194 737	438 811		21 600	0 170	8 949	35 690
25		222 897	57 179	86 517	366 592		21 099	9170	24 629	55 498
26		66 948	24 222	47 384	138 554		10 715	0 104	7 500	52 276
27		15 621		9 949	25 570		2 704	3011	1 770	22 175
28		3 676		4 361	8 037		730		1779	4 573
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Sardinella maderensis

Annex IV Continued

Trachurus trecae

	N (millions)					Biomass (tonnes)				
Length	St. Louis-	Cape Vert-	Gambia	Casa-	TOTAL	St. Louis-	Cape Vert-	Gambia	Casa-	ΤΟΤΑΙ
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20	2 003	544			2 547	148	189		25	1076
21	1 951				1 951	167	167			337
22	1 951				1 951	191	107			334
23	3 122				3 122	348	348			382
24	6 243	544			6 788	790	858			697
25	1 171				1 171	167	167			1 648
26	1 561			387	1 948	250	250			334
27	1 171				1 171	209	200			562
28						200	203			419
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30										
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TOTAL	34 339	4 898		25 142	64 378	3 156	3 493		1 253	7 902

Annex IV Continued

Length Cape Vert Cape Vert- Gambia Gambia mance TOTAL Cape Vert Cape Vert Gambia Gambia mance Casa- Cape Vert Gambia Gambia Casa- mance TOTAL Cape Vert Cape Vert Gambia Gambia mance Casa- mance TOTAL Cape Vert Cape Vert Gambia Gambia Casa- mance TOTAL Cape Vert 6 1		Decapierus	5 sp.								
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Decapterus sp.



SURVEY OF THE PELAGIC FISH RESOURCES OFF NORTH WEST AFRICA

Cruise Report No 12/2000

Part II MAURITANIA 10 - 18 November 2000

Centre National Recherches Oceanographie et Peche Nouadhibou, Mauritania

Institute of Marine Research Bergen, Norway

CRUISE REPORTS 'DR FRIDTJOF NANSEN'

SURVEY OF THE PELAGIC FISH RESOURCES NORTH WEST AFRICA

Part II

MAURITANIA

10 - 18 November 2000

by

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Institute of Marine Research Bergen, 1998

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CHAPTER 1 INTRODUCTION

1.1 Objective of the cruise

The general objectives were to estimate the biomass and map the distribution of small pelagic fish stocks off NW Africa (Morocco, Mauritania, Senegal and The Gambia) by hydro-acoustic methods and describe the hydrographic conditions there over a period of 50 days, in October-December 2000. For Mauritania the agreed objectives were:

- To map the distribution and estimate the biomass of the main small pelagic fish using hydroacoustic methods. The species of interest are: sardine *Sardina pilchardus*, sardinella *Sardinella aurita*, *S. maderensis*, horse mackerel *Trachurus trecae*, false scad *Decapterus rhonchus*, and anchovy *Engraulis encrasicolus*.
- To identify and describe the size distribution of the target fish populations by midwater and bottom trawl sampling and process the catches by recording weight and number by species.
- To sample standard hydrographical transects for temperature, salinity and oxygen at about 16°40' N, 18°00' N, 19°00' N, 20°00' N and off Cape Blanc.

The time allocated for this part of the survey, off Mauritania, was 7 days.

1.2 Participation

Members of the scientific teams were:

Centre National de Recherches Océanographiques et des Pêches, Mauritania: Ely Ould BEIBOU, Sall MAMADOU and M'bodj OUMAR

Centre de Recherches Océanographiques de Dakar-Thiaroy, Senegal: Abdoulaye SARRE
Department of Fisheries, The Gambia: Juldah JALLOW

Institut National de Recherches Halieutiques, Morocco: Hassan MOUSTAHFID

Institute of Marine Research, Norway: Reidar TORESEN, Valantine ANTHONYPILLAI, Tore MØRK and Jan Frode WILHELMSEN

1.3 Narrative

After embarking of scientists from Mauritania and Morocco, the survey of the Mauritanian shelf started on November the 10 with systematic parallel course tracks spaced about 10 NM (nautical miles) apart. To cover the whole distribution area of pelagic fish, the shelf was covered from the 15 m isobath and offshore to the 500 m isobath. Trawling was done irregularly, either to identify echo registrations or to check 'blindly' if fish were mixed with the plankton in the upper layers of the water column. In the latter case, pelagic trawl with floats was often used. A smaller pelagic trawl or the bottom trawl with floats was used for sampling the pelagic fish in very shallow waters (depth less than 25 m). The shelf was covered up to Cape Blanc before a call was made in Nouakchott on November 18, to let participants from the Senegal, The Gambia and Mauritania disembark and scientists from Morocco come onboard.

The hydrographic profile at 16°40' N was sampled on 10 November, at 18°00' N on 12 at 19°00' N on 14 at 20°00' N on 15 and off Cape Blanc on 16 November.

The survey was terminated in Nouakchott on 18 November.

1.4 Methods

Environmental Data

Surface temperature and meteorological data from a weather station were logged automatically and recorded with position and bottom depth every nautical mile sailed.

Hydrographic profiles were collected with a CTD sonde and temperature, salinity, and pressure (depth) were logged by the Seabird Software. From these data series, records were selected from standard depths and presented in figures.

Biological sampling

Biological sampling of the fish was carried out using trawls. A pelagic trawl with floats was often used. A smaller pelagic trawl or the bottom trawl with floats was used for sampling the pelagic fish in very shallow waters (depth less than 25 m). Annex II gives a description of the instruments and the fishing gear used. All catches were sampled for composition by weight and numbers of each species caught. Species identification was based on the FAO Species Guides. Length frequency distributions, by total fish length in cm, of the selected target species were taken in all the stations where they were present. Individual weight measurements were taken regularly to estimate the condition factor in the length-weight relationship:

$$\overline{w} = \frac{cond}{100} \times L^3$$

The specific condition factors obtained from the samples and applied for this survey were: 0.96 for sardinellas and horse mackerels, and 1.0 for pilchard.

For the estimation of the biomass of carangids and associated species, an overall average length of 23 cm and a condition factor of 0.88 (to calculate the mean length of this length group) were applied.

All data on fishing stations and fish length sampling were made available to the participants on diskettes.

The complete records of fishing stations are shown in Annex I.

The following target groups were used for Senegal:

sardinellas (flat sardinella Sardinella maderensis and round sardinella S. aurita),
 horse mackerels (Atlantic horse mackerel Thrachurus trecae, round scad Decapterus punctatus, and false scad Decapterus rhonchus).

3) other pelagic carangids and associated species (Atlantic bumper Chloroscombrus chrysurus, African lookdown Selene dorsalis, chub mackerel Scomber japonicus, largehead hairtail Trichiurus lepturus, and barracudas Sphyraena spp.),

4) other demersal species (such as bigeye grunt *Brachydeuterus auritus*, Sparidae and Haemulidae), and

5) other clupeids such as West African ilisha Ilisha africana.

Acoustic sampling

A SIMRAD EK500 Echo-sounder was used with the settings as shown in Annex II. The Bergen Integrator (BEI) was used for analysis and allocation of the integrated s_A – values to the individual specified target groups by 5 NM intervals. The allocation of values to target groups was based on a combination of a visual scrutiny of the behaviour pattern as deduced from echo diagrams, the BEI analysis, and the catch compositions.

In cases where the target category of fish contains more than one species (sardinellas and horse mackerels), the mean s_A – value allocated to the category is divided between the species in the same ratio as their contribution to the mean back scattering strength in the length frequency samples.

The following target strength (TS) function was applied to convert s_A -values (mean integrator value for a given species or group of species in a specified area) to number of fish:

$$TS = 20 \log L - 72 dB$$

Which can be converted (see Toresen *et al.* 1998 for details) to the area form (scattering cross sections of acoustic targets):

$$C_{Fi} = 1.26 \cdot 10^{6} \cdot L^{-2}$$

where L is total length in 1 cm length group *i* and $C_{\rm F}$ (m⁻²) is the reciprocal back scattering strength, or so-called fish conversion factor. In order to split and convert the allocated s_A – values (m²/NM²) to fish densities (numbers per length group per NM²), the following formula was used:

$$\rho_i = S_A \cdot \frac{p_i}{\sum_{i=1}^n \frac{p_i}{C_E}}$$

where

 ρ_i = density of fish in length group *i*

 S_A = mean integrator value

 p_i = proportion of fish in length group *i*

 $\sum_{i=1}^{n} \frac{P_i}{C_{Fi}} = \text{the relative back scattering cross section (m²) of the length frequency$

sample of the target species, and

 C_{fi} = reciprocal back scattering cross section (σ_{bs}^{-1}) of a fish in length group *i*.

The integrator outputs were split in fish groups using a combination of behaviour pattern as deduced from echo diagrams, the BEI analysis and catch composition as described below. The following groups were used for Senegal: 1) sardinellas, 2) horse mackerels, 3) carangids and associated species, and 4) demersal fish.

The above equations show that the conversion from s_A -values to number of fish is dependent on the length composition of the fish. It is therefore important to get representative length distributions from the stock in the whole distribution area.

When the size classes (of e.g. young fish and older fish) are well mixed, the various length distributions can be pooled together with equal importance. Otherwise, when the size classes are segregated, the total distribution area has to be post-stratified, according to the length distributions, and separate estimates are made for the regions containing fish with equal size.

A systematic approach to a) divide the s_A -value between species in a category of fish (e.g. *Sardinella aurita* and *S. maderensis*) and b) produce pooled length distributions of a target species for use in the above equation and c) calculate the biomass estimates for a region, is obtained through the following procedure:

- The samples of the species in the category (e.g. sardinellas) are respectively pooled together with equal importance (normalized). A sample of 60 flat sardinella in one sample will have equal importance to 30 fish in another sample and not the double weight in accordance with the number of fish in the sample.
- The mean back scattering strength (ρ/s_A) of each length frequency distribution of the target species is calculated and summed. This is automatically done if the length distributions are punched into the Excel spread-sheet prepared for the estimation of the abundance of fish.

- The mean s_A -value allocated to the category of fish in the region is divided between the species in the same ratio as their relative contribution to the mean back scattering strength of the length groups in the sample (also automatically done in the Excel spread-sheet given that the s_A value for the region is punched into the sheet).
- The pooled length distribution is used, together with the mean s_A-value, to calculate the density (numbers per square NM) by length groups and species, using the above formula. The total number by length group in the area is obtained by multiplying each number by the area. (This is done in the Excel spread-sheet, given that the area of the region is punched into the sheet).
- The numbers are converted to biomass using the estimated weight at length. (Done in the Excel sheet if the condition factor is punched).



Figure 1 Course track and fishing and hydrographic stations

CHAPTER 2 SURVEY RESULTS

2.1 Hydrography

Figure 2 shows the distribution of temperature, salinity and oxygen in the five profiles and Figure 3 the sea surface temperature at 5 m of depth.

The distribution of surface temperature showed that, near the coast, there was in general lower temperatures than offshore. Over the shelf from St. Louis to Cape Timiris there was a decrease from 24°C to 23°C offshore and from 22 to 19°C inshore.

Between Cape Timiris and Cape Blanc, the surface temperature was low inshore, 18-19°C, increasing offshore to 20°C. Off Cape Blanc, the offshore temperature was 21°C while inshore, the temperature was less than 17°C.

All hydrographic profiles showed a sharp thermocline.

2.2 Pelagic fish on the shelf from St. Louis to Cape Timiris

Figures 4, 5 and 6 show the distribution of the main groups of pelagic fish by contoured acoustic densities for the whole shelf of Mauritania.

Sardinellas were found over the inner shelf in a nearly continuous belt along the entire coast from St. Louis to some 10 NM north of Cape Timiris, see Figure 4. Particularly dense school areas were located between about 17°05' N and 17°30' N, and at about 18°30'N and at 18°50'N. In addition, more offshore aggregations were found between 18°45' N - about 19°30' N.



Figure 2. Hydrographic profiles with distribution of temperature, salinity and oxygen









Figure 2. continued.

The samples showed sardinellas of varying size, - the round sardinella south of CapeTimiris with modal lengths of 14 and 34 cm, while the flat sardinella had modal lengths of 14 and 30 cm, see Annex III. The stock length compositions by numbers and weight are shown in Annex IV.

Table 1 gives the biomass estimates of sardinellas based on their size composition in the area of sampling. The total estimate was 880 thousand tonnes of which 63% was flat- and 37% round sardinella.



Figure 3 Sea surface temperature.



Figure 4 Distribution of sardinellas.



Figure 5 Distribution of horse mackerels.

1



Figure 6 Distribution of carangids and associated species.

The distribution of horse mackerels is shown in Figure 5. Horse mackerels occurred in two main concentrations; a large one between $17^{\circ}05$ 'N - $18^{\circ}55$ 'N, and a smaller one between $19^{\circ}00$ 'N and $19^{\circ}55$ 'N. The densest concentrations in these aggregations were found at about $18^{\circ}00$ 'N, $18^{\circ}50$ 'N and at $19^{\circ}05$ 'N. The main aggregations were found at the edge of the shelf, and at daytime the fish were found close to the bottom at depths around 50-120 m. The biomass was estimated at 567 000 tonnes. The horse mackerels were mostly *Trachurus trecae*, which dominated the biomass estimate (97%). False scad (*Decapterus ronchus*) were also present in the samples, mostly in the near shore concentrations. *T. trachurus* were observed only in very few samples during this survey. Three modal lengths were observed in the total length distribution of *Trachurus trecae*, namely 12, 22 and 38 cm.

Figure 6 shows the distribution of the other carangids and associated species, which took the form of a continuous belt of various densities on the entire shelf. The total biomass was estimated at 206 000 tonnes. The samples from the distributional areas consisted of bumper, false scad, West African Spanish mackerel, Atlantic bonito, pompano with small amounts of chub mackerel, *Scomber japonicus* and barracudas.

Table 1. St. Louis to CapeTimiris. Biomass estimates of pelagic fish, 1 000 tonnes.

Flat sardinella	Round sardinella	Horse mackerels	Other Carangids etc.
521	309	567	206

2.3 Pelagic fish on the shelf from Cape Timiris to Cape Blanc

In earlier years, aggregations of juvenile sardinella and carangids were found in the area between Cape Timiris and Cape Blanc. Such registrations were not done this year.

Only a few specimens of adult sardinella were caught in the trawl catches in this area and sparse registrations were done by the echo sounder system. The estimate for sardinella in the area was thus, only some 32 000 tonnes, of which 62% were flat sardinella.

Horse mackerel were recorded in two smaller, but rather dense areas at the outer parts of the shelf. The aggregations consisted of medium sized (modal length 21 cm) *Trachurus trecae* and were estimated at 172 000 tonnes.

Between Cape Timiris and Cape Blanc, two aggregations of rather high densities of pilchard were recorded (Figure 7). The aggregation was estimated at 726 000 tonnes. The samples showed that there was a mixture of different size groups of pilchard in the area, with modal lengths of 14, 19 and 23 cm. The largest pilchard were found in an aggregation somewhat offshore. The other concentration extended northwards to the northern border of the survey area.

A limited number of anchovy were present in the catches on the inner parts of the shelf. However, no anchovy schools could be identified on the echograms, and therefore no acoustic estimate is done for anchovy.

The carangids and associated species were found in as a continuous belt of low-density shoals all the way to Cape Blanc (Figure 6). The biomass was estimated at 89 000 tonnes. The catches of this group consisted mainly of barracuda, Spanish mackerel and bluefish (*Pomatomus saltatrix*).



The survey was conducted successfully in the period 10 to 18 November with a course track of 2 200 NM and 42 fishing stations (Figure 1).

The hydrographical data showed lowered surface temperatures inshore between St. Louis and Cape Timiris with upward slanting isoterms shorewards from about 50 m depth.

Mainly adult sardinella were found in high densities between St. Louis and Cape Timiris, while no juveniles were found in the area between Cape Timiris and Cape Blanc as in previous years (Figure 4). Horse mackerels were found in medium densities in four main areas; the largest one extending from about 17°00'N to about 19°00'N (Figure 5). Carangids (not including horse mackerel) and associated species occurred in low densities all along the shelf, with patches of high density areas (Figure 6).

Pilchard were found in the area south of Cape Blanc and were estimated at 726 000 tonnes. Pilchard has not been found in this area recently.

The total biomass of sardinella was estimated at 920 000 tonnes (63% flat and 37% round sardinella), that of horse mackerel at 743 000 tonnes and that of the carangids and associated species at 295 000 tonnes, see Table 2.

	Flat sardinella	Round sardinella	Horse mackerel	Carangids etc.
St. Louis-Cape Timiris	556	324	567	206
Cape Timiris-Cape Blanc	20	20	176	89
Total	576	344	743	295

Table 2 Summary of biomass estimates of pelagic fish, Mauritania. 1 000 tonnes.

Table 3 lists biomass estimates of sardinella and carangids and associated species from previous 'Dr Fridtjof Nansen' surveys of this shelf region. Compared with the surveys from the same season: NovDec/86, NovDec/95 and NovDec/96, the estimate of 920 000 tonnes of sardinella from the current survey is low, however higher than last years estimate of 700 000 tonnes. The carangid estimate (including horse mackerels) of 1 038 000 tonnes is the highest ever estimated in this period of the year in Mauritania.

Survey:	Sardinellas	Carangids etc.
AprMay-81	20	370
Sept -81	75	*
FebMar-82	50	470
NovDec-86	300	540
FebMar-92	1970	190
NovDec-95	178	190
NovDec-96	1405	400
NovDec-97	1200	660
NovDec-98	1125	284
NovDec-99	742	559
NovDec-00	920	1038

Table 3 Biomass estimates from 'Dr Fridtjof Nansen' surveys of the Mauritanian shelf, thousand tonnes.

ANNEX I Records of fishing stations

DATE:10/11/00 GEAR T	YPE: PT No:7	P POS	ROJECT STAT	N 1610
TIME :07:54:15 08:24:09 30 (mi)	n) Purpose	code:	Long	W 1633
LOG :1946.11 1947.65 1.52	Area cod	0 1	3	
BDEPTH: 19 27	Validity	code:		
Towing dir: 270ø Wire out	: 150 m Spe	ed: 30	kn*10	
Sorted: 39 Kg Total catch	231.60	CAT	CH/HOUR:	463.20
SPECIES	CATCH/H weight n	OUR	% OF TOT.	C SAMP
Sardinella aurita	360.00	1500	77.72	2257
Trachinotus ovatus	12.00	1140	18,13	2256
Brachydeuterus auritus Chloroscombrus chrysurus	3.60	36	0.78	
metel	3.60	24	0.78	
Iotai	463.20		100.00	
		-		
DATE:10/11/00 GEAR TY	PE: BT No:	PP	ROJECT STAT	N 1621
start stop duration TIME :13:39:09 14:12:02 33 (min) Purpose	oder	Long	W 1633
LOG :1997.79 1999.32 1.50	Area cod	D I	3	
BDEPTH: 20 23	GearCond	code:		
Towing dir: 350¢ Wire out:	120 m Spee	ed: 30	kn*10	
Sorted: 68 Kg Total catch:	836.42	CATO	CH/HOUR:	1520.76
SPECIES	CATCH/HC	JUR	S OF TOT.	C SAMP
Sparus caprulacations t	weight nu	mbers		
Galeoides decadactylus	214.11 154.73	522 836	14.08	
Pomadasys rogeri	144.27	1045	9.49	
Chloroscombrus chrysurus	131.73	62 1004	8,66	
Brachydeuterus auritus Juv.	96.18	962	6.32	
Selene dorsalis	71.09	84	4.67	
Pomadasys incisus	60.64	251	3.99	
Trichiurus lepturus Diplodus vulgaris	56.91	171	3.74	
Plectorhinchus mediterraneus	52.27	125	3.49	
DREPANIDAE	33.45	125	2.20	
Sardinella aurita	31.36	125	2.06	
Ilisha africana	23.42	418	1.54	
Pteroscion peli Sardinella maderensis	23.00	209	1.51	
Sphyraena guachancho	19.65	544	1.43	2258
Campogramma glaycos	18.82	20	1.24	
Pagellus bellottii Dentex canariensis	15.05	84	0.99	
Chaetodon hoefleri	11.71	62	0.83	
Pseudupeneus prayensis	9.62	62	0.63	
Pteromylaeus bovinus	5.64	20	0.50	
Mycteroperca rubra	4.55	2	0.30	
Leptocharias smithii	4.55	22	0.30	
Sphyrna zygaena	4.04	2	0.28	
Epinephelus aeneus Dasvatis marmorata	3.64	2	0.24	
Carcharhinus sp.	3.24	4	0.23	
Octopus vulgaris	2.07	2	0.14	
Sepia officinalis hierredda	1.35	2	0.09	
Total	1520.79		100.00	
DATE: 10/11/00 GEAR TY	E. PT. No.4	PRO	DJECT STATI	ON:1215
start stop duration	ALL PT NOT4	POST	Long	W 1637
TIME :22:05:09 22:35:03 30 (min)	Purpose c	ode: 1	1	
FDEPTH: 10 10	GearCond.	rode:	3	
BDEPTH: 52 46	Validity	code:		
Towing dir: 90% Wire out:	150 m Speed	1: 32)	cn*10	
Bortean 90 kg Total catch:	90.36	CATCH	HOUR :	180.72
SPECIES	CATCH/HOU weight nur	л ۹	OF TOT. C	SAMP
Decapterus rhonchus	111.32	754	61.60	2259
Carcharhinus sp.	25.00	294	13.83	
Loligo vulgaris	5.68	852	3.14	
sphyraena guachancho Arius heudeloti	5.60	60	3.10	
Alectis alexandrinus	4.60	2	2.99	
Frachinotus ovatus	3.20	8	1.77	
Pomadasys incisus	1.80	10	1.00	
Engraulis encrasicolus	1.28	806	0.71	
Alloteuthis africana Agocephalus laevigatus	0.56	216	0.31	
Boops boops	0.08	2	0.04	
Total	180.72		100.01	

		р	ROJECT STATIC	N:1216
DATE:11/11/00 GEAR	TYPE: BT No:2	POS	ITION:Lat N	1641
TIME :00:02:08 00:31:45 30 (m	in) Burnone	andas	Long W	1629
LOG :2074.10 2075.56 1.45	Area cod	e i	3	
FDEPTH: 19 5	GearCond	.code:	5	
BDEPTH: 19 5	Validity	code:		
Towing dir: 360ø Wire ou	t: 150 m Spe	ed: 30	kn*10	
Sorted: 28 Kg Total catch	129.74	CAT	CH/HOUR: 2	59.48
SPECIES	CATCH/H	JUR	S OF TOT. C	SAMP
	weight n	umbers		
Decapterus rhonchus	158.40	836	61.05	2260
Sphyrna zygaena	36.32	104	14.00	
Chloroscombrus chrysurus	9.60	48	3.70	
Trichiurus lepturus	7.36	40	2.84	
Sphyraena guachancho	7.20	136	2.77	
Rhipoptera marginata	6.68	6	2.57	
Carcharhinus sp.	3.60	4	2.11	
Galeoides decadactylus	3.20	88	1.23	
Brachydeuterus auritus Juv.	2.40	248	0.92	
Pomadasys rogeri	2.36	4	0.91	
Loligo vulgaris	1.60	8	0,62	
Dactylopterus volitans	0.20	2	0.08	
Total	259.48		100.01	
	255.40		100.01	
		PF	OJECT STATIO	N:1217
DATE:11/11/00 GEAR T	YPE: PT No:7	POSI	TION:Lat N	1650
TIME :01:41:18 02:11:12 30 (mi	n) Burnone e	ode.	Long W	1625
LOG :2085.21 2086.74 1.52	Area code	oder	3	
FDEPTH: 5 5	GearCond.	coder	-	
BDEPTH: 21 21 Towing dir: 270¢ Wire out	Validity	code:	kn+10	
	. roo m opee	u. 50	KII-10	
Sorted: 34 Kg Total catch	: 115.85	CATC	H/HOUR: 23	1.70
SPECIES	CATCH/HO	UR	S OF TOT. C	SAMP
Sardinalla madaranaia	weight nu	mbers		
Decapterus rhonchus	27.00	414	45.42	2261
Brachydeuterus auritus Juv.	22.80	168	9.84	
Alectis alexandrinus	20.64	24	8.91	
Pteromylaeus bovinus	10.56	2	4.56	
Carcharhinus sp.	6.36	30	2.74	
Trichiurus lepturus	6.18	18	2.67	
Pomadasys incisus	5.52	24	2.38	
Pomadasys rogeri	4.20	18	1.81	
Campogramma glaugos	3.00	18	1.29	
Selene dorsalis	2.40	24	1.29	
Lagocephalus laevigatus	2.12	2	0.91	
Dactylopterus volitans	1.80	12	0.78	
Sardinella aurita	1.80	6	0.78	
Sphyraena guachancho	1.80	12	0.69	
	1180		0.52	
Total	231.70		99.99	
		DD	o Thom on the could	1010
DATE:11/11/00 GEAR T	PE: PT No:4	POSI	TION:Lat N	1650
start stop duration			Long W	1635
LOG 12094.95 2096.75 1.77	1) Purpose co	oder	1	
FDEPTH: 5 5	GearCond.	roder		
BDEPTH: 58 78	Validity of	: ode:		
Towing dir: 270¢ Wire out:	150 m Speed	1: 38)	kn*10	
Sorted: 12 Kg Total catch:	96.88	CATCH	H/HOUR: 19	3.76
SPECIES	CATCH/HOL	JR 9	OF TOT. C	SAMP
manak instance and have	weight num	abers		
Trachurus tracae	119.92	376	61.89	
Sphyrna zygaena	20.24	1314	20.95	2262
Trichiurus lepturus	9.20	226	4.75	
Decapterus rhonchus	1.68	10	0.87	
Loligo vulgaris	1.00	34	0.52	
Allotheutis subulata	0.60	156	0.31	
Sardinella aurita	0.20	2	0.10	
Total	103 84		100.00	
	193.76		100.01	

DATE:11/11/00 GE	AR TYPE: PT N	PF 0:7 POSI	COJECT STAT	N 1701
start stop durat TIME :08:21:27 08:21:37 32	ion (min) Purpor	se code:	Long	W 1621
LOG :2142.52 2144.16 1.63	Area o	code :	3	
BDEPTH: 19 19	Valid	ity code:		
Towing diri 6 wire	ouci 150 m i	speed: 30	kn*10	
Sorted: 690 Kg Total c	atch: 69.0	08 CATC	H/HOUR 1	129.53
SPECIES	CATCH	H/HOUR	% OF TOT.	C SAMP
Sardinella maderensis	weight 54.64	numbers 199	42.18	2263
Trachinotus ovatus Sardinella aurita	36.94	159	28.52	2264
Sphyrna zygaena Chloroscombrus chrysurus	4.28	2	3.30	22.04
Caranx senegallus	2.51	19	1.94	
Remora remora	2.33	2	1.80	
Total	129.54		100.01	
DAMB, 11/11/00		PR	OJECT STAT	CON: 1220
start stop durat:	AR TYPE: BT No ion	POST	TION:Lat Long	N 1710 W 1632
LOG 12171.34 2172.77 1.42	(min) Purpos Area c	e code:	1 3	
FDEPTH: 99 92 BDEPTH: 99 92	GearCo Validi	nd.code:		
Towing dir: 90ø Wire	out: 400 m S	peed: 30	kn*10	
Sorted: 30 Kg Total ca	atch: 109.6	7 CATCI	H/HOUR:	212.26
SPECIES	CATCH	/HOUR	OF TOT. C	SAMP
Trachurus trecae	weight	numbers	50 07	20.65
Zeus faber	35.54	52	16,74	2205
Dentex macrophthalmus	18.97 9.06	48 70	8.94 4.27	
Merluccius senegalensis Illex coindetii	4.92	10	2.32	
Loligo vulgaris	3.87	31	1.82	
Octopus vulgaris	2.71 2.59	2	1.28	
Brotula barbata Sepia officinalis hierredda	2.40	4	1.13	
Torpedo torpedo	1.08	2	0.64	
Caranx senegallus Alloteuthis africana	0.87	23	0.41	
Total	212.27		100.01	
DATE:11/11/00 GEA start stop durati TIME :15:58:58 16:28:53 30	R TYPE: BT No on (min) Purpose	PRC 12 POSIT e code: 1	NJECT STATI NON:Lat Long	ON:1221 N 1722 W 1638
DATE:11/11/00 GEA start stop durati TIME:15:56:158:16:28:153 30 LOG :2204.84 2206.35 1.51 FDEPTH: 211 205 BDEFTH: 211 205 Towing dir: 2000 Wire	R TYPE: BT No on (min) Purpos Area co GearCon Validit out: 700 m Sp	PRC 2 POSIT code: 1 ode : 3 nd.code: ty code: ty code: coed: 30 k	DJECT STATI TON:Lat Long	ON:1221 N 1722 W 1638
DATE:11/11/00 GEA start stop durati TIME:15158:158 16:128:53 30 LOG :2204.84 2206.35 1.51 FDEFTH: 211 205 BDEPTH: 211 205 Towing dir: 200¢ Wire Sorted: 67 Kg Total ca	R TYPE: BT No on (min) Purpose Area c GearCo Validit out: 700 m Sp tch: 795.64	PRC 12 POSIT e code: 1 ode : 3 nd.code: ty code: ty code: aeed: 30 k CATCH	DJECT STATI TON:Lat Long m*10	ON:1221 N 1722 W 1638 591.28
DATE:11/11/00 GEA start stop durati TIME:15:55:158 16:28:53 30 LOG :2204.84 2206.35 1.51 FDEFTH: 211 205 BDEPTH: 211 205 Towing dir: 2000 Wire Sorted: 67 Kg Total ca SPECIES	R TYPE: BT No on (min) Purpose Area co GearCon Validi out: 700 m Sp tch: 795.64 CATCH/	PRC 12 POSIT e code: 1 de : 3 dd. code: ty code: ty code: peed: 30 k 1 CATCH (HOUR %	DIECT STATI ION:Lat Long n*10 1/HOUR: 1 OF TOT, C	ON:1221 N 1722 W 1638 591.28 SAMP
DATE:11/11/00 GEA start stop durati TIME:15:55:158 16:28:53 30 LOG :2204.84 2206.35 1.51 FDEFTH: 211 205 BDEPTH: 211 205 Towing dir: 2000 Wire Sorted: 67 Kg Total ca SPECIES Chlorophthalmus atlanticus	R TYPE: BT No on (min) Purpose GearCor Validi out: 700 m Sp tch: 795.64 CATCH/ weight 454.40	PRC 12 POSIT e code: 1 ode : 3 d.code: ty code: peed: 30 k 1 CATCH /HOUR % 2662	DJECT STATI TON:Lat Long m*10 I/HOUR: 1 OF TOT. C 28.56	ON:1221 N 1722 W 1638 591.28 SAMP
DATE:11/11/00 GEA BEATE Stop durati TIME:15158158 16:28153 30 LOG :2204.84 2206.35 1.51 FDEFTH: 211 205 BDEPTH: 211 205 Towing dir: 2000 Wire Sorted: 67 Kg Total ca SPECIES Chlorophthalmus atlanticus Merluccius merluccius Synacross microlenia	R TYPE: BT No on (min) Purpose Genercor Validi out: 700 m Sp tch: 795.64 CATCH/ weight 454.40 332.80 210.02	PRC 12 POSIT e code: 1 de : 3 nd.code: ty code: ty	DJECT STATI TON:Lat Long 1/HOUR: 11 OF TOT. C 28.56 20.91	ON:1221 N 1722 W 1638 591.28 SAMP
DATE:11/11/00 GEA BEATE stop durati TIME:15158158 16:28153 30 LOG :2204.64 2206.35 1.51 FDEPTH: 211 205 BDEPTH: 211 205 Towing dir: 200¢ Wire Sorted: 67 Kg Total ca SPECIES Chlorophthalmus atlanticus Merluccius merluccius Synagrops microlepis Scorpaena elongata	R TYPE: BT No on (min) Purpose Genercor Validi out: 700 m Sp tch: 795.64 CATCH/ weight 454.40 332.80 219.20 201.60	PRC 2 POST 2 code: 1 5de : 3 1d.code: 2 y code: 2 code: 2 code: 1 CATCH VHOUR % 1 CATCH VHOUR % 2 662 2 962 3 040	DIECT STATL ION Lat Long (HOUR: 1) OF TOT. C 28.56 20.91 13.78 12.67	ON:1221 N 1722 W 1638 591.28 SAMP
DATE:11/11/00 GEA BEATE stop durati TIME:15158158 16:28153 30 LOG :2204.64 2206.35 1.51 FDEPTH: 211 205 DDEPTH: 211 205 Towing dir: 200e Wire Sorted: 67 Kg Total ca SPECIES Chlorophthalmus atlanticus Merluccius merluccius Synagrops microlepis Scorpaena elongata Trachurus trachurus	R TYPE: BT No on (min) Purpose GenerCor Validi out: 700 m Sp tch: 795.64 CATCH/ weight 454.40 332.80 219.20 201.60 150.92 100.80	PRC 2 POSIT 9 code: 1 1 d.code: 3 1 d.code: 3 2 y code: 30 k 1 CATCH /HOUR % Numbers 2662 2 2662 3 040 2 60 2 60 7 60	DIECT STATI (ION Lat Long m*10 OF TOT. C 28.56 20.91 13.76 12.67 9.48 6.33	ON:1221 N 1722 W 1638 591.28 SAMP 2266
DATE:11/11/00 GEA BEATE stop durati TIME:15158:1528:1528:153 30 LOG :2204.64 2206.35 1.51 FDEPTH: 211 205 Towing dir: 200e Wire Sorted: 67 Kg Total ca SPECIES Chlorophthalmus atlanticus Merluccius merluccius Synagrops microlepis Scorpaena elongata Trachurus trachurus Phelicolenus dactylopterus Pterothrissus belloci Trichiurus lepturus	R TYPE: BT No on (min) Purpose GenerCor Validi out: 700 m Sp tch: 795.64 CATCH/ weight 454.40 332.80 219.20 201.60 150.92 100.80 45.60	PRC 2 POSIT 9 code: 1 1 d.code: 3 1 d.code: 3 1 code: 3 1 code: 3 1 code: 3 1 code: 4 1 code: 4 2 co	NIECT STATI (ION Lat Long m*10 OF TOT. C 28,56 20,91 13,78 12,67 9,48 6,33 3,02 2,87	ON:1221 N 1722 W 1638 591.28 SAMP 2266
DATE:11/11/00 GEA start stop durati TIME:15158:1528:1528:153 30 LOG :2204.84 2206.35 1.51 FDEPTH: 211 205 BDEPTH: 211 205 Towing dir: 200s Wire Sorted: 67 Kg Total ca SPECIES Chlorophthalmus atlanticus Merluccius merluccius Syngrops microlepis Scorpaene elongata Trachurus trachurus Helicolenus dactylopterus Pterothrissus belloci Trichiurus lepturus Parapenaeus longirostris Mycropurnae	R TYPE: BT No on (min) Purpos Area c: GearCo validii out: 700 m Sp tch: 795.64 CATCH/, weight 454.40 332.80 219.20 201.60 150.92 2100.80 45.60 45.60 10.60	PRC 2 POSIT 9 code: 1 1 d.code: 3 1 d.code: 3 1 code: 3 1 code: 4 1 code: 4 1 code: 4 1 code: 4 2 662 2 2662 2 2662 2 2662 2 2662 2 2662 3 040 2 662 2 2662 3 040 2 662 2 200 2 60 3 040 2 60 2 00 3 040 2 05 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0	NIECT STATI (ION Lat Long 1 0 0 0 0 0 0 0 0 0 0 0 0 0	ON:1221 N 1722 W 1638 591.28 SAMP 2266
DATE:11/11/00 GEA BEATE stop durati TIME :15158:158 16:28:153 30 LOG :2204.84 2206.35 1.51 FDEPTH: 211 205 BDEPTH: 211 205 Towing dir: 200s Wire Sorted: 67 Kg Total ca SPECIES Chlorophthalmus atlanticus Merluccius merluccius Syngrops microlepis Scorpaena elongata Trachurus trachurus Helicolenus dactylopterus Peterothrissus belloci Trichirus lepturus Parapenaeus longirostris MYCTOPHIDAE Palinurus gp.	R TYPE: BT No on (min) Purpos Area c: GearCo' validii out: 700 m Sp tch: 795.64 CATCH/, weight 454.40 219.20 201.60 201.60 150.92 2100.80 48.00 45.60 13.60 8.00 4.96	PRC 2 POSIT 9 code: 1 1 d.code: 3 1 d.code: 3 1 code: 3 1 code: 3 1 code: 4 1 code: 4 1 code: 4 1 code: 4 2 co	NIECT STATTI Long 1 	ON:1221 N 1722 W 1638 591.28 SAMP 2266
DATE:11/11/00 GEA BEATE stop durati TIME:15158:158:16:28:153 30 LOG :2204.84 2206.35 1.51 FDEFTH: 211 205 BDEPTH: 211 205 Towing dir: 200s Wire Sorted: 67 Kg Total ca SPECIES Chlorophthalmus atlanticus Merluccius merluccius Syngrops microlepis Scorpaene elongata Trachurus trachurus Pheicolenus dactylopterus Pheicolenus dactylopterus Pterothrissus belloci Trichiurus lepturus Parapenaeus longirostris MYCTOPHIDAE Pallmurus sp. Todaropsis eblanae Zenopsis conchifer	R TYPE: BT No on (min) Purpos Area c: GearCo' Validi out: 700 m Sp tch: 795.64 CATCH/ weight 454.40 219.20 201.60 221.60 221.60 100.80 48.00 45.60 13.60 8.00 4.96 4.08	PRC 2 POSIT 9 code: 1 1 d.code: 3 1 d.code: 3 1 code: 3 1 code: 3 1 code: 4 1 code: 4 1 code: 4 1 code: 4 2 co	NIECT STATTI Long 1 	ON:1221 N 1722 W 1638 591.28 SAMP 2266
DATE:11/11/00 GEA start stop durati TIME:15158:158:16:28:153 30 LOG :2204.84 2206.35 1.51 FDEFTH: 211 205 BDEPTH: 211 205 Towing dir: 200s Wire Sorted: 67 Kg Total ca SPECIES Chlorophthalmus atlanticus Merluccius merluccius Syngrops microlepis Scorpeane elongata Trachurus trachurus Petothrissus belloci Trichirus lepturus Petothrissus belloci Trichirus sp. Todaropsis eblanae Zenopsis conchifer Dentex macrophthalmus	R TYPE: BT No on (min) Purpose Area c: GearCo' Validi out: 700 m Sp tch: 795.64 CATCH/ weight 454.40 219.20 201.60 201.60 201.60 150.92 160.82 150.92 100.80 48.00 45.60 13.60 8.00 4.96 4.00 4.96 4.00 1.12 1.00	PRC 2 POSIT 9 code: 1 1 d.code: 3 1 d.code: 3 1 code: 3 1 code: 3 1 code: 4 1 code: 4 1 code: 4 1 code: 4 2 co	NIECT STATTI Long 1 	ON:1221 N 1722 W 1638 591.28 SAMP 2266
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DATE:11/11/00 GEA BEATE stop durati TIME :15:55:55:55 16:22:55:3 30 LOG :22:04.84 22:06.35 1.51 FDEFUTH: 211 2:05 Towing dir: 20:06 Wire Sorted: 67 Kg Total ca SPECIES Chlorophthalmus atlanticus Merluccius merluccius Synagrops microlepis Scorpaena elongata Trachurus trachurus Helicolenus dactylopterus Pterothrissus belloci Trichiurus lepturus Parapenaeus longirostris MYCTOPHIDAE Pallmurus sp. Todaropsis eblanae Zenopsis conchifer Dentex macrophthalmus Remora remora Illex coindetii Total DATE:11/11/00 GEAN Start stop duratic TIME :19:26:10 19:45:58 20 0 LOG :22:22.75 22:34.33 1.56 FDEFTH: 29 27 Towing dir: 18:06 Wire 5	R TYPE: BT No on (min) Purpose GearCor Validi out: 700 m Sp tch: 795.64 (CATCH, weight 454.40 332.80 201.60 215.02 201.60 45.60 4.96 4.88 4.00 4.96 4.88 4.00 0.40 	PRC 12 POSIT 9 code: 1 13 de : 3 14 code: 1 14 code: 1 14 code: 1 14 code: 1 14 code: 1 15 code: 1 16 code: 1 17 code: 1 16 code: 1 17 code: 1 17 code: 1 17 code: 1 17 code: 1 17 code: 1 18 code: 18 co	USCT STATT TON: Lat Long 1 In*10 OF TOT. C 28.56 20.91 13.78 6.33 10.25 0.65 0.31 0.31 0.31 0.05 100.00 JECT STATIC ION: Lat N Long W	ON:1221 N 1722 W 1638 591.28 SAMP 2266 2266 N:1222 I 1720 I 1720 I 1615
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DATE:11/11/00 GEA Start stop durati TIME :15:55:55:5 16:22:55:3 30 LOG :2204.84 2206.35 1.51 FDEFUR: 211 205 Towing dir: 2000 Wire Sorted: 67 Kg Total ca SPECIES Chlorophthalmus atlanticus Merluccius merluccius Synagrops microlepis Socraena elongata Trachurus trachurus Helicolenus dactylopterus Percotrissus belloci Trichiurus lepturus Parapenaeus longirestris MYCTOPHIDAE Pallmurus sp. Todaropsis eblanae Zenopsis conchifer Dentex macrophthalmus Remora remora Illex coindetii Total DATE:11/11/00 GEA start stop duratis TIME 19:26:10 19:45:58 20 0 LOG :2232:75 2234.33 1.56 FDEFTH: 29 27 Towing dir: 1800 Wire ca Sorted: 75 Kg Total cat Species Sardinella maderensis Trachurus trecae Deceapterus rhonchus Pomadasys incisus Loligo vulgaris Brachydeuterus auritus Juv. Arius heudeloti Pomadasys jubelini Paraplas	R TYPE: BT No on (min) Purpose GearCor Validi out: 700 m Sg tch: 705.64 (CATCH// weight 454.40 219.20 201.60 219.20 210.60 150.92 100.80 45.60 48.00 45.60 1.3.60 8.00 4.0.60 4.0.60 1.3.60 1.3.60 1.3.60 1.3.60 1.3.60 1.3.60 1.3.60 1.3.60 1.3.60 1.3.60 1.22 1.00.80 4.00 4.00 4.00 4.00 4.00 4.00 4.0	PRC 12 POSIT P code: 1 13 code: 1 14 code: 13 14 code: 13 14 code: 13 14 code: 14 14 code: 12 14 code: 14 14 code: 13 14 code: 14 14 code: 14 15 code: 14 15 code: 14 15 code: 14 16 code: 14 17 code: 14 17 code: 14 17 code: 14 18 code: 15 18 code: 14 18 code: 15 18 code: 14 18 code: 15 18 code: 14 18 cod	JJECT STATT TON: Lat Long 1 IN 10 OF TOT. C 28.56 20.91 13.78 6.33 10.25 0.50 0.03 100.00 JECT STATIC CON: Lat N Long W 14.10 VHOUR: 33 OF TOT. C 65.43 25.32 0.72 0.67 0.64 0.61	ON:1221 N 1722 W 1638 591.28 SAMP 2266 2266 N:1222 1720 7 1615 76.80 SAMP 2270 2267 2268
DATE:11/11/00 GEA BEATE stop durati TIME :15:59:59:50 16:28:53 30 LOG :2204.84 2206.35 1.51 FDEFUTH: 211 205 Towing dir: 2000 Wire Sorted: 67 Kg Total ca SPECIES Chlorophthalmus atlanticus Merluccius merluccius Synagrops microlepis Socraena elongata Trachurus trachurus Helicolenus dactylopterus Pterothrisus belloci Trichiurus lepturus Parapenaeus longirostris MYCTOPHIDAE Palinurus sp. Todaropsis eblanae Zenopsis conchifer Dentex macrophthalmus Remora remora Illex coindetii Total DATE:11/11/00 GEAL Start stop duratis Time inj:26:10 19:45:58 20 0 LOG :2222.75 2234.33 1.56 FDEFTH: 13 13 DEEPTH: 29 27 Towing dir: 1800 Wire of Sorted: 75 Kg Total cat Species Sardinella maderensis Trachurus trecae Decapterus rhonchus Pomadasy incisus Loligo vulgaris Frachydeuterus auritus Juv. Arius heudeloti Pomadasy jubelini Pagelus bellotii Chloroscombrus chrysburus	R TYPE: BT No on (min) Purpose Grantow Validi out: 700 m Sy tch: 795.64 (CATCH// weight 454.40 219.20 201.60 219.20 201.60 219.20 201.60 150.92 100.80 4.80 4.80 4.80 4.96 4.86 4.96 4.96 4.96 4.96 4.96 4.96 4.96 4.9	PRC 12 POSIT P code: 1 13 code: 1 14 code: 13 14 code: 13 14 code: 13 14 code: 13 14 code: 2662 14 code: 2662 14 code: 2662 14 code: 2662 14 code: 2662 14 code: 13 16 code: 1 16 code: 1 17 code: 1 17 code: 1 16 code: 1 17 code: 1 17 code: 1 16 code: 1 17 code:	JECT STATT TON: Lat Long 1 IN 10 OF TOT. C 28.56 20.91 13.78 6.33 3.087 0.85 0.55 0.65 0.03 100.00 JECT STATIC CONILAT N Long W 100 100.00 OF TOT. C 65.43 25.32 3.67 0.64 0.61 0.61 0.61 0.61 0.61 0.61	ON:1221 N 1722 W 1638 591.28 SAMP 2266 2266 N:1222 T 1720 7 1615 76.80 SAMP 2270 2267 2268
DATE:11/11/00 GEA BEATE stop durati TIME :15:55:15:25:30 LOG :2204.84 2206.35 1.51 FDEFPTH: 211 205 Towing dir: 2000 Wire Sorted: 67 Kg Total ca SPECIES Chlorophthalmus atlanticus Merluccius merluccius Synagrops microlepis Scorpaena elongata Trachurus trachurus Helicolenus dactylopterus Pterothrissus belloci Trichiurus lepturus Parapenaeus longirestris WYCTOPHIDAE Palinurus sp. Todaropsis eblanae Zenopsis conchifer Dentex macrophthalmus Remora remora Illex coindetii Total DATE:11/11/00 GEAN Start stop duratio TIME:19:26:10 19:45:58:20 9 LOG :2232.75 2234.33 1.56 FDEFTH: 13 13 BDEFTH: 29 27 Towing dir: 1800 Wire of Sorted: 75 Kg Total cat Species Sardinella maderensis Trachurus tracae pecapterus rhonchus Pomadasys jubelini Pagellus bellotii Pagellus bellotii Pagellus bellotii Pagellus bellotii	R TYPE: BT No on (min) Purpose Area c GearCor Validi t. (validi validi validi veight 454.40 332.80 201.60 219.20 201.60 219.20 201.60 45.60 4.80 4.80 4.96 4.80 4.96 4.80 4.96 4.96 4.96 4.00 0.40 1591.28 3 TYPE: PT No: of GearCon Validi vult: 170 m Sp icch: 1125.60 CATCH// weight 122.05 855.00 22.50 21.60 22.50 21.60 22.50 21.60 22.50 21.60 22.50 21.60 20.70	PRC 12 POSIT P code: 1 13 code: 3 14 code: 3 14 code: 3 14 code: 3 14 code: 3 14 code: 3 2662 2962 2962 2962 2962 2962 2962 2962 2962 2962 2962 200 200 200 200 200 200 200 2	JECT STATT TON: Lat Long 1 (NOUR: 1: OF TOT. C 28.56 20.91 13.78 12.67 9.48 6.33 10.25 0.63 0.03 100.00 JECT STATIC Long W 100.101 100.101 JECT STATIC 0.61 0.65 0.40 0.65 0.40 0.65 0.65 0.65 0.61 0.61 0.61 0.61 0.65 0.65 0.65 0.61 0.61 0.61 0.65 0.65 0.65 0.62 0.6	CN:1221 N 1722 W 1638 S591.28 SAMP 2266 2266 N:1222 1720 7 1615 76.80 SAMP 2270 2267 2268
DATE:11/11/00 GEA BEATE stop durati TIME :15:59:59:50 16:28:53 30 LOG :2204.84 2206.35 1.51 FDEFPTH: 211 205 Towing dir: 2000 Wire Sorted: 67 Kg Total ca SPECIES Chlorophthalmus atlanticus Merluccius merluccius Synagrops microlepis Socrpaena elongata Trachurus trachurus Helicolenus dactylopterus Pterothrissus belloci Trichiurus lepturus Parapenaeus longirestris MYCTOPHIDAE Palinurus sp. Todaropsis eblanae Zenopsis conchifer Dentex macrophthalmus Remora remora Illex coindetii Total DATE:11/11/00 GEAN Start stop duratic TIME 19:26:10 19:45:58 20 9 LOG :2232.75 2234.33 1.56 FDEPTH: 13 13 DDEPTH: 29 27 Towing dir: 1800 Wire of Sorted: 75 Kg Total cat Species Sardinella maderensis Trachurus tracas Pomadasys jucisus Loligo vulgaris Paradydeuerus auritus Juv. Arius heudeloti Pomadasys jucisus Loligo vulgaris Paradydeuerus auritus Juv. Arius heudeloti Pagellus bellottii Thionirus lepturus Sardinella aurita Pagellus bellottii Trichiurus lepturus	R TYPE: BT No on (min) Purpose Area c GearCor Validi t. (validi validi validi veight 454.40 332.80 45.60 45.60 4.96 4.80 4.96 4.80 4.96 4.80 4.96 4.00 1.12 1.00.80 0.40 1.591.28 3.00 0.40 1.591.28 3.00 0.40 1.591.28 3.00 0.40 1.591.28 3.00 0.40 0.40 1.591.28 3.00 0.40 0.40 1.591.28 3.00 0.40 0.40 1.591.28 3.00 0.40 0.40 1.591.28 3.00 0.40 0.40 0.40 1.591.28 3.00 0.40 0.40 0.40 0.40 0.40 0.40 0.40	PRC 12 POSIT P code: 1 13 code: 1 14 code: 1 14 code: 1 14 code: 1 14 code: 1 14 code: 1 2662 4562 2962 2962 2962 2962 2962 200 200 200 200 200 200 200 2	JECT STATI ION: Lat Long f ION: Lat Long f ION: Lat Long f ION: Lat 28.56 20.91 13.78 12.67 9.48 6.33 3.02 2.87 0.85 0.31 0.03 100.00 JECT STATIC ION: Lat N Long W 100, ION: Lat N Long W 100, ION: Lat S 100, ION 100, ION 100, ION 100, ION 100, ION 100, ION 100, ION 100, ION ION: Lat S 100, ION ION: ION ION: ION ION ION: ION ION ION ION ION ION ION ION	ON:1221 N 1722 W 1638 591.28 SAMP 2266 2266 N:1222 1720 7 1615 76.80 SAMP 2270 2267 2268 2269
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DATE:12/11/00	GEAR TYPE: PT 1	No:4 POS	PROJECT STAT	N 1740
start stop du TIME :03:03:24 03:33:02	aration	ano ando.	Long	W 1626
LOG :2307.83 2309.72 1	.88 Area	code :	3	
FDEPTH: 10 10 BDEPTH: 103 100	Gear	Cond.code:		
Towing dir: 90¢ W	lire out: 160 m	Speed: 40	kn*10	
Sorted: 14 Kg Tota	l catch: 14	.20 CA1	CH/HOUR	28.40
		an chi	CHI HOURI	20.40
SPECIES	CATC	H/HOUR	& OF TOT.	C SAME
man also and a second	weight	numbers		e onn
Illex coindetii	7.20		25.35	2271
Trachinotus ovatus	4.80) 14	16.90	
Auxis thazard	4.64	2	16.34	
Sarda sarda	2.56	2	9.01	
Argentina sphyraena	0.52	318	1.83	
Total	28.40	5	99.99	
DATE:12/11/00	GEAR TYPE: PT N	P Io:7 POS	ROJECT STAT ITION:Lat	ION:1224 N 1740
start stop du	ration		Long	W 1612
LOG :2321.34 2322.99 1	30 (min) Purpo .64 Area	code :	1 3	
FDEPTH: 5 5	GearC	ond.code:	-	
Towing dir: 90ø W	Valid ire out: 160 m	Speed: 30	kn*10	
Ported, 36 Va mater	harden av			
sorted: 36 Kg Tota.	I catch: 35.	73 CAT	CH/HOUR:	71.46
SPECIES	CATC	H/HOUR	8 OF TOT.	C SAMP
Sardinella aurita	weight 48.00	numbers	67 17	2074
Sardinella maderensis	7.72	24	10.80	2274
Trachurus trachurus	4.60	8	6.44	
Alectis alexandrinus	3.60	110	5.04	2272
Trichiurus lepturus	1.40	10	1.96	
Sphyraena barracuda	0.96	2 2	1.34	
Brachydeuterus auritus	0.72	6	1.01	
Loligo vulgaris Selene dorsalis	0.60	4	0.84	
Todaropsis eblanae	0.34	2	0.48	
Priacanthus arenatus	0.08	2	0.11	
Total	71.46		100.01	
DATE:12/11/00 start stop dur	GEAR TYPE: PT Ne	PI D:7 POSI	ROJECT STATI	ON:1225 N 1750 W 1608
DATE:12/11/00 start stop dur TIME :07:00:50 07:07:54 LOG :2336.82 2337.18 0. FDEPTH: 5 5	GEAR TYPE: PT No ation 7 (min) Purpor 34 Area Gearce	Pi p:7 POS se code: code : ond.code:	ROJECT STATJ ITION:Lat Long 1 3	CON:1225 N 1750 W 1608
DATE:12/11/00 start stop dur TIME :07:00:50 07:07:54 LCG :2336.82 2337.18 0. FDEFTH: 5 2337.18 2 BDEFTH: 21 23 Towing dir: 270e Wi	GEAR TYPE: PT No ation 7 (min) Purpo 34 Area GearC Valid: re out: 150 m 4	Pf p:7 POSJ se code: code : ond.code: ity code: Speed: 30	ROJECT STATJ ITION:Lat Long 1 3 kn*10	ON:1225 N 1750 W 1608
DATE:12/11/00 start stop dur TIME :07:00:50 07:07:54 LOG :2336.82 2337.18 0. FDEPTH: 21 23 Towing dir: 2700 Wi Sorted: 32 Kg Total	GEAR TYPE: PT No ration 7 (min) Purpo 34 Area (GearC Valid; re out: 150 m f catch: 164.2	pp o:7 POSJ se code: code : ond.code: ity code: Speed: 30 28 CATC	ROJECT STATJ TION:Lat Long 1 3 kn*10	CON: 1225 N 1750 W 1608
DATE:12/11/00 start stop dur TIME :07:00:50 07:07:54 LOG :2336.82 2337.18 0. FDEPTH: 52 2337.18 0. FDEPTH: 21 23 Towing dir: 2700 Wi Sorted: 32 Kg Total	GEAR TYPE: PT No ation 7 (min) Purpor 34 Area c Gearc Valid: re out: 150 m f catch: 164.2	PI D:7 POSJ se code: code : ond.code: ity code: Speed: 30 28 CATC	ROJECT STATJ TTION:Lat Long 1 3 kn*10 CH/HOUR: 1	CON:1225 N 1750 W 1608 408.11
DATE:12/11/00 start stop dur TIME :07:00:50 07:07:54 LOG :2336.82 2337.18 0. FDEPTH: 21 23 Towing dir: 2700 Wi Sorted: 32 Kg Total	GEAR TYPE: PT No ation 34 Area c Gearc Valid: re out: 150 m f catch: 164.2 CATCH	pp se code: code : code : code : speed: 30 28 CATC 1/HOUR	ROJECT STATJ TTION:Lat Long 1 3 kn*10 CH/HOUR: 1	CON:1225 N 1750 W 1608 408.11 SAMP
DATE:12/11/00 start stop dur THE 107:00:50 07:07:54 LCG :2336:82 2337.18 0. FDEPTH: 5 5 BOEPTH: 21 23 Towing dir: 270ø Wi Sorted: 32 Kg Total SPECIES Chloroscombrus chrysurus	GEAR TYPE: PT No ration 34 Area c GearC Valid: re out: 150 m f catch: 164.2 CATC: weight	pi7 POS3 se code: code i code code: ity code: speed: 30 28 CATC 1/HOUR numbers 7114	ROJECT STATJ ITION:Lat Long 1 3 kn*10 SH/HOUR: 1 % OF TOT, C	CON:1225 N 1750 W 1608 408.11 SAMP
DATE:12/11/00 start stop dur TIME :07:00:50 07:07:54 LOG :2336.82 2337.18 0. FDEPTH: 5 5 BEPTH: 21 23 Towing dir: 270s Wi Sorted: 32 Kg Total SPECIES Chloroscombrus chrysurus Sardinella maderensis	GEAR TYPE: PT No ration 7 (min) Purpor 34 Area c Gearc Valid: re out: 150 m : catch: 164.2 CATC; weight 1033.71 293.14	pr p:7 POSJ se code: code: ity code: speed: 30 28 CATC 1/HOUR numbers 7114 986	ROJECT STATJ TTION:Lat Long 1 3 kn*10 SH/HOUR: 1 % OF TOT. C 73.41 20.82	CON:1225 N 1750 W 1608 408.11 SAMP 2275
DATE:12/11/00 start stop dur TIME :07:00:50 07:07:54 LOG :2336.82 2337.18 0, FDEPTH: 5 5 BDEPTH: 21 23 Towing dir: 270e Wi Sorted: 32 Kg Total SPECIES Chloroscombrus chrysurus Sardinella maderensis Sardinella eurita	GEAR TYPE: PT N ration 7 (min) Purpoo GearC Validi re out: 150 m i catch: 164.2 CATCI weight 1033.71 293.14 57.43	pi pi7 POS) ase code: code : code : code : ity code: speed: 30 28 CATC //HOUR numbers 7114 986 171	ROJECT STATJ TION:Lat Long 1 3 kn*10 H/HOUR: 1 % OF TOT. C 73.41 20.82 4.08	CON:1225 N 1750 W 1608 408.11 SAMP 2275 2276
DATE:12/11/00 start stop dur TIME :07:00:50 07:07:54 LOG :2336.82 2337.18 0. FDEPTH: 5 5 BDEPTH: 21 23 Towing dir: 270e Wi Sorted: 32 Kg Total SPECIES Chloroscombrus chrysurus Sardinella maderensis Sardinella aurita Pomatomus maltarix	GEAR TYPE: PT No ration 7 (min) Purpor 34 Area c Gearcy Valid re out: 150 m f catch: 164.2 CATCy weight 1033.71 293.14 57.43 8.57 6.34	p) por7 POS3 ase code: code : iond.code: ity code: speed: 30 28 CATC 1/HOUR 7114 986 1711 9 9	ROJECT STATJ TTION:Lat Long 1 3 kn*10 % OF TOT. C 73.41 20.82 4.08 0.61 0.45	CON:1225 N 1750 W 1608 408.11 SAMP 2275 2276
DATE:12/11/00 start stop dur TIME :07:00:50 07:07:54 LOG :2336.82 2337.18 0. FOEPTH: 21 23 Towing dir: 270e Wi Sorted: 32 Kg Total SPECIES Chloroscombrus chrysurus Sardinella maderensis Sardinella aurita Pomatomus maltatrix Brachydeuterus auritus	GEAR TYPE: PT No ration 34 Area c Gearcy Validi re out: 150 m f catch: 164.7 CATCH weight 1033.71 293.14 57.43 8.57 6.34 3.94	p) por7 POSJ se code: code : code : ty code: ty code: ty code: speed: 30 28 CATC 1/HOUR 7114 986 1711 99 9 43	ROJECT STATJ TTION:Lat Long 1 3 kn*10 CH/HOUR: 1 % OF TOT. C 73.41 20.82 4.06 0.61 0.45 0.28	CON:1225 N 1750 W 1608 408.11 SAMP 2275 2276
DATE:12/11/00 start stop dur THE 07:00:50 07:07:54 LOG :2336.82 2337.18 0. FDEPTH: 5 5 BDEPTH: 21 23 Towing dir: 270e Wi Sorted: 32 Kg Total SPECIES Chloroscombrus chrysurus Sardinella maderensis Sardinella aurita Fomadasys rogeri Pomatorus altarrix Brachydeutorus auritus Trichiurus lepturus Decapterus honchus	GEAR TYPE: PT No ration 34 Area c GearC Valid: re out: 150 m f catch: 164.2 CATC weight 1033.71 293.14 57.43 8.57 6.34 3.94 2.91	pp:7 POSD se code: code : ond.code; lty code; Speed: 30 28 CATC 1/HOUR numbers 7114 986 171 9 9 43 3 17 °	ROJECT STATJ TTION:Lat Long 1 3 kn*10 SH/HOUR: 1 % OF TOT. C 73.41 20.82 4.08 0.61 0.45 0.28 0.28	CON:1225 N 1750 W 1608 408.11 SAMP 2275 2276
DATE:12/11/00 start stop dur TIME :07:00:50 07:07:54 LOG :2336.82 2337.18 0. FDEPTH: 5 5 BDEPTH: 21 23 Towing dir: 270s Wi Sorted: 32 Kg Total SPECIES Chloroscombrus chrysurus Sardinella maderensis Sardinella aurita Pomadasys rogeri Pomatomus maltatrix Brachyduerus auritus Trichiurus lepturus Decapterus rhonchus Sepia elegans	GEAR TYPE: PT No ration 7 (min) Purpor 34 Area c GearC Valid: re out: 150 m f catch: 164.2 CATC weight 1033.71 293.14 57.43 8.57 6.34 3.94 2.91 1.03	pj pp:7 Pos: se code: code : ond.code: ity code: ity code: speed: 30 28 CATC 1/HOUR numbers 7114 986 171 9 9 433 17 9 9	COJECT STATJ TTION:Lat Long 1 3 kn*10 CH/HOUR: 1 % OF TOT. C 73.41 20.82 4.08 0.61 0.45 0.28 0.21 0.07 0.04	CON:1225 N 1750 W 1608 408.11 SAMP 2275 2276
DATE:12/11/00 start stop dur TIME :07:00:50 07:07:54 LOG :2336.82 2337.18 0, FDEPTH: 5 5 BDEPTH: 21 23 Towing dir: 2700 Wi Sorted: 32 Kg Total SPECIES Chloroscombrus chrysurus Sardinella maderensis Sardinella maderensis Sardinella maderensis Sardinella maderensis Sardinella maderensis Sardinella maderensis Sardinella maderensis Sardinella maderensis Sardinella uurita Pomadauys rogeri Pomatomus saltatrix Brachydeuterus auritus Trichiurus lepturus Decapterus rhonchus Sepia elegans Frachurus trecae	GEAR TYPE: PT N ration 7 (min) Purpo 34 Area c GearC Valid re out: 150 m : catch: 164.2 CATC weight 1033.71 293.14 57.43 8.57 6.34 3.94 2.91 1.03 0.51	pp:7 POSD se code: code : nod.code: ity code: speed: 30 28 CATC 7114 986 1711 9 9 43 17 7 9 9 9 9 9 9 9 9 9 9 9 9	ROJECT STATJ TTION:Lat Long 1 3 kn*10 CH/HOUR: 1 % OF TOT. C 73.41 20.82 4.08 0.61 0.45 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28	CON:1225 N 1750 W 1608 408.11 SAMP 2275 2276
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DATE:12/11/00 start stop dur TIME :07:00:50 07:07:54 LOG :2336.82 2337.18 0.0 FDEPTH: 5 5 BDEPTH: 21 23 Towing dir: 270s Wi Sorted: 32 Kg Total Sorted: 32 Kg Total Secondary of the second start Sardinella maderensis Sardinella maderensis Sardinella maderensis Sardinella maderensis Sardinella maderensis Sardinella maderensis Sardinella maderensis Sardinella materix Promadasys rogeri Pomadasys rogeri Pomadasys rogeri Pomatorys regeri Pomatorys regeri Pomatorys regeri Pomatorys regeri Sortal DATE:12/11/00 cm start stop dur TIME :08:50:06 09:22:09 3: LOG :2352.54 251.7 PDEPTH: 98 95 DOEPTH: 98 95 Towing dir: 90s Win Sorted: 60 Kg Total PPECIES Trachurus trecae iesus faber Illex coindetii Boops boops Sentox macrophthalmus QULOO1	GEAR TYPE: PT No ration 7 (min) Purpor 34 Area c Gearcy Validi re out: 150 m f catch: 164.2 CATCI Vaight 1033.71 293.14 57.43 8.57 6.34 3.94 2.91 1.03 0.51 1408.09 CEAR TYPE: BT No ation 2 (min) Purpos 71 Area c Gearco Validi re out: 150 m f catch: 205.4 CATCH weight 267.09 44.36 30.19 15.09 10.50	PR pi7 POSD se code: code : code : ity code: speed: 30 28 CATC 1/HOUR numbers 7114 986 1711 99 9 9 9 9 9 9 9 9 9 9 9 9	ROJECT STATJ TTION: Lat Long 1 3 kn*10 % OF TOT. C 73.41 20.82 4.0F TOT. C 73.41 20.82 0.21 0.45 0.26 0.21 0.07 0.04 0.04 0.04 0.04 0.07 0.04 0.04 100.01 COJECT STATJI TION: Lat 1 3 kn*10 H/HOUR: 3 4.0F TOT. C 69.34 1.52 7.84 3.92 2.73 1.60 0.85	CON:1225 N 1750 W 1608 408.11 SAMP 2275 2276 N 1750 W 1623 385.20 SAMP 2277
DATE:12/11/00 start stop dur TIME n07100;50 07107;54 LCO :2336.82 2337.18 0. PDEPTH: 5 5 BDEPTH: 21 23 Towing dir: 2700 Wi Sorted: 32 Kg Total SPECIES Chloroscombrus chrysurus Sardinella maderensis Sardinella matrix Pomadasys rogeri Pomadasys rogeri Pomadasys rogeri Sardinella matrix Pomadasys rogeri Pomadasys rogeri Sardinella matrix Pomadasys rogeri Pomadasys rogeri Pomadasys rogeri Sardinella matrix Sardinella matrix Sa	GEAR TYPE: PT No ration 7 (min) Purpor 34 Area c Gearce Validi re out: 150 m f catch: 164.2 CATC; weight 1033.71 293.14 57.43 8.57 6.34 3.94 2.91 1.03 0.51 1408.09 CEAR TYPE: BT No ation 2 (min) Purpos 71 Area c Gearco Validi 2 (min) Purpos 71 Area c CATCH veight 267.09 44.36 30.19 15.09 10.50	PR pir7 POSD se code: code : code : ppeed: 30 28 CATC 1/HOUR numbers 7114 986 171 9 9 4 30 4 29 9 9 43 177 14 Code: code:	ROJECT STATJ TTION: Lat Long 1 3 kn*10 SH/HOUR: 1 SOF TOT. C 73.41 20.82 4.0F TOT. C 73.41 20.82 4.0F TOT. C 73.41 20.82 4.0F TOT. C 73.41 20.82 4.0F TOT. C 69.34 11.52 7.84 3.0F TOT. C 69.34 11.52 7.84 3.92 2.73 1.60 0.65 0.85	CON:1225 N 1750 W 1608 408.11 SAMP 2275 2276 N 1750 W 1623 385.20 SAMP 2277
DATE:12/11/00 start stop dur TIME n07100;50 07107;54 LOO :2336.82 2337.18 0. PDEPTN: 5 5 BDEPTN: 21 23 Towing dir: 2700 Wi Sorted: 32 Kg Total SPECIES Chloroscombrus chrysurus Sardinella aurita Pomadasys rogeri Pomatomus saltatrix Brachydeuterus auritus Trichiurus lepturus Decapterus honchus Sepia elegans Trachurus trecae Fotal DATE:12/11/00 start stop dur TIME :08:50:06 09:22:09 3; LOO :2352.54 2354.25 1. PDEPTH: 98 95 Towing dir: 900 Win Sorted: 60 Kg Total SPECIES Tachurus trecae Fusta faber Tiexchurus trecae Sentas faber Tiexchurus trecae Sentas faber Tiexchurus trecae Sentas faber Tiexcoindetii toped torpedo sentas macrophthalmus QULO01 agelluw bellottii opredo torpedo	GEAR TYPE: PT No ation 7 (min) Purpor 34 Area c GearC Valid catch: 164.3 catch: 164.3 catch: 164.3 catch: 164.3 cATCH weight 1033.71 293.14 57.43 8.57 6.34 3.94 2.91 1.03 0.51 1408.09 GEAR TYPE: BT No ation 2 (min) Purpos 71 Area c GearCc Validi re out: 350 m S catch: 205.4 CATCH weight 267.09 44.36 30.19 15.09 10.50 6.17 3.28 catch: 2.25 1.80	pp:7 POSD se code: code : code : ond.code: Speed: 30 28 CATC 4/HOUR numbers 7114 986 171 9 9 9 43 17 9 9 9 43 17 9 9 9 43 17 9 9 9 43 17 9 9 9 43 17 9 9 9 43 17 9 9 9 43 17 9 9 9 43 17 9 9 9 43 17 9 9 9 43 17 9 9 9 43 17 9 9 9 43 17 9 9 9 43 17 9 9 9 43 17 19 9 9 43 17 19 9 9 43 17 19 9 9 43 17 9 9 9 9 43 17 9 9 9 9 43 17 9 9 9 43 17 9 9 9 9 43 17 9 9 9 9 43 17 9 9 9 9 9 9 9 9 43 17 9 9 9 9 9 43 17 9 9 9 9 9 43 17 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	COJECT STATJ TTION: Lat Long 1 Ser/HOUR: 1 Ser/HOUR: 1 Ser/HOUR: 1 Ser/HOUR: 1 Ser/HOUR: 1 Ser/HOUR: 1 COJECT STATJ Long 1 1 COJECT STATJ Long 1 1 COJECT STATJ COJECT	CON:1225 N 1750 W 1608 408.11 SAMP 2275 2276 N 1750 W 1623 385.20 SAMP 2277
DATE:12/11/00 start stop dur THE 07:00:50 07:07:54 LOG :2336.82 2337.18 0. PDEPTH: 5 5 BDEPTH: 21 23 Towing dir: 270s Wi Sorted: 32 Kg Total SPECIES Chloroscombrus chrysurus Sardinella maderensis Sardinella maderensis Sardinella aurita Pomadasys rogeri Pomatomus saltartik Brachydeuterus auritus Trichiurus lepturus Decapterus ichonchus Sepia elegans Trachurus trecae Total DATE:12/11/00 C start stop dur TIME :06:50:06 09:12:00 3: LOG :2352.54 2354.25 1: PDEPTH: 98 95 DOETH: 98 95 Towing dir: 90s Wi Sorted: 60 Kg Total PECIES Trachurus trecae ious faber illex coindetii loops boops Fentex macrophthalmus Soulool sellue bellottii toopsed torpedo serluccius senegalensis filoroscombus chryunus	GEAR TYPE: PT N ration 7 (min) Purpoo GearC Validi re out: 150 m : catch: 164.2 CATCH weight 1033.71 293.14 57.43 8.57 6.34 3.94 2.91 1.03 0.51 1008 2 (min) Purpos 71 Area c GearCo Validi re out: 350 m S catch: 205.4 CATCH weight 267.09 44.36 30.19 15.09 10.50 6.17 3.28 2.25 1.80 1.44	pp:7 POSD se code: code : code : ity code: fity code: pred: 30 28 CATC 7114 986 1711 99 43 177 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	COJECT STATJ TTION: Lat Long 1 SH/HOUR: 1 % OF TOT. C 73.41 20.82 4.08 0.61 0.45 0.28 0.21 0.07 0.04 100.01 COJECT STATJI COJECT STATJI COJECT STATJI SH/HOUR: 2 1 SH/HOUR: 2 SH/HOUR: 2 SH/HO	CON:1225 N 1750 W 1608 408.11 SAMP 2275 2276 2276 N 1750 W 1623 385.20 SAMP 2277
DATE:12/11/00 start stop dur TIME :07:00:50 07:07:54 LCO :2336.82 2337.18 0. FDEPTH: 5 5 BDEPTH: 21 23 Towing dir: 270s Wi Sorted: 32 Kg Total SPECIES Chloroscombrus chrysurus Sardinella maderensis Sardinella maderensis Sardinella aurita Pomadasys rogeri Pomatomus maltatrix Erachydueterus auritus Trichiurus lepturus Decapterus rhonchus Sepia elegans Trachurus trecae Total DATE:12/11/00 (start stop dura TIME :08:0106 09:22:09 3: LCO :252.54 254.25 1.7 PDEPTH: 98 95 BDEPTH: 98 95 Towing dir: 90s Win Sorted: 60 Kg Total SPECIES Prachurus trecae Sentes macrophtalmus NULOO 'agellus bellottii 'orpedo torpedo terluccius senegalensis hioroscombrus chrysurus 'hors marcophtalmus '	GEAR TYPE: PT N ration 7 (min) Purpor 34 Area c GearC Valid re out: 150 m i catch: 164.2 CATCH weight 1033.71 293.14 57.43 8.57 6.34 3.94 2.91 1.03 0.51 0.51 14008.09 DEAR TYPE: BT No ation 2 (min) Purpos 71 Area c GearCo Validi re out: 350 m f catch: 205.4 CATCH weight 267.09 15.00 15.0	PR pi7 POSD se code: code : code : ity code: Speed: 30 28 CATC 1/HOR numbers 7114 9 9 43 177 9 9 9 9 9 9 9 9 9 9 9 9 9	ROJECT STATJ TTION:Lat Long 1 3 kn*10 % OF TOT. C 73.41 20.82 4.07 TOT. C 73.41 20.82 4.07 TOT. C 73.41 20.82 4.07 0.04 0.04 0.04 1.007 0.04 0.04 1.007 0.04 0.04 1.007 0.04 0.04 1.007 0.04 0.04 1.007 0.04 0.04 1.007 0.04 0.04 1.007 0.04 0.04 1.007 0.04 0.04 0.04 1.007 0.04 0.04 0.04 1.007 0.04 0.04 0.04 1.007 0.04 0.04 0.04 0.04 1.007 0.04 0.04 0.04 1.007 0.04 0.05 0.58 0.47 0.37 0.24 0.10 0.10	CON:1225 N 1750 W 1608 408.11 SAMP 2275 2276 2276 N 1750 W 1623 385.20 SAMP 2277
DATE:12/11/00 start stop dur THE 07100:50 07107:54 LOG :2336.62 2337.18 0. FDEFTH: 5 5 BDEFTH: 21 23 Towing dir: 2700 Wi Sorted: 32 Kg Total SPECIES Chloroscombrus chrysurus Sardinella maderenais Sardinella durita Pomadasys rogeri Pomatomus saltatrix Brachyduetsus auritus Trichiurus lepturus Decapterus rhonchus Sepia elegans Trachurus trecae Total DATE:12/11/00 (start stop dur TIME 108:50:06 09:22:09 33 LOG :2352.54 2354.25 1. ⁷ FDEFTH: 98 95 Towing dir: 900 Win Sorted: 60 Kg Total SPECIES Frachurus trecae Seus faber Tisk condetii Boops boops Sontex marcophthalmus KULOO1 Sortex torpedo forluccius senegalensis Thichiurus lepturus Fortex marcophthalmus forlood torpedo forluccius senegalensis Thichwas lepturus Fortex marcophtalmus forlood torpedo forluccius senegalensis Thichwas lepturus Fortex marcophtalmus forlood torpedo forluccius senegalensis Thichest macrophtalmus forlood torpedo forluccius senegalensis Thichest metrocenus Maris macrophtalmus forlood torpedo forluccius senegalensis Thichest metrocenus Maris macrophtalmus forlood torpedo forluccius senegalensis Thichest metrocenus Maris macrophtalmus forlood torpedo forluccius senegalensis	GEAR TYPE: PT N ration 7 (min) Purpor 34 Area c Gearc Valid re out: 150 m f catch: 164.2 CATCH 1033.71 293.14 57.43 8.57 6.34 3.94 2.91 1.03 0.51 1408.09 CEAR TYPE: BT No ation 2 (min) Purpos 71 Area c Gearc Valid re out: 350 m S catch: 205.4 CATCH weight 267.09 44.36 3.019 15.09 10.50 6.17 3.28 2.25 1.80 1.44 0.22 0.39	PR pir7 POSD se code: code : code : ity code: Speed: 30 28 CATC 1/HOUR numbers 986 1711 99 9 43 177 9 9 9 43 177 9 9 9 43 177 9 9 9 43 177 9 9 9 43 177 9 9 9 43 177 9 9 9 43 177 14 CATC 14 CODE: 15 16 17 11 17 14 17 11 17 14 17 11 17 14 17 11 17 14 17 17 14 17 17 14 17 17 14 17 17 17 17 17 17 17 17 17 17	ROJECT STATJ TTION: Lat Long 1 3 kn*10 % OF TOT. C 73.41 20.82 0.61 0.45 0.28 0.61 0.45 0.28 0.21 0.04 0.04 0.04 100.01 COJECT STATJ TION: Lat Long 1 3 kn*10 H/HOUR: 1 4 0F TOT. C 69.34 11.52 7.84 3.92 2.7.3 1.60 0.85 0.37 0.37 0.37 0.24 0.07 0.37 0.37 0.37 0.24 0.07 0.37 0.37 0.24 0.07 0.37 0.37 0.24 0.05 0.58 0.47 0.37 0.37 0.37 0.24 0.58 0.47 0.58 0.47 0.37 0.37 0.24 0.58 0.47 0.37 0.37 0.24 0.58 0.47 0.58 0.47 0.37 0.37 0.24 0.07 0.37 0.37 0.24 0.58 0.58 0.47 0.58 0.47 0.58 0.47 0.58 0.47 0.58 0.47 0.58 0.47 0.58 0.47 0.58 0.47 0.58 0.58 0.47 0.58 0.47 0.58 0.47 0.58 0.47 0.58 0.47 0.58 0.58 0.58 0.58 0.47 0.58 0.57 0.37 0.37 0.37 0.24 0.10 0.07 0 0.58 0.	CON:1225 N 1750 W 1608 408.11 SAMP 2275 2276 N 1750 W 1623 385.20 SAMP 2277

		nn	TROP OF	
DATE:12/11/00 GE	AR TYPE: BT No:	2 POSI	JECT STAT	N 1801
TIME :15:04:41 15:34:02 29	ion (min) Purpose	code	Long	W 1623
LOG :2401.48 2402.95 1.37	Area co	de i i	3	
BDEPTH: 88 85	GearCon Validit	d.code:		
Towing dir: 150ø Wire	out: 320 m Sp	eed: 30)	m*10	
Sorted: 30 Kg Total ca	atch: 547.28	CATCH	/HOUR	1132.30
		enter	I HOOKI	1132.30
SPECIES	CATCH/	HOUR 9	OF TOT.	C SAMP
Dentey macrophthalmus	weight	numbers		
Trachurus trecae	191.96	4407	59.97	2278
Spondyliosoma cantharus Boons boons	58.97	62	5.21	
Umbrina canariensis	49.66	1552	4.55	
Plectorhinchus mediterraneus Scorpaena sp	41.59	31	3.67	
Parapristipoma octolineatum	18.62	31	1.92	
Trachurus trachurus Pagellus bellottii	9.93	62	0.88	
matal .		31	0.82	
local	1132.31		100.00	
		PRO	JECT STATI	ON:1228
DATE:12/11/00 GEA	R TYPE: PT No:7	POSIT	ION:Lat	N 1804
TIME :18:13:40 18:42:35 29	(min) Purpose	code: 1	Long	w 1607
LOG :2423.92 2425.30 1.39 FDEPTH: 5 5	Area cod	le i 3		
BDEPTH: 17 17	Validity	code:		
Towing dir: 340ø Wire	out: 150 m Spe	ed: 30 ki	n*10	
Sorted: 31 Kg Total ca	tch: 30.72	CATCH	HOUR 1	63.56
SPECIES	CATCH/H	OUR 8	OF TOT. C	SAMP
Trichiurus lepturus	47.59	umbers 101	74.87	
Lagocephalus laevigatus Pomadasys jubelini	5.09	8	8.01	
Chloroscombrus chrysurus	3.93	4	6.18	
Decapterus rhonchus Trachurus trecae	1.16	6	1.83	
Loligo vulgaris	0.99	2	1.56	
sphyraena sphyraena	0.17	2	0.27	
Total				
DATE:12/11/00 GEAR	63.56	PROJ	100.00 ECT STATI	ON:1229
DATE:12/11/00 GEAR start stop duratic TIME : 20:10:17 20:41:11 31	63.56 R TYPE: PT No:6	PROJ POSITI	100.00 ECT STATIC	DN:1229 N 1809 ∛ 1614
DATE:12/11/00 GEAR start stop duratic TIME :20:10:17 20:41:11 31 LOG :2437.38 2439.26 1.88 FREPRI:	63.56 R TYPE: PT No:6 min) Purpose of Area code	PROJ POSITI code: 1 ; 3	100.00 ECT STATION:Lat 1 Long 1	DN:1229 N 1809 N 1614
DATE:12/11/00 GEAR start stop duratic TIME :20:10:17 20:41:11 31 (LOG :2437.38 2439.26 1.88 FDEPTN: 10 10 BDEPTN: 31 32	63.56 m min) Purpose (Area cod GearCond Validity	PROJ POSITI code: 1 9 : 3 .code: code:	100.00 ECT STATIA ON:Lat 1 Long 1	DN:1229 N 1809 ∛ 1614
DATE:12/11/00 GEAR start stop duratic TIME :20:10:17 20:41:11 31 (LOG :2437.38 2439.26 1.88 FDEPTH: 10 10 BDEPTH: 31 32 Towing dir: 180¢ Wire o	63.56 a TYPE: PT No:6 on (min) Purpose of Area code GearCond Validity vut: 150 m Spec	PROJ POSITI code: 1 9 : 3 .code: code: code: ed: 33 kn	100.00 ECT STATIC ON:Lat 1 Long 5	DN:1229 N 1809 ∛ 1614
DATE:12/11/00 GEAR start stop duratic TIME :20:10:17 20:41:11 31 (LOG :2437.38 2439.26 1.88 FDEPTH: 10 10 BDEPTH: 31 32 Towing dir: 180¢ Wire o Sorted: 42 Kg Total cat	63.56 a TYPE: PT No:6 on (min) Purpose (Area code GearCond Validity out: 150 m Spec- sch: 107.04	PROJ POSITI code: 1 e : 3 .code: code: code: ed: 33 kn CATCH/	100.00 ECT STATION ON:Lat 1 Long 1 *10 HOUR: 2	ON:1229 N 1809 ∛ 1614 207.17
DATE:12/11/00 GEAR start stop duratic TIME :20:10:17 20:41:11 31 (LOG :2437.38 2439.26 1.88 FDEPTH: 10 10 BDEPTH: 31 32 Towing dir: 180¢ Wire o Sorted: 42 Kg Total cat	63.56 R TYPE: PT No:6 on (min) Purpose of Area cod GearCond Validity put: 150 m Spec sch: 107.04	PROJ POSITI code: 1 9 : 3 .code: code: code: code: code: code: code: code: code:	100.00 ECT STATIC ON:Lat 1 Long 4 *10 HOUR: 2	DN:1229 N 1809 N 1614 R07.17
DATE:12/11/00 GEAR start stop duratic TIME :20:10:17 20:41:11 31 (LGG :2437.38 2439.26 1.88 FDEFTH: 10 10 BDEFTH: 31 32 Towing dir: 180ø Wire o Sorted: 42 Kg Total cat SPECIES	63.56 TYPE: PT No:6 m (min) Purpose of GearCond Validity put: 150 m Spec sch: 107.04 CATCH/HC	PROJ POSITI code: 1 code: code: code: code: 3 code: co	100.00 ECT STATIC ON:Lat 1 Long 4 *10 HOUR: 2	DN:1229 N 1809 N 1614 R07.17 SAMP
DATE:12/11/00 GEAR BEART BOD duratio TIME :20:10:17 20:41:11 31 (LOG :2437.38 2439.26 1.88 FDEFTH: 10 10 BDEPTH: 31 32 Towing dir: 180ø Wire o Sorted: 42 Kg Total cat SPECIES BOODS boops	63.56 R TYPE: PT No:6 nn (min) Purpose (Area code GearCond Validity vut: 150 m Spec icch: 107.04 CATCH/HC weight m 38.90	PROJ POSITI code: 1 : 3 .code: code: code: ad: 33 kn CATCH/ DUR % imbers 2514	100.00 ECT STATIO ONILAT 1 Long 5 *10 HOUR: 2 OF TOT. C 18.78	ON:1229 N 1809 ∛ 1614 207.17 SAMP
DATE:12/11/00 GEAR start stop duratic TIME :20:10:17 20:41:11 31 (LOG :2437.38 2439.26 1.88 FDEFTH: 10 10 BDEPTH: 31 32 Towing dir: 1800 Wire o Sorted: 42 Kg Total cat SPECIES Boops boops Decapterus rhonchus Plectorinchus modificares	63.56 TYPE: PT No:6 on Min) Purpose of Area codd GearCond Validity vut: 150 m Spec ich: 107.04 CATCH/HK Weight m 38.90 28.57 29.57	PROJ POSITI code: 1 s : 3 code: code: code: d: 33 kn CATCH/ DUR % umbers 2514 122	*10 OF TOT. C 18.78 13.79	DN:1229 N 1809 N 1614 207.17 SAMP 2279
DATE:12/11/00 GEAR start stop duratic TIME :20:10:17 20:43:11 31 (LGG :2437.38 2439.26 1.88 FDEPTH: 10 10 BDEPTH: 31 32 Towing dir: 180ø Wire o Sorted: 42 Kg Total cat SPECIES Boops boops Decapterus rhonchus Plectorhinchus mediterraneus Trachurus trecae	63.56 TYPE: PT No:6 on Min) Purpose of Area code GearCond Validity vut: 150 m Spec Sch: 107.04 CATCH/HC weight mu 38.90 28.57 27.87 26.83	PROJ POSITI code: 1 9 : 3 code: code: code: d: 33 kn CATCH/ DUR 6 imbers 2514 122 99 139	100.00 ECT STATI ONLEAT 1 Long 1 *10 HOUR: 2 OF TOT, C 18.78 13.79 13.45 12.05	DN11229 N 1809 N 1614 NO7.17 SAMP 2279 2280
DATE:12/11/00 GEAR start stop duratic TIME :20:10:17 20:41:11 31 FDEFPH: 10 10 BDEFTH: 10 10 BDEFTH: 31 32 Towing dir: 180% Wire o Sorted: 42 Kg Total cat SPECIES Boops boops Jecapterus rhonchus Plectorhinchus mediterraneus Frachurus trecae Agellus bellottii Wwis thezard	63.56 R TYPE: PT No:6 on Area code GearCond Validity put: 150 m Spec Sch: 107.04 CATCH/HK Weight mu 38.90 28.57 27.87 26.63 20.67	PROJ POSITI code: 1 * : 3 code: code: code: code: code: code: 2514 122 99 99 133 163	100.00 ECT STATIO ONLEAT 1 Long 1 *10 HOUR: 2 0F TOT. C 18.78 13.79 13.45 12.95 9.98	2279 2280
DATE:12/11/00 GEAR start stop duratic TIME :20:10:17 20:431:11 31 (LOG :2437.38 2439.26 1.88 FDEPTH: 10 10 BDEFTH: 31 32 Towing dir: 180% Wire o Sorted: 42 Kg Total cat SPECIES Boops boops Decapterus rhonchus Plectorhinchus mediterraneus Frachurus trecae Pagellus bellottii uwis thazard Tomadaws rogeri	63.56 (TYPE: PT No:6 m (min) Purpose of GearCond Validity put: 150 m Spec sch: 107.04 CATCH/HK weight nu 38.90 20.57 27.87 26.83 20.67 19.05 11.07	PROJ POSITI code: 1 code: 2 code: 33 kn CATCH/ DUR % mbbers 2514 122 99 139 163 52 10	100.00 ECT STATI ONILAT 1 Long 5 *10 HOUR: 2 0F TOT, C 18.78 13.79 13.45 2.95 9.50 9.50	2279 2280
DATE:12/11/00 GEAR start stop duratic TIME :20:10:17 20:141:11 31 (LGO :2437.38 2439.26 1.88 FDEPTH: 10 10 BDEPTH: 31 32 Towing dir: 180ø Wire o Sorted: 42 Kg Total cat SPECIES Boops boops Becapterus rhonchus Plectorhinchus medicerraneus Frachurus trecae Plectorhinchus medicerraneus Frachurus trecae Pagellus belotti uwis thazard Yomadasys inciaus Berdinella maderenzia	63.56 R TYPE: PT No:6 m (min) Purpose of GearCond Validity put: 150 m Spec sch: 107.04 CATCH/HC weight m 38.90 28.57 27.87 26.83 20.67 19.05 11.07 11.03	PROJ POSITI code: 1 : 3 : code: code: 33 km CATCH/ DUR % imbers 2514 122 2514 122 99 163 52 10 52	100.00 ECT STATI ON:Lat 1 Long 3 *10 HOUR: 2 0F TOT. C 18.78 13.45 12.95 9.90 9.20 5.34 5.32	2200 : 1229 N 1809 ∛ 1614 1007 . 17 SAMP 2279 2280
DATE:12/11/00 GEAR start stop duratic TIME :20:10:17 20:141:11 31 (LGG :2437.38 2439.26 1.88 FDEFTH: 10 10 BDEPTH: 31 32 Towing dir: 1800 Wire o Sorted: 42 Kg Total cat SPECIES Boops boops Becapterus rhonchus Plectorhinchus mediterraneus Frachurus trecae Plectortinchus mediterraneus Frachurus trecae Orandawys rogeri Yomadawys rogeri Yomadawys inclaus Fardinella maderennis Fardurellestictus *	63.56 R TYPE: PT No:6 m (min) Purpose (Area codd GearCond Validity vut: 150 m Spec (cch: 107.04 CATCH/HC weight m 38.90 28.57 27.87 26.83 20.67 10.05 11.07 10.3 8.01 4.88	PROJ POSITI code: 1 : 3 : code: code: code: d: 33 kn CATCH/ DUR 1 22514 122 2514 122 99 139 163 52 10 52 52 10 52 52 52 52 52 52 52 52 52 52	100.00 ECT STATI ON: Lat 1 Long 3 *10 HOUR: 2 18.78 13.45 12.95 9.98 9.20 9.20 5.34 5.32 3.87 2.36	2281
DATE:12/11/00 GEAR start stop duratic TME :20:10:17 20:41:11 31 FDEPTH: 10 10 BDEPTH: 31 32 Towing dir: 180ø Wire o Sorted: 42 Kg Total cat SPECIES Boops boops Decapterus rhonchus Plectorhinchus mediterraneus Frachurus trecae Wagellus bellottii Luxis thazard Comadasys rogeri Oramadasys inciaus Sardinella maderensis Sardinella medierensis Sardinella medierensis	63.56 a TYPE: PT No:6 min) Purpose (Area code GearCond Validity vut: 150 m Spec- icch: 107.04 CATCH/HC weight m 38.90 28.57 27.87 26.83 20.67 11.03 8.01 4.88 3.06	PROJ POSITI 20de: 1 * : 3 code: code: code: 33 kn CATCH/ DUR * 122 2514 122 2514 122 139 163 52 10 52 75 6 6	100.00 ECT STATI ONILAT 1 Long 1 *10 HOUR1 2 OF TOT. C 18.78 13.45 12.95 9.98 9.20 5.34 5.32 3.87 2.36 1.48	2001:1229 N 1809 N 1614 NO7.17 SAMP 2279 2280 2281
DATE:12/11/00 GEAR start stop duratic TIME :20:10:17 20:41:11 31 FDEFTH: 10 10 BDEPTH: 10 10 BDEPTH: 31 32 Towing dir: 180% Wire o Sorted: 42 Kg Total cat SPECIES Boops boops Decapterus rhonchus Plectorhinchus mediterraneus Frachurus trecae Argellus bellottii Luxis thazard Jomadasys rogeri Jomadasys inciaus Jardinella maderensis Boparus caeruleostictus * Tichiurus lapturus Arapristipoma octolineatum Gromber japonicus	63.56 (TYPE: PT No:6 on (min) Purpose of Area code GearCond Validity put: 150 m Spec ch: 107.04 CATCH/HK weight mu 38.90 28.57 27.87 26.83 20.67 19.05 11.03 8.01 4.88 3.06 2.09 1.39	PROJ POSITI 2004e: 1 9 : 3 code: 2 code: 3 code: 3 code: 3 code: 4 code: 1 251 code: 1 251 code: 1 252 10 163 163 163 163 163 163 163 163 163 163	100.00 ECT STATI ONILAT 1 Long 1 *10 HOUR: 2 OF TOT. C 18.78 13.79 13.45 12.95 9.98 9.20 5.34 5.32 3.87 2.36 1.01 0.62	2279 N 1809 N 1614 NO7.17 SAMP 2279 2280 2281
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DATE:12/11/00 GEAR start stop duratic TIME :20:10:17 20:41:11 31 FOEPTH: 10 10 BOEPTH: 31 32 Towing dir: 1800s Wire o Sorted: 42 Kg Total cat SPECIES Boops boops Decapterus rhonchus Plectorhinchus mediterraneus Frachurus trecas Pagellus bellottii Auxis thazard Trankurus trecas Pagellus bellottii Auxis thazard Trankurus trecas Pagellus bellottii Auxis thazard Trankurus trecas Pagellus bellottii Auxis thazard Trankurus lepturus Parapristipoma octolineatum Sombar japonicus Marapristipoma ottolineatum Sombar japonicus Sombar japonicus Marapristipoma ottolineatum Sombar japonicus TIME :22:42:105 23:12:146 31 (m LOG :22456.86 2255.52 1.65 FDEPTH: 10 10 DEPTH: 96 Wire ou Sorted: 6 Kg Total catc	63.56 (TYPE: PT No:6 (min) Purpose of GearCond Validity put: 150 m Spec CATCH/HC (CATCH/HC (CATCH/HC (CATCH/HC (CATCH/HC (CATCH/HC (CATCH/HC (CATCH/HC (CATCH/HC (CATCH/HC (CATCH/HC (CATCH/HC (CATCH/HC (CATCH/HC (CATCH/HC (CATCH/HC (CATCH/HC) (CATCH/HC (CATCH/HC) (CATCH/HC (CATCH/HC) (CATC	PROJ positi code: 1 * : 3 .code: code: d: 33 kn CATCH/ DUR * mbbers 2514 10 52 10 52 10 52 10 52 10 52 75 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	100.00 ECT STATIC ONILAT 1 Long 1 *10 HOUR: 2 0F TOT. C 18.78 13.45 12.95 9.98 9.20 5.34 5.32 3.87 2.36 1.01 0.532 3.87 2.36 1.01 0.17 99.79 99.79 SCT STATICO NILAT N Long W	N:1229 N 1809 N 1614 NO7.17 SAMP 2279 2280 2281 2281 2281 1810 1626 1626 0.0.88 SAMP
DATE:12/11/00 GEAR start stop duratic TIME :20:10:17 20:41:11 31 FOEPTH: 10 10 BDEPTH: 31 32 Towing dir: 1800s Wire o Sorted: 42 Kg Total cat SPECIES Boops boops Decatorinchus mediterraneus Frachurus trecce Pagellus bellotti Muxis thazard Ormadasys rogeri Ormadasys inciaus Bardinella maderensis Bardinella maderensis Bardinella maderensis Bardinella maderensis Bardinella maderensis Bardinella maderensis Bardinella maderensis Bardinella stard Commadasys inciaus Bardinella stard Dante:12/11/00 GEAR start stop duration TIME: 12:142:05 23:12:46 31 (m LOG :2456:86 2456:52 1.65 FDEPTH: 10 10 BDEPTH: 96 82 Towing dir: 90e Wire ou Sorted: 6 Kg Total catc	63.56 CATYPE: PT No:6 m Area code GearCond Validity yout: 150 m Speed sch: 107.04 CATCH/HC Weight mu 38.90 27.87 27.87 26.83 20.67 19.05 11.07 11.03 8.01 4.88 3.06 2.09 1.39 1.16 0.97 0.81 0.00 206.71 TYPE: PT No:4 anin) Purpose cr Area code GarCond. Validity c tt: 150 m Speed cht 5.62 Veight mu 9.91	PROJ positi code: 1 : 3 code: code: code: 2514 122 99 139 163 163 163 163 163 163 163 163 163 163	100.00 ECT STATIO ONILAT 1 Long 1 Long 1 *10 HOUR: 2 OF TOT. C 18.78 13.45 12.95 9.98 9.20 5.32 3.45 1.01 0.56 0.47 0.56 0.17 99.79 XCT STATION NILAT N Long W 10 OUR: 1 10 OUR: 1 10 OUR: 1 10 OUR: 1	N:1229 N 1809 N 1614 NO7.17 SAMP 2279 2280 2281 2281 2281 1626 1626 1626
DATE:12/11/00 GEAR start stop duratic TIME :20:10:17 20:43:11 31 (LGG :2437.38 2439.26 1.88 FDEPTH: 10 10 BDEPTH: 31 32 Towing dir: 180% Wire o Sorted: 42 Kg Total cat Specific S Boops boops Decapterus rhonchus Pleetorhinchus mediterraneus Frachurus trecae Peedoterus rhonchus Pleetorhinchus mediterraneus Frachurus trecae Peedoterus rhonchus Pleetorhinchus mediterraneus Frachurus trecae Peedoterus rhonchus Bardinela maderensis Bardinela maderensis Bardineus sensis Bardineus sensis Bardineus sensis Bardineus prayensis Joligo vulgaris Seeudupeneus prayensis Juloteuthis africana Juloteuthis africana Juloteuthis deficana Juloteuthis def	63.56 CATYPE: PT No:6 m (min) Purpose of GearCond Validity validity yout: 150 m Spector cch: 107.04 CATCH/HK weight nu 38,90 20.57 27.87 26.83 20.67 19.05 11.07 11.03 8.01 4.88 3.06 2.09 1.39 1.60 0.97 0.81 0.35 0.00 206.71 TYPE: PT No:4 nin) Purpose cr Area code Garcend Validity of ut: 150 m Spece ch: 5.62 CATCH/HO weight nu 9.91 0.19	PROJ positi code: 1 code: 3 code: code: code: code: 2514 122 99 139 163 52 10 52 10 52 10 52 10 52 10 52 10 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	100.00 ECT STATIO ONILAT 11 Long 12 +10 HOUR: 2 0F TOT. C 18.78 13.79 13.45 12.95 9.20 5.34 5.32 2.36 1.48 9.20 5.34 5.32 2.36 1.48 9.20 5.34 5.32 2.36 1.48 9.20 5.34 5.32 2.36 1.48 9.20 5.34 5.32 2.36 1.48 9.20 5.34 1.01 0.67 0.56 0.47 0.57 9.79 0.17 99.79 W Long W Long W 10 00UR: 2 5 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7	N:1229 N 1809 N 1614 NO7.17 SAMP 2279 2280 2281 2281 2281 1810 1626 1626
DATE:12/11/00 GEAR start stop duratic TIME :20:10:17 20:41:11 31 (LGG :2437.38 2439.26 1.88 FDEPTH: 10 10 BDEPTH: 31 32 Towing dir: 1800 Wire o Sorted: 42 Kg Total cat Sorted: 42 Kg Total cat Decopterus rhonchus Decopterus rhonchus Decotorhinchus mediterraneus Frachurus trecas Decoterus rhonchus Decotorinchus mediterraneus Frachurus trecas Sardinella maderensis Sardinella maderensis Sardinella maderensis Sardinella maderensis Sardinella maderensis Soligo vulgaris "seudupeneus prayennis Johyraena sphyraena Jolog vulgaris "seudupeneus prayensis Johyraena sphyraena Johoteuthis africana Notal DATE:12/11/00 GEAR start stop duration TIME :22:42:05 23:12:46 31 (m LGG :2456.66 2458.52 1.65 FDEFTH: 96 82 Towing dir: 900 Wire ou Sorted: 6 Kg Total catc PECTES richiurus lepturus ricoma bondi foropHIDA Lex coindetii	63.56 63.56 (min) Purpose of GearCond Validity validity vulidity vulidity vulidity vulidity validity vulidity vulidity vulidity vulidity validity vulidity 26.57 26.83 20.67 19.05 11.03 4.88 3.06 2.09 1.39 1.6 0.97 0.81 0.35 0.00 206.71 TYPE: PT No:4 nin) Purpose cr Area code GearCond. validity ott: 150 m Speet ch: 5.62 CATCH/HO weight nun 9.91 0.19 0.19	PROJ positi code: 1 : 3 code: code: code: protection 2514 122 99 139 163 52 10 52 10 52 10 52 10 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 7 7 5 7 5	100.00 ECT STATIONICAL STATIONI	N:1229 N 1809 d 1614 NO7.17 SAMP 2279 2280 2281 2281 1810 1626 0.0.88 SAMP
DATE:12/11/00 GEAR start stop duratic TIME :20:10:17 20:41:11 31 FOEPTH: 10 10 BDEPTH: 31 32 Towing dir: 1800 Wire o Sorted: 42 Kg Total cat SPECIES Boops boops Decoptionus mediterraneus Frachurus trecae Decopterus rhonchus Peletorhinchus mediterraneus Frachurus trecae Sardinella maderensis Sardinella maderensis Sardinella maderensis Sardinella maderensis Sardinella maderensis Sorted: 42 Kg Total cat Date: 12/11/00 GEAR Start stop duration TIME :22:42:05 23:12:46 31 (f LOO 1245.66 2454.52 1.65 FDEFTH: 10 10 BDEFTH: 96 82 Towing dir: 90s Wire ou Sorted: 6 Kg Total catc	63.56 63.56 area code GearCond Validity vut: 150 m Speed och: 107.04 CATCH/HC weight mut 38.90 28.57 26.83 20.67 19.05 11.03 8.06 2.067 19.05 11.03 8.01 3.069 2.87 26.83 20.67 19.05 11.03 8.01 4.88 3.06 2.09 1.39 1.60 0.97 0.81 0.35 0.00 206.71 TYPE: PT No:4 atin) Purpose Cr Area code GearCond veight num 9.91 0.19 0.19 0.19 0.19 0.15	PROJ positi code: 1 e: 3 code: code: code: 2514 122 999 163 52 10 52 52 52 52 52 52 52 52 52 52 52 52 52	100.00 ECT STATIO ONILAT 1 Long 1 *10 HOUR1 2 0P TOT. C 18.78 13.79 9.98 9.20 5.34 5.32 9.98 9.20 5.34 5.32 9.98 9.20 5.34 5.32 3.87 2.36 1.05 0.534 5.32 3.87 2.36 1.05 0.534 5.32 3.87 2.36 0.534 5.32 9.20 9.20 9.20 9.20 9.20 9.20 9.20 9.2	N:1229 N 1809 N 1614 NO7.17 SAMP 2279 2280 2281 2281 2281 1810 1626 1810 1626
DATE:12/11/00 GEAR start stop duratic TIME :20:10:17 20:141:11 31 FDEPTH: 10 10 BDEPTH: 31 32 Towing dir: 1800 Wire o Sorted: 42 Kg Total cat SPECIES Boops boops Decapterus rhonchus Plectorhinchus mediterraneus Trachurus trecas Decapterus rhonchus Plectorhinchus mediterraneus Trachurus trecas Sardinella maderensis Sardinella maderensis Sardinella maderensis Sardinella maderensis Sardinella maderensis Sardinella maderensis Sardinella maderensis Sardinella maderensis Sardinella maderensis Normadasys rogeri Prichlurus lepturus Parapristipoma octolineatum Secomber japonicus Japonicus Sardinella stricana Notal DATE:12/11/00 GEAR start stop duration TIME :22:42:05 23:12:46 31 (fs LOG :22:456.86 22:65.52 1.65 FDEPTH: 10 10 BDEPTH: 96 Wire ou Sorted: 6 Kg Total catc PECIES richlurus lepturus ricomma bondi YCTOPHIDAE Ilex coindetii rgentina sphyraena magrops microlepis	63.56 CATYPE: PT No:6 Area code Area code Area code GearCond Validity Spec sch: 107.04 CATCH/HC CATCH/HC weight m 38.90 27.87 26.83 20.67 10.05 11.07 11.03 8.01 4.88 3.06 2.097 1.16 0.35 0.00 206.71 206.71 TYPE: PT No:4 n Purpose co ch: 15.62 CATCH/HO weight num 9.91 0.19 0.19 0.19 0.19 0.19 0.19 0.15	PROJ positi code: 1 : 33 kn code: 233 kn CATCH/ UR 1 221 10 52 52 52 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	100.00 ECT STATIC ONILAT 1 Long 1 *10 HOUR: 2 0F TOT. C 18.78 13.45 12.95 9.98 9.20 9.20 9.20 9.20 9.20 9.23 8.77 2.368 1.01 0.532 3.87 0.54 0.47 0.39 0.17 99.79 99.79 SCT STATICO NILAT N Long W 10 OUR: 2 F TOT. C 91.08 1.75 1.75 1.75 1.75 1.75 1.37 0.37	N:1229 N 1809 N 1614 NO7.17 SAMP 2279 2280 2281 2281 2281 1810 1626 1810 1626

		PR	OIECT STAT	TON: 1231
DATE:13/11/00 GEAR start stop duratio	TYPE: PT No:	7 POSI	TION:Lat	N 1820
TIME :04:01:16 04:31:10 30 (:	min) Purpose	coder	1	W 1616
FDEPTH: 5 5	GearCond	de : d.code:	3	
BDEPTH: 27 23 Towing dir: 90¢ Wire o	Validity ut: 150 m Spe	y code: eed: 30	kn*10	
Sorted: 55 Kg Total cat	ch. 111 50	CATO	u /uoun .	003 10
istur car		CATC	H/HOUR I	223.18
SPECIES	CATCH/H	HOUR	OF TOT.	SAMP
Sardinella maderensis	157.84	umbers 572	70.72	2283
Loligo vulgaris	60.42	142	27.07	2282
Trichiurus lepturus Lagocephalus laevigatus	1.00	2	0.45	
Scomber japonicus	0.60	2	0.27	
Total	223.18		100.00	
DAME 13 (11 (00		PRO	JECT STATI	ON:1232
start stop duration	TYPE: PT No:7	POSI	Long	N 1825 W 1614
TIME :05:40:52 06:12:20 31 (m LOG :2516.29 2517.80 1.50	in) Purpose Area cod	code: 1		
FDEPTH: 5 5 BDEPTH: 22 20	GearCond	.code:		
Towing dir: 19ø Wire ou	t: 150 m Spe	ed: 30 }	tn*10	
Sorted: 73 Kg Total cate	h: 219.60	CATCH	I/HOUR :	425.03
appertus				
0 f BG 1 B3	CATCH/H weight n	OUR % umbers	OF TOT, C	SAMP
Sardinella aurita Sardinella maderensis	256.65	552 383	60.38	2284
Pomadasys incisus Decapterus rhonchus	8.25	29	1.94	6033
Boops boops	0.81	35	1.78	
Pagellus bellottil	0.70	6	0.16	
Total	425.04		100.00	
DATE: 13/11/00 GEAR	TYPE, PT No.6	PRO	JECT STATIC	N:1233
start stop duration	TIPET PT NOTO	POSIT	Long V	1830
LOG :2526.60 2528.28 1.67	Area code	rode: 1 > : 3		
BDEPTH: 10 10 BDEPTH: 37 43	GearCond. Validity	.code:		
		code:		
Towing dir: 270ø Wire out	: 150 m Spee	code: d: 32 k	n*10	
Towing dir: 270ø Wire ou Sorted: 1 Kg Total cate	: 150 m Spee	code: ed: 32 k CATCH,	n*10 /HOUR:	1.69
Towing dir: 270ø Wire out Sorted: 1 Kg Total catel	:: 150 m Spee n: 0.90	code: ed: 32 k CATCH,	n*10 /HOUR:	1.69
Towing dir: 270ø Wire ou Sorted: 1 Kg Total cate? SPECIES	c. 150 m Spee n: 0.90 CATCH/HC weight nu	code: ed: 32 ki CATCH. DUR % mbers	n*10 /HOUR: OF TOT, C	1.69 Samp
Towing dir: 270ø Wire ou Sorted: 1 Kg Total catc SPECIES Campogramma glaycos	c: 150 m Spee n: 0.90 CATCH/HC weight nu 1.69	code: ad: 32 k: CATCH, DUR % umbers 2	n*10 /HOUR: OF TOT, C 100.00	1.69 SAMP
Towing dir: 270ø Wire ou Sorted: 1 Kg Total cate SPECIES Campogramma glaycos Total	:: 150 m Spee n: 0.90 CATCH/HC weight nu 1.69 1.69	code: ed: 32 k: CATCH, DUR % mbers 2	n*10 /HOUR: OF TOT. C 100.00 100.00	1.69 Samp
Towing dir: 270ø Wire ou Sorted: 1 Kg Total cate SPECIES Campogramma glaycos Total -	150 m Spee 1: 0.90 CATCH/HC weight nu 1.69 1.69	code: ed: 32 k: CATCH, DUR % imbers 2	n*10 /HOUR: OF TOT. C 100.00 100.00	1.69 SAMP
Towing dir: 270@ Wire out Sorted: 1 Kg Total cate SPECIES Campogramma glaycos Total - DATE:13/11/00 GEAR T	21 150 m Spee 11 0.90 CATCH/HC weight nu 1.69 1.69 YPE: PT No:1	code: ed: 32 k CATCH UR % imbers 2 PROJ POSITI	n*10 /HOUR: OF TOT. C 100.00 100.00	1.69 SAMP N:1234 1829
Towing dir: 2700 Wire out Sorted: 1 Kg Total cate SPECIES Campogramma glaycos Total - DATE:13/11/00 GEAR T Start stop duration TIME :09:15:29 10:14:10 59 (m	:: 150 m Spee :: 0.90 CATCH/HC weight nu 1.69 1.69 YPE: PT No:1 n) Purpose c	code: ad: 32 k CATCH. DUR % umbers 2 PROC POSITI	n*10 /HOUR: OF TOT. C 100.00 100.00 VECT STATIC CON Lat N Long W	1.69 SAMP N:1234 1829 1627
Towing dir: 2700 Wire out Sorted: 1 Kg Total catel SPECIES Campogramma glaycos Total DATE:13/11/00 GEAR T start stop duration TIME 109:15:29 10:14:10 59 (mi LOG :2536.62 2540.16 3.33 FPEPTH: 50 55	150 m Spee CATCH/HC weight nu 1.69 TYPE: PT No:1 n) Purpose c Area code	code: ad: 32 k CATCH UNR % imbers 2 PROC POSITI	n*10 /HOUR: OF TOT, C 100.00 100.00 HECT STATIO (ON:Lat N Long W	1.69 SAMP N:1234 1829 1627
Towing dir: 2700 Wire out Sorted: 1 Kg Total catel SPECIES Campogramma glaycos Total DATE:13/11/00 GEAR 7 start stop duration TIME :09:15:29 10:14:10 59 (mi LOG :2536.62 2540.16 3.33 FDEPTH: 67 60	150 m Spee CATCH/HC weight nu 1.69 1.69 TYPE: PT No:1 n) Purpose c Area code GearCond. Validity	code: ed: 32 k CATCH. UMBers 2 PROJ POSITI ode: 1 : 3 code: code:	n*10 /HOUR: OF TOT. C 100.00 100.00 VECT STATIO CONILAT N Long W	1.69 SAMP N:1234 1829 1627
Towing dir: 2700 Wire out Sorted: 1 Kg Total catch SPECIES Campogramma glaycos Total DATE:13/11/00 GEAR 7 Etart stop duration TIME :09:15:29 10:14:10 59 (mi LOG :2536.62 2540.16 3.33 FDEPTH: 50 50 BDEPTH: 67 60 Towing dir: 1800 Wire out	150 m Spee CATCH/HC weight nu 1.69 TYPE: PT No:1 n) Purpose c Area code GearCond, Validity : 250 m Spee	code: edi 32 k CATCH. DUR % imbers 2 PROC POSITI code: 1 : 3 code: 1 : 3 code: 4 di 38 kr	n*10 /HOUR: OF TOT. C 100.00 100.00 /////////////////////////	1.69 SAMP N:1234 1829 1627
Towing dir: 2700 Wire out Sorted: 1 Kg Total catch SPECIES Campogramma glaycos Total DATE:13/11/00 GEAR 7 Start stop duration TIME :09:15:29 10:14:10 59 (mi LOG :2536.62 2540.16 3.33 FDEPTH: 50 50 BDEPTH: 67 60 Towing dir: 1800 Wire out Sorted: Kg Total catch	150 m Spee 1: 0.90 CATCH/HC weight nu 1.69 1.69 TYPE: PT No:1 n) Purpose c Area code GearCond. Validity 1: 250 m Spee 1: 0.18	code: cATCH. CATCH. UUR % umbers 2 POSITJ code: 1 : 3 code: 1 : 38 kr. code: 41 38 kr.	n*10 /HOUR: OF TOT. C 100.00 100.00 /////////////////////////	1.69 SAMP N:1234 1829 1627 0.18
Towing dir: 2700 Wire out Sorted: 1 Kg Total catch SPECIES Campogramma glaycos Total DATE:13/11/00 GEAR 7 Start stop duration TIME :09:15:29 10:14:10 59 (mi LOG :2536.62 2540.16 3:33 FDEFTH: 50 50 BDEPTH: 67 60 Towing dir: 1800 Wire out Sorted: Kg Total catch	150 m Spee CATCH/HO weight nu 1.69 1.69 TYPE: PT No:1 n) Purpose c Area code GearCond. Validity 1.250 m Spee 1.0.18 CATCH/HO	code: code: 32 ki cATCH. UR % imbers 2 PRO: POSITI code: 1 : 3 code: 1 : 4 : 4 : 4 : 4 : 4 : 4 : 4 : 4 : 4 : 4	n*10 /HOUR: OF TOT. C 100.00 100.00 //ON.Lat N Long W *10 HOUR: OF TOT. C	1.69 SAMP N:1234 1829 1627 0.18 SAMP
Towing dir: 270e Wire out Sorted: 1 Kg Total catch SPECIES Campogramma glaycos Total DATE:13/11/00 GEAR 7 start stop duration TIME :09:15:29 10:14:10 59 (mi LOG :2536.62 2540.16 3.33 FDEFTH: 50 50 BDEPTH: 67 60 Towing dir: 180e Wire out Sorted: Kg Total catch SPECIES Trachinus draco	150 m Spee CATCH/HC weight nu 1.69 1.69 1.69 YPE: PT No:1 n) Purpose c Area code GearCond. Validity 1.250 m Spee 0.18 CATCH/HO weight num 0.18	code: edi 32 ki CATCH, umbers 2 POCO POSITI code: 1 : 3 code: code: d: 38 kr CATCH/ UR %	n*10 /HOUR: OF TOT. C 100.00 100.00 HECT STATIO CONILAT N Long W *10 HOUR: OF TOT. C	1.69 SAMP N:1234 1829 1627 0.18 SAMP
Towing dir: 270e Wire out Sorted: 1 Kg Total catch SPECIES Campogramma glaycos Total DATE:13/11/00 GEAR 7 Start stop duration TIME :09:15:29 10:14:10 59 (mi LOG :2536.62 2540.16 3.33 FDEPTH: 50 50 BDEFTH: 50 50 BDEFTH: 67 66 DEFTH: 67 66 SOFTH: 67 76 Towing dir: 180e Wire out Sorted: Kg Total catch SPECIES Trachinus draco Illex coindetii	150 m Spee 150 m Spee 169 CATCH/HC weight nu 1.69 1.69 1.69 TYPE: PT No:1 n) Purpose c Area code GearCond. Validity 250 m Spee 1 0.18 CATCH/HO weight nu 0.08 0.04	code: edi 32 ki CATCH, umbers 2 POC POSITI code: 1 code: 1 code: 1 code: 1 code: 2 code: 3 code: 3 code: 3 code: 3 code: 3 code: 3 cotcH, cotc	n*10 /HOUR: OF TOT. C 100.00 100.00 /////////////////////////////////	1.69 SAMP N:1234 1829 1627 0.18 SAMP
Towing dir: 270e Wire out Sorted: 1 Kg Total catch SPECIES Campogramma glaycos Total DATE:13/11/00 GEAR 7 Start stop duration TIME :09:15:29 10:14:10 59 (mi LOG :2536.62 2540.16 3.33 FDEFTH: 50 50 BDEFTH: 50 50 BDEFTH: 57 60 Towing dir: 180e Wire out Sorted: Kg Total catch SPECIES Trachinus draco Illex coindetii Trachurus trecae Lagocephalus laevigatus	<pre>:: 150 m Spee n: 0.90 CATCH/HC weight nu 1.69 1.69 1.69 PYPE: PT No:1 n) Furpose c Area code GearCond. Validity : 250 m Spee : 0.18 CATCH/HO weight nu 0.08 0.04 0.02 0.01</pre>	code: edi 32 ki CATCH, umbers 2 POC POSITI code: 1 : 3 code: d: 38 kr CATCH/ UR % mbers 3 7 9 1	n*10 /HOUR: OF TOT. C 100.00 100.00 100.00 /////////////////////////////////	1.69 SAMP N:1234 1829 1627 0.18 SAMP
Towing dir: 270e Wire out Sorted: 1 Kg Total catch SPECIES Campogramma glaycos Total DATE:13/11/00 GEAR 7 Etart stop duration TIME :09:15:29 10:14:10 59 (mi LOG :2536.62 2540.16 3.33 FDEPTH: 50 50 BDEPTH: 50 50 BDEPTH: 57 60 Towing dir: 180e Wire out Sorted: Kg Total catch SPECIES Trachinus draco Illex coindetii Trachurus trecae Lagocephalus laevigatus Argentina sphyraena Seleme dorsalis	<pre>:: 150 m Spee n: 0.90 CATCH/HC weight nu 1.69 1.69 1.69 PYPE: PT No:1 n) Furpose c Area code GearCond. Validity : 250 m Spee : 0.18 CATCH/HO weight nu 0.08 0.04 0.02 0.01 0.01</pre>	code: edi 32 ki CATCH, umbers 2 POC POSITI code: 1 : 3 code: 1 : 3 code: 1 : 3 code: 1 : 3 code: 2	n*10 /HOUR: OF TOT. C 100.00 100.00 /////////////////////////////////	1.69 SAMP N:1234 1829 1627 0.18 SAMP
Towing dir: 270e Wire out Sorted: 1 Kg Total catch SPECIES Campogramma glaycos Total DATE:13/11/00 GEAR 7 Etart stop duration TIME :09:15:29 10:14:10 59 (mi LOG :2536.62 2540.16 3.33 FDEPTH: 50 50 BDEPTH: 50 50 BDEPTH: 57 60 Towing dir: 180e Wire out Sorted: Kg Total catch SPECIES Trachinus draco Illex coindetii Trachurus trecae Lagocephalus laevigatus Argentina sphyraena Selem dorsalis MYCTOPHIDAE	<pre>:: 150 m Spee n: 0.90 CATCH/HC weight nu 1.69 1.69 1.69 PYPE: PT No:1 n) Furpose c Area code GearCond. Validity : 250 m Spee : 0.18 CATCH/HO weight nu 0.08 0.04 0.02 0.01 0.01 0.01</pre>	code: edi 32 ki CATCH, umbers 2 PORO POSITI code: 1 : 3 code: code: d: 38 kr CATCH/ UR % mbers 3 7 9 1 3 1 7	n*10 /HOUR: OF TOT. C 100.00 100.00 /////////////////////////////////	1.69 SAMP N:1234 1829 1627 0.18 SAMP
Towing dir: 270e Wire out Sorted: 1 Kg Total catch SPECIES Campogramma glaycos Total DATE:13/11/00 OEAR 7 Start stop duration TIME :09:15:29 10:14:10 59 (mi LOG :2536.62 2540.16 3.33 FDEPTH: 50 50 BDEPTH: 50 50 BDEPTH: 57 60 Towing dir: 180e Wire out Sorted: Kg Total catch SPECIES Trachinus draco Illex coindetii Trachurus trecas Lagocephalus laevigatus Argentina sphyraena Selem dorsalis MYCTOPHIDAE	<pre>:: 150 m Spee n: 0.90 CATCH/HC weight nu 1.69 1.69 1.69 PYPE: PT No:11 n) Purpose c Area code GearCond. Validity : 250 m Spee : 0.18 CATCH/HO weight nu 0.08 0.04 0.02 0.01 0.01 0.01 0.01 0.01</pre>	code: edi 32 ki CATCH, umbers 2 PORO POSITI ode: 1 : 3 code: code: code: d: 38 kr CATCH/ UR % mbers 3 7 9 1 3 1 7	n*10 /HOUR: OF TOT. C 100.00 100.00 /////////////////////////////////	1.69 SAMP N:1234 1829 1627 0.18 SAMP
Towing dir: 270e Wire out Sorted: 1 Kg Total catch SPECIES Campogramma glaycos Total DATE:13/11/00 OEAR 7 Start stop duration TIME :09:15:29 10:14:10 59 (mi LOG :2536.62 2540.16 3.33 FDEFTH: 50 50 BDEFTH: 50 50 BDEFTH: 57 60 Towing dir: 180e Wire out Sorted: Kg Total catch SPECIES Trachinus draco Illex coindetii Trachurus tracaa Laqocephalus laevigatus Argentina sphyraena Selem dorsalis MYCTOPHIDAE	:: 150 m Spee :: 0.90 CATCH/HC weight nu 1.69 1.69 	code: edi 32 ki cATCH, umbers 2 positi code: cod	n*10 /HOUR: OF TOT. C 100.00 100.00 /////////////////////////////////	1.69 SAMP N:1234 1829 1627 0.18 SAMP
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Towing dir: 270e Wire out Sorted: 1 Kg Total catch SPECIES Campogramma glaycos Total	<pre>1 150 m Spee 1 0.90 CATCH/HC weight nu 1.69 1.69 1.69 PYPE: PT No:1 n) Purpose co Area code GearCond., Validity 250 m Spee 1 0.18 CATCH/HOU weight nu 0.08 0.04 0.01 0.02 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.02 0.02 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.02 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.02 0.0</pre>	code: edi 32 ki CATCH, UR % imbers 2 PROC POSITI code: 1 code: 1 code: 1 code: 1 di 38 kr CATCH/ UR % CATCH/ POSITI posITI posITI code: 1 3 1 7 7 9 9 1 3 3 1 7 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	A*10 /HOUR: OF TOT. C 100.00 100.00 IECT STATIO (ON)LAT N Long W *10 HOUR: OF TOT. C 44.44 22.21 11.11 5.56 5.56 5.56 100.01 ECT STATIOR NNLAT N Long W *10 COUR: 33 OF TOT. C 85.13 8.92 2.18 1.49 1.41 1.41 1.41 1.49 1.49 1.49 1.49 1.49 1.49 1.49 1.49 1.49 1.49 1.41 1.49 1.41 1.49	1.69 SAMP N:1234 1829 1627 0.18 SAMP 1627 0.48 SAMP 2286
Towing dir: 270e Wire out Sorted: 1 Kg Total catch SPECIES Campogramma glaycos Total	<pre>1 150 m Spee 1 0.90 CATCH/HC weight nu 1.69 1.69 1.69 PYPE: PT No:1 n) Purpose co Area code GearCond., Validity 250 m Spee 0.18 CATCH/HOI weight nu 0.08 0.04 0.01 0.02 Marcer.cod. 0.02 0.01</pre>	code: edi 32 ki CATCH, UR % imbers 2 PROC POSITI ode: 1 code: 1 code: 1 code: 1 di 38 kr CATCH/ UR % CATCH/ POSITI ode: 1 3 1 7 7 POSITI POSITI ode: 1 3 3 1 7 7 POSITI POSITI POSITI POSITI CATCH/ R % C bers catch i 30 kn catch/ positi code: 1 3 catch i 3 catch i 2 catch i 2 catch i 2 catch i 2 catch i 3 catch i 2 catch i 2 catch i 2 catch i 3 catch i 2 catch i 2 catch i 3 catch i 3 catch i 2 catch i 3 catch i 3 c i 3 c i 3	A*10 (HOUR: OF TOT. C 100.00 100.00 100.00 ECT STATIO (ON)LAT N Long W *10 HOUR: OF TOT. C 44.44 22.21.21 1.11 5.56 5.56 100.01 ECT STATIOR NNLAT N Long W *10 HOUR: 33 OF TOT. C 85.13 8.92 2.18 1.49 1.49 1.49 0.31 0.27 0.11 0.03 1.00 0.04	1.69 SAMP N:1234 1829 1627 0.18 SAMP 1629 0.42 SAMP 2286
Towing dir: 270e Wire out Sorted: 1 Kg Total catch SPECIES Campogramma glaycos Total DATE:13/11/00 GEAR T start stop duration TIME :09:15:29 10:14:10 59 (mi LOG :2536.62 2540.16 3.33 PDEPTH: 50 50 DDEPTH: 67 60 Towing dir: 180e Wire out Sorted: Kg Total catch SPECIES Trachinus draco Illex coindetii Trachurus trecae Lagocephalus laevigatus Argentina sphyraena Seleme dormalis MYCTOPHIDAE Total DATE:13/11/00 GEAR T start stop duration TIME :11:39:153 12:09:41 30 (mir LOG :2552.14 2553.71 1.55 FDEPTH: 86 81 DEEPTH: 86 81 Towing dir: 300e Wire out: Sorted: 50 Kg Total catch: SPECIES Trachurus trecae Zeus faber CALATIESIDAE • 110ex coindetii Dentex marcophthalmus Dentex angolensis Loligo vulgaris Todaropsis eblanae Boops bops Monochirus hispidus GOBIDAE	1: 150 m Spee 1: 0.90 CATCH/HC weight nu 1.69 1.69 1.69 PYPE: PT No:1 n) Purpose co Area code GearCond., Validity 1: 250 m Spee 1: 0.18 CATCH/HCI weight nu 0.08 0.04 0.01	code: edi 32 ki CATCH, UR % imbers 2 PROC POSITI ode: 1 code: 2 code: 1 code: 1 code: 1 code: 1 code: 3 code: 3 code: 4 i 38 kr PROJ POSITI POSITI posITI posITI code: 1 i 3 code: 1 code: 1 code: 3 code: 3 code: 1 code: 1 code: 3 code: 1 code: 1 c	A*10 (HOUR: OF TOT. C 100.00 100.00 ECT STATIC (ON) LAT N Long W *10 HOUR: OF TOT. C 44.44 22.22 11.21 5.56 5.56 5.56 100.01 ECT STATIC NNILAT N Long W *10 HOUR: 33 OF TOT. C 85.13 8.92 2.18 1.49 1.4	1.69 SAMP N:1234 1829 1627 0.18 SAMP 0.18 SAMP 0.42 SAMP 2286

start stop duration	TIPET PT NOT		ITION:Lat N	1839
TIME :17:03:47 17:36:51 33 (m.	in) Purpose	code:	Long W	1624
LOG :2605.10 2607.17 1.88 FDEPTH: 10 10	Area coo GearCond	le :	3	
BDEPTH: 55 50 Towing dir: 170g Wire out	Validity	code:	kn#10	
Control 1 Var march 1 and		Hear 30	KH-10	
Sorted: 1 kg Total catch	1: 0.85	CAT	CH/HOUR :	1.55
SPECIES	CATCH/H	IOUR	& OF TOT. C	SAMP
Campogramma glavcos	weight n	umbers	100.00	onn
Total	1.55	4		
Iotar	1.55		100.00	
DATE: 13/11/00 GEAR 7	YPE: PT No:7	PI	ROJECT STATIO	N:1237
start stop duration TIME :19:14:23 19:42:29 28 (mi	n) Purpose	ande.	Long W	1618
LOG :2621.69 2623.29 1.60	Area cod	e i	3	
BDEPTH: 19 17	Validity	code:		
Towing dir: 1350 Wire out	: 150 m Spe	ed: 33	kn*10	
Sorted: 99 Kg Total catch	408.86	CATO	CH/HOUR: 8	76.13
SPECIES	CATCH/H	OLID	A OF TOT O	-
Sardinella aurita	weight n	umbers	an se	DAWL
Decapterus rhonchus Boons boons	75.86	1704	8,66	2287
Diplodus puntazzo	47.14 36.99	2154 30	5.38	
sardinella maderensis Sepia bertheloti	22.29 5.36	54	2.54	2288
Pomadasys incisus Sphyraena sphyraena	4.84	19	0.55	
Spondyliosoma cantharus	0.86	2	0.10	
Pseudupeneus prayensis	0.43	11 2	0.05	
Total	876.15		99.99	
		DR	OTECT STATION	1.1220
DATE:14/11/00 GEAR T	YPE: PT No:6	POSI	TION:Lat N	1900
TIME :04:10:52 04:39:44 29 (mi)	n) Purpose o	code:	Long W	1635
FDEPTH: 5 5	GearCond	e : .code:	3	
BDEPTH: 72 67 Towing dir: 90ø Wire out	Validity : 150 m Spee	code: ed: 35	kn*10	
Sorted: 14 Kg Total catch	14.76	CATC	H/HOUR: 3	0.54
				0.54
SPECIES	CATCH/HC	UR	S OF TOT. C	SAMP
Campogramma glaycos	12.95	12	42.40	
Sarda sarda	10.14	14	33.20	
Masshuma tasaa	6.54	12	10 T 1 M T	
Trachurus trecae Illex coindetii	6.54 0.95 0.08	12 39 2	3.11 0.26	2289
Trachurus trecae Illex coindetii	6.54 0.95 0.08 30.66	12 39 2	3.11 0.26	2289
Trachurus trecae Illex coindetii — Total —	6.54 0.95 0.08 30.66	12 39 2	3.11 0.26 100.38	2289
Trachurus trecae Illex coindetii — Total —	6.54 0.95 0.08 30.66	12 39 2	3.11 0.26 100.38	2289
DATE:14/11/00 GEAR TY	6.54 0.95 0.08 30.66	12 39 2 PRO POSI	3.11 0.26 100.38	2289 :1239 1901
DATE:14/11/00 OEAR T BEATT Stop duration TIME :06:38:06 07:08:45 31 (mir	6.54 0.95 0.08 30.66 7PE: PT No:7	12 39 2 PRC POSIT	3.11 0.26 100.38 DJECT STATION FION LAT N Long W	2289 :1239 1901 1625
DATE:14/11/00 OEAR T start stop duration TIME :06:38:06 07:08:45 31 (mir LOG :2716.79 2718.24 1.43 FDEPTH: 5 5	(PE: PT No:7 (PE: PT No:7 (PE: Code Code Code Code Code Code Code Code	12 39 2 PRO POSIT	3.11 0.26 100.38 DJECT STATION FION:Lat N Long W	2289 :1239 1901 1625
DATE:14/11/00 OEAR T start stop duration TIME :06:38:06 07:08:45 31 (mir LOG :2716.79 2718.24 1.43 FDEPTH: 5 BDEFTH: 24 28 Towing dir: 255 Wire out;	6.54 0.95 0.08 30.66 7PE: PT No:7 1) Purpose c Area code GearCond. Validity 150 m Spee	12 39 2 PRO POSIT code: 1 code: 1 code: 2 code: 2 code: 2 code: 3 code: 3 code	3.11 0.26 100.38 DJECT STATION FION:Lat N Long W	2289 :1239 1901 1625
DATE:14/11/00 GEAR T start stop duration TIME:16:13:06 07:08:45 31 (mir LOG :2716.79 2718.24 1.43 FDEPTH: 5 5 BDEFTH: 24 28 Towing dir: 295% Wire out; Sorted: Kg Tatal catch	6.54 0.95 0.08 30.66 7PE: PT No:7 1) Purpose c Area code GearCond. Validity 150 m Spee	12 39 2 PRC POSIT	3.11 0.26 100.38 DJECT STATION FION:Lat N Long W s	2289 :1239 1901 1625
DATE:14/11/00 GEAR TY start stop duration TIME:16:13:106 07:03:45 31 (mir LOG :2716.79 2718.24 1.43 FDEFTH: 24 28 Towing dir: 2950 Wire out; Sorted; Kg Total catch;	6.54 0.95 0.08 30.66 7PE: PT No:7 1) Purpose c Area code GearCond. Validity 150 m Spee	12 39 2 PRO POSIT code: 1 code: 1 code: 2 code: 4 code: 32 CATCH	3.11 0.26 100.38 DJECT STATION LONG W Long W S sn*10	2289 :1239 1901 1625
DATE:14/11/00 GEAR TT start stop duration TIME:16:13:106 07:03:45 31 (mir LOG :2716.79 2718.24 1.43 FDEFTH: 24 28 Towing dir: 2950 Wire out; Sorted: Kg Total catch; SPECIES	6.54 0.95 0.08 30.66 7PE: PT No:7 1) Purpose c Area code GearCond. Validity 150 m Spee CATCH/HO	12 39 2 PRO POSIT code: 1 code: 1 code: 32 CATCH	3.11 0.26 100.38 DJECT STATION LONG W Long W s sn*10 1/HOUR:	2289 :1239 1901 1625 SAMP
DATE:14/11/00 GEAR TY start stop duration TIME:16:13:06 07:08:45 31 (mir LOG :2716.79 2718.24 1.43 FDEPTH: 24 28 Towing dir: 2950 Wire out: Sorted: Kg Total catch: SPECIES	6.54 0.95 0.08 30.66 'PE: PT No:7 1) Purpose c Area code GearCond. Validity 150 m Spee CATCH/HO weight nu	12 39 2 PRC POSIT code: 1 code: 1 code: 1 code: 2 code: 2 code: 2 code: 2 code: 3 code: 3 code	3.11 0.26 100.38 DJECT STATION LONG W Long W s sn*10 1/HOUR:	2289 :1239 1901 1625 SAMP
DATE:14/11/00 GEAR TY Start stop duration TIME:166:38:06 07:08:45 31 (mir LOG :2716.79 2718.24 1.43 FDEPTH: 24 28 Towing dir: 2956 Wire out; Sorted: Kg Total catch; SPECIES Total	6.54 0.95 0.08 30.66 'PE: PT No:7 1) Purpose of Area code GearCond. Validity 150 m Spee CATCH/HO weight nu	12 39 2 PRG POSIT code: 1 code: 1 code: 2 code: 4 CATCH UR 9 mbers	3.11 0.26 100.38 DJECT STATION LONG W Long W s sn*10 1/HOUR:	2289 :1239 1901 1625 SAMP
DATE:14/11/00 GEAR TY Start stop duration TIME:166:38:06 07:08:45 31 (mir LOG :2716:79 2718:24 1.43 FDEPTH: 24 28 Towing dir: 2956 Wire out; Sorted: Kg Total catch: SPECIES Total	6.54 0.95 0.08 30.66 (PE: PT No:7 1) Purpose c Area code GearCond. Validity 150 m Spee CATCH/HO weight nu	12 39 2 PRC POSIT code: 1 code: 1 code: 2 code: 4 code: 32 CATCH UR 9 mbers	3.11 0.26 100.38 DJECT STATION LLONG W 1 0 0 0 1/HOUR: 0 0 F TOT, C	2289 :1239 1901 1625 SAMP
DATE:14/11/00 GEAR TY start stop duration TIME :06:38:06 07:08:45 31 (mir LOG :2716:79 2718:24 1.43 FDEPTH: 24 28 Towing dir: 2956 Wire out; Sorted: Kg Total catch; SPECIES Total	6.54 0.95 0.08 30.66 (PE: PT No:7 1) Purpose of GearCond. Validity 150 m Spee CATCH/HO weight nu	12 39 2 PRC POST code: 1 code: 1 code: 1 code: 2 code: 2 CATCH UR 9 mbers	JICT STATION SCHOOL STATION SCHOOL STATION SCHOOL STATION SCHOOL STATION	2289 1239 1901 1625 SAMP
DATE:14/11/00 GEAR TY BLEAT Stop duration TIME :06:38:06 07:08:45 31 (mir LOG :2716:79 2718:24 1.43 FDEPTH: 5 5 BDEPTH: 24 28 Towing dir: 2956 Wire out; Sorted: Kg Total catch: SPECIES Total DATE:14/11/00 GEAR TY BLEAT Stop duration THE :06:27 00:550 duration	6.54 0.95 0.08 30.66 (PE: PT No:7 1) Purpose c Area code GearCond. Validity 150 m Spee CATCH/HO weight nu	12 39 2 PRC POST code: 1 code: 1 code: 2 code: 2 code: 3 CATCP UR 9 mbers PRC POST	JICT STATION CONTRACT STATION CONTRACT STATION CONTRACT CONTRA	2289 1239 1901 1625 SAMP
DATE:14/11/00 GEAR TY start stop duration TIME :06:38:06 07:08:45 31 (mir LOG :2716.79 2718.24 1.43 FDEPTH: 5 5 BDEPTH: 24 28 Towing dir: 2956 Wire out: Sorted: Kg Total catch: SPECIES Total DATE:14/11/00 GEAR TY Btart stop duration TIME :08:26:07 08:55:01 30 (min LOG :2728.22 2729.86 1.64	6.54 0.95 0.08 30.66 (PE: PT No:7 1) Purpose c Area code GearCond. Validity 150 m Spee CATCH/HO weight nu PE: BT No:2) Purpose c Area code	12 39 2 Post code: 1 code: 1 code: 1 code: 1 code: 32 CATCH mbers POSIT code: 1 	JICT STATION Long W S MICT STATION Long W S S S S S S S S S S S S S	2289 1901 1625 SAMP 11240 1905 1634
DATE:14/11/00 GEAR TY start stop duration TIME :06:38:06 07:08:45 31 (mir LOG :2716:79 2718.24 1.43 FDEPTH: 5 5 BDEPTH: 24 28 Towing dir: 2950 Wire out; Sorted: Kg Total catch: SPECIES Total DATE:14/11/00 GEAR TY start stop duration TIME :08:26:07 08:55:01 30 (min LOG :2728.22 2729.86 1.64 FDEPTH: 59 50	6.54 0.95 0.08 30.66 (PE: PT No:7 1) Purpose c Area code GearCond. Validity 150 m Spee CATCH/HO weight nu PE: BT No:2) Purpose c Area code GearCond. Yalidity (Validity)	12 39 2 PRC POSIT code:	JICT STATION JOO.38 DJECT STATION LONG W S S S S S S S S S S S S S	2289 1901 1625 SAMP 11240 1905 1634
DATE:14/11/00 GEAR TY start stop duration TIME:16:38:06 07:08:45 31 (mir LOG :2716:79 2718.24 1.43 FDEPTH: 5 5 BDEPTH: 24 28 Towing dir: 2950 Wire out; Sorted: Kg Total catch: SPECIES Total DATE:14/11/00 GEAR TY start stop duration TIME:08:26:70 08:56:01 30 (min LOG :2728.22 2729.06 1.64 FDEPTH: 59 50 BDEPTH: 59 50 Towing dir: 1250 Wire out;	6.54 0.95 0.08 30.66 (PE: PT No:7 1) Purpose c Area code GearCond. Validity 150 m Spee CATCH/HO weight nu PE: BT No:2) Purpose c Area code GearCond. yalidity 200 m Spee	12 39 2 PRC POSIT Code: code: code: code: CATCI WR 9 PRC CATCI VIR 9 PRC CATCI I Societion CATCI I Societion CATCI I Societion CATCI I Societion CATCI I Societion CATCI I Societion CATCI I Societion CATCI I Societion CATCI I Societion CATCI I Societion CATCI I Societion CATCI I Societion CATCI I Societion CATCI I Societion CATCI I Societion I So	JICT STATION CONSIDERT STATION	2289 1901 1625 SAMP 1905 1634
DATE:14/11/00 GEAR TY start stop duration TIME:16:38:06 07:08:45 31 (mir LOG :2716:79 2718.24 1.43 FDEFTH: 5 5 BDEFTH: 5 5 BDEFTH: 24 28 Towing dir: 2950 Wire out; Sorted: Kg Total catch: SPECIES Total DATE:14/11/00 GEAR TY start stop duration TIME:08:26:70 08:55:01 30 (min LOG :2728.22 2729.06 1.64 FDEFTH: 59 50 BDEFTH: 59 50 Towing dir: 1250 Wire out; Sorted: 15 Kg Total catch:	6.54 0.95 0.08 30.66 (PE: PT No:7 1) Purpose c Area code GearCond. Validity 150 m Spee CATCH/HO weight nu PE: BT No:2) Purpose c Area code GearCond. yalidity 200 m Spee 14.92	12 39 2 PRC POSIT Code: code:	JICT STATION JDECT STATION Long W S SUBCT STATION Long W S S S S S S S S S S S S S	2289 1901 1625 SAMP 1240 1905 1634
DATE:14/11/00 GEAR TY start stop duration TIME:16:13:06 07:08:45 31 (mir LOG :2716.79 2718.24 1.43 FDEFTH: 5 5 BDEFTH: 5 5 BDEFTH: 24 28 Towing dir: 295e Wire out; Sorted: Kg Total catch: SPECIES Total DATE:14/11/00 GEAR TY start stop duration TIME:08:26:07 08:55:01 30 (min LOG :2728.22 2729.86 1.64 FDEFTH: 59 50 Towing dir: 125e Wire out; Sorted: 15 Kg Total catch:	6.54 0.95 0.08 30.66 (PE: PT No:7 1) Purpose c Area code GearCond. Validity 150 m Spee CATCH/HO weight nu PE: BT No:2) Purpose c Area code GearCond. Validity 200 m Spee 14.92	12 39 2 PRC POSIT code:	JICT STATION JECT STATION Long W S SUBCT STATION Long W S S S S S S S S S S S S S	2289 1901 1625 SAMP 1905 1634
DATE:14/11/00 GEAR TY start stop duration TIME:06:130:06 07:08:45 31 (mir LOG :2716:79 2718:24 1.43 FDEPTH: 5 5 BDEPTH: 24 28 Towing dir: 295e Wire out; Sorted: Kg Total catch: SPECIES Total DATE:14/11/00 GEAR TY start stop duration TIME:08:126:07:08:55:01 30 (min LOG :2728:22 2729:86 1.64 FDEPTH: 59 50 BDEPTH: 59 50 Towing dir: 125e Wire out; Sorted: 15 Kg Total catch: SPECIES	6.54 0.95 0.08 30.66 (PE: PT No:7 1) Purpose c Area code GearCond. Validity 150 m Spee CATCH/HO weight nu PE: BT No:2) Purpose c Area code GearCond. Validity 150 m Spee 14.92 CATCH/HO weight nu	12 39 2 PRC POSIT code:	JICT STATION JECT STATION Long W S SUBCT STATION Long W S S S S S S S S S S S S S	2289 1901 1625 SAMP 1905 1905 1634
DATE:14/11/00 GEAR TY start stop duration TIME:16:13:06 07:08:45 31 (mir LOG :2716.79 2718.24 1.43 FDEPTH: 5 5 BDEPTH: 5 5 BDEPTH: 24 28 Towing dir: 295e Wire out; Sorted: Kg Total catch: SPECIES Total DATE:14/11/00 GEAR TY start stop duration TIME:08:26:07 08:55:01 30 (min LOG :2728.22 2729.86 1.64 FDEPTH: 59 50 Towing dir: 125e Wire out; Sorted: 15 Kg Total catch: SPECIES Trachurus trecae Canogramma glaycos	6.54 0.95 0.08 30.66 (PE: PT No:7 1) Purpose c Area code GearCond. Validity 150 m Spee CATCH/HO weight nu PE: BT No:2) Purpose c Area code GearCond. Validity 200 m Speet 14.92 CATCH/HO weight nu 19.00 3.04	12 39 2 PRC POSIT Code: code:	A.11 0.26 100.38 DJECT STATION Long W 1 1/HOUR: 0 OF TOT, C UNECT STATION ION:Lat N Long W n*10 /HOUR: 29 OF TOT, C 63.67 10.19	2289 1901 1625 SAMP 1905 1634 9.84 SAMP 2290
DATE:14/11/00 GEAR TY start stop duration TIME:16:13:06 07:08:45 31 (mir LOG :2716.79 2718.24 1.43 FDEPTH: 5 5 BDEPTH: 5 5 BDEPTH: 24 28 Towing dir: 295e Wire out; Sorted: Kg Total catch: SPECIES Total DATE:14/11/00 GEAR TY start stop duration TIME:08:26:07 08:55:01 30 (min LOG :2728.22 2729.86 1.64 FDEPTH: 59 50 Towing dir: 125e Wire out; Sorted: 15 Kg Total catch: SPECIES Trachurus trecae Campogramma glaycos Loligo vulgaris Diplodus sp.	6.54 0.95 0.08 30.66 30.66 (PE: PT No:7 1) Purpose c Area code GearCond. Validity 150 m Spee CATCH/HO weight nu PE: BT No:2) Purpose c Area code GearCond. Validity 200 m Speet 14.92 CATCH/HO weight nu 19.00 3.04 2.96 1.60	12 39 2 PRC POSIT Code: code:	3.11 0.26 100.38 DJECT STATION Long W 1 1/HOUR: 0 OF TOT. C 0 F TOT. C 6 3.67 10.19 9.92 5.36	2289 1901 1625 SAMP 1905 1634 9.84 SAMP 2290
DATE:14/11/00 GEAR TY start stop duration TIME:16:13:06 07:08:45 31 (mir LOG :2716.79 2718.24 1.43 FDEPTH: 5 5 BDEPTH: 5 5 BDEPTH: 24 28 Towing dir: 295e Wire out; Sorted: Kg Total catch: SPECIES Total DATE:14/11/00 GEAR TY start stop duration TIME:08:26:07 08:55:01 30 (min LOG :2728.22 2729.86 1.64 FDEPTH: 59 50 Towing dir: 125e Wire out; Sorted: 15 Kg Total catch: SPECIES Trachurus trecae Campogramma glaycos Loligo vulgaris Diplodus sp. Decapterus rhonchus Socmber is poncius	6.54 0.95 0.08 30.66 30.66 (PE: PT No:7)) Purpose c Area code GearCond. Validity 150 m Spee CATCH/HO weight nu PE: BT No:2)) Purpose c Area code GearCond. Validity 200 m Speet 14.92 CATCH/HO weight nu 19.00 3.04 2.96 1.60 1.52 1.00	122 39 2 PRC POSIT code:	3.11 0.26 100.38 DJECT STATION FION:Lat N Long W 1 1/HOUR: 0 OF TOT. C 0 F TOT. C 63.67 10.19 9.92 5.36 5.09 3.11 0.26 100.38 100.40 100.100 100.101 100.1	2289 1901 1625 SAMP 1905 1634 9.84 SAMP 2290
Trachurus trecae Illex coindetii Total DATE:14/11/00 GEAR T Start stop duration TIME:06:30:60 07:00:42 1.43 FDEFTH: 5 5 BOEFTH: 24 28 Towing dir: 295% Wire out; Sorted: Kg Total catch; SPECIES Total DATE:14/11/00 GEAR TY start stop duration TIME:00:26:07 00:55:01 30 (min LOG :2728.22 2729.86 1.64 FDEFTH: 59 50 BDEFTH: 59 50 Towing dir: 125% Wire out; Sorted: 15 Kg Total catch; SPECIES Trachurus trecae Campogramma glaycos Loligo vulgaris Diplodus sp. Decapterus rhonchus Socmber Japonicus Pagellus bellottii	6.54 0.95 0.08 30.66 30.66 (PE: PT No:7)) Purpose c Area code GearCond. Validity 150 m Spee CATCH/HO weight nu PE: BT No:2)) Purpose c Area code GearCond. Validity 200 m Speet 14.92 CATCH/HO weight nu 19.00 3.04 2.96 1.60 1.52 1.00 0.72	122 39 2 PRC POSIT code:	A.11 0.26 100.38 DJECT STATION FION:LAT N Long W 1 1/HOUR: 0 OF TOT. C 0 OF TOT. C 63.67 10.19 9.92 5.36 5.09 3.35 2.41	2289 1901 1625 SAMP 1905 1634 9.84 SAMP 2290

		P	BOIECT STAT	TON: 1241
DATE:14/11/00 GEAR	TYPE: PT No:1	POS	ITION:Lat	N 1909
TIME :10:10:19 10:46:34 36 (m:	in) Purpose	code:	Long	W 1636
LOG :2739.29 2741.78 2.28 FDEPTH: 22 22	Area cod	le i	3	
BDEPTH: 67 67	Validity	coder		
Towing dir: 171¢ Wire out	t: 150 m Spe	ed: 42	kn*10	
Sorted: Kg Total catch	1:	CAT	CH/HOUR:	
SPECIES	CATCH/H	OUR	% OF TOT.	C SAMP
	wergine in	unuser a	_	
Total				
		PI	ROJECT STAT	ION:1242
DATE:14/11/00 GEAR T	TYPE: BT No:2	POS	ITION:Lat	N 1911
TIME :12:53:54 13:23:44 30 (mi	n) Purpose	code:	1 Long	W 1646
LOG :2758.65 2760.09 1.43 FDEPTH: 181 210	Area cod	1 9 nodeu	3	
BDEPTH: 181 210	Validity	coder		
Towing dir: 165ø Wire out	: 630 m Spe	ed: 30	kn*10	
Sorted: 16 Kg Total catch	357.24	CATO	H/HOUR:	714.48
SPECIES	CATCH/H	OUR	& OF TOT.	SAMP
Chlorophthalmus atlanticus	296.00	1856	41.43	
Merluccius senegalensis Scorpaena sp.	87.20	480	12.20	
Dentex macrophthalmus	56.00	200	7.84	
Synagrops microlepis	48.12	92 2680	6.73	2291
Pontinus kuhlii	28.00	1640	3.92	
Parapenaeus longirostris	14.40	1000	2.02	
Zenopsis conchifer	13.12	14	1.84	
Todaropsis eblanae Capros aper	12.00	94	1.68	
Zeus faber	5.20	20	0.73	
Trichiurus lepturus Citharus linguatula	4.04	120	0.57	
	4100	1.0	0.50	
Total	714.48		100.01	
		PR	OJECT STATI	ON:1243
DATE:14/11/00 GEAR T	YPE: PT No:7	POSI	TION:Lat	N 1927
TIME :18:59:58 19:30:30 31 (min	n) Purpose o	ode:	1	W 1047
LOG :2811.46 2813.18 1.71 FDEPTH: 5 5	Area code	1 codes	3	
BDEPTH: 21 19	Validity	code:		
Towing dir: 165¢ Wire out	: 150 m Spee	d: 34	kn*10	
Sorted: 50 Kg Total catch	: 233.58	CATC	H/HOUR:	452.09
SPECIES	CATCH/HC	UR	OF TOT. C	SAMP
Pomadasys incisus	233,65	mbers 987	51.68	
Diplodus puntazzo Stromateus fiatola	67.59	139	14.95	
Decapterus rhonchus	32.52	1057	7.19	
Sardinella maderensis Pagellus bellottii	18.00	37	3.98	2292
Sardinella aurita	8.83	46	1.95	2293
Scomberomorus tritor SHPSP01	8.13	2	1.80	
Loligo vulgaris	7.90	163	1.75	
Spondylicsoma cantharus	6.27	337	1.39	
Penaeus notialis	3.48	174	0.77	
Diplodus bellottii Capros aper	3.02	12	0.67	
metal -				
	452.10		100.00	
		PRO	JECT STATIC	N:1244
DATE:14/11/00 GEAR TY start stop duration	PE: PT No:7	POSIT	ION:Lat I	V 1930
TIME :20:36:46 20:55:41 19 (min) Purpose c	ode: 1	Long 1	4 1650
LOG :2822.06 2823.07 0.97 FDEPTH: 10 10	Area code	1 3	1	
BDEPTH: 35 28	Validity (roder		
Towing dir: 90¢ Wire out:	150 m Speed	1: 32 k	m*10	
Sorted: 22 Kg Total catch:	21.88	CATCH	HOUR:	69.09
SPECIES	CATCH/HOU	JR %	OF TOT. C	SAMP
Trachurus trecae	20.72 hur	859	29.99	
Sardinella aurita Sphyraena guachancho	18.44	47	26.69	2294
Decapterus rhonchus	5.05	25	7.31	
Sardinella maderensis Trichiurus lepturus	4.74	9	6.86	2295
Stromateus fiatola	3.16	3	4.57	
Spondyliosoma cantharus	2.34	6	3.39	
Loligo vulgaris	0.82	6	1.55	
Penaeus notialis Lagocephalus laevigatus	0.44	16	0.64	
Synchiropus phaeton	0.38	3	0.55	
Pomadasys incisus Brachydautorus	0.38	6	0.55	
Boops boops	0.32	38	0.46	
Engraulis encrasicolus	V		0.16	
Colone downald	0.19	25	0.36	
Selene dorsalis	0.19 0.03	25 13	0.36 0.28 0.04	

DATE:14/11/00 GE	AR TYPE: PT No:	PRC 3 POSIT	JECT STAT	N 1929
TIME 121:33:33 22:03:29 30	(min) Purpose	code: 1	Long	W 1649
FDEPTH: 15 15	Area co GearCon	de : 3 d. code:		
BDEPTH: 29 31	Validit	y code:		
Towing dir: 155¢ Wire	out: 150 m Sp	eed: 43 k	n*10	
Sorted: 59 Kg Total co	atch: 98.17	CATCH	/HOUR 1	196.34
SPECIES	CATCH/	HOUR &	OF TOT.	C SAMP
Sardinella maderensis	weight 1	numbers	22.10	0000
Trachurus trecae	51.20	1764	26.08	2296
Stromateus fiatola Decapterus rhonchus	29.20	22	14.87	
Trichiurus lepturus	9.60	20	4.89	2297
Pomadasys incisus Engraulis engrasicolus	7.60	28	3.87	
Loligo vulgaris	1.26	928	2.93	
Sphyraena sphyraena	1.12	8	0.57	
Brachydeuterus auritus Juv.	0.88	4	0.45	
Pagellus acarne	0.64	8	0.33	
Boops boops	0.56	76	0.29	
Pagellus bellottii	0.48	4	0.24	
Sardinella maderensis - Juv.	0.40	24	0.20	2299
Sepia officinalis hierredda	0.04	4	0.02	
Total	196.34		99.99	
DATE: 15 /11 /00		PRO	JECT STAT	ION:1246
start stop durati	R TYPE: PT No:4 on	POSIT	:ON:Lat Long	N 1941 W 1658
TIME :03:39:23 04:09:02 30 LOG :2886.70 2888.43 2.00	(min) Purpose	code: 1		2000
FDEPTH: 10 10	GearCond	e 13.		
BDEPTH: 61 72	Validity	code:		
Towing dir! 304¢ Wire	out: 150 m Spe	ed: 40 kr	*10	
Sorted: 36 Kg Total ca	tch: 941.30	CATCH/	HOUR: 1	882.60
SPECIES	CATCH/H	OUR %	OF TOT. C	SAMP
Trichiurus lepturus	weight n 1840.00	umbers 3650	07 74	
Trachurus trecae	19.60	20	1.04	2302
Sardinella aurita	15.24	40	0.81	2300
Decapterus rhonchus	0.60	2	0.03	2301
Total	1882.60		100.00	
Dame 15/11/00		PROJ	ECT STATI	ON:1247
start stop duratio	TYPE: PT No:4	POSITI	DN:Lat	N 1948 W 1710
TIME 105:38:09 06:09:12 31 1	min) Purpose o	rode: 1		
FDEPTH: 5 5	GearCond	code:		
BDEPTH: 79 51	Validity	code:		
Towing dir: 3100 Wire c	ut: 150 m Spee	d: 30 kn	*10	
Sorted: 27 Kg Total cat	ch: 95.19	CATCH/	IOUR :	184.24
SPECIES	CATCH/HC	UR %	OF TOT. C	SAMP
Trichiurus lostuma	weight nu	mbers		omit
Trachurus trecae	164.90	2253	89.50	2202
Campogramma glaycos	8.36	8	4.54	2303
Sepia orbignyana	0.62	31	0.34	
Illex coindetii	0.31	31	0.17	
Trachurus trecae, juvenile	0.08	8	0.04	2204
Total	101.02	10	0.01	2304
Iotal	184,23		100.00	
DATE:15/11/00 GEAR	TYPE: BT No:2	POSITIC	N:Lat N	V:1248
TIME :11:54:59 12:24:37 30 (1	n nin) Purpose c	oder 2	Long W	1725
LOG 12953.09 2954.35 0.96	Area code	: 3		
BDEPTH: 50 50	GearCond.	code:		
Towing dir: 170¢ Wire of	at: 200 m Speed	d: 30 kn*	10	
Sorted: 71 Kg Total cate	ch: 460.73	CATCH/H	OUR: 9	21.46
SPECIES	CATCH/HO	IR & O	F TYOR O	anus.
Mradurus krosse	weight nur	abers 8 O	F TOP, C	SAMP
Scomber scombrus	845.00	8450	91.70	2305
Loligo vulgaris	29.52	162	3.78	2306
Campogramma glavcos	6.08	4	0.66	
Sepia officinalis hierredda	1.50	4	0.28	
Cepola macrophthalma	0.80	2	0.09	
Zeus faber	0.76	8	0.08	

921.46

99.99

Total

DATE: 15/11/00 GEA	P TYPE, PT No.	PR	DJECT STA	TION: 1249
start stop durati	on	4 PO31	Long	W 1734
TIME :20:32:07 21:03:45 32	(min) Purpose	code:	1	
LOG :3035.76 3037.54 1.78	Area co	de 1	3	
BDEPTH: 73 81	GearCon	d.code:		
Towing dir: 270ø Wire	out: 150 m Sp	eed: 30 1	m*10	
Sorted: 140 Va met-1				
Softed: 140 kg Total ca	tchi 4957.82	CATC	I/HOUR :	9295.91
SPECIES	CATCH/I weight	HOUR N	OF TOT.	C SAMP
Sardina pilchardus	8889.56	62938	95.63	2308
Scomber japonicus	202.13	394	2.17	2307
Auxis thazard	48 56	66	0.82	
Trachurus trecae	26.74	45	0.29	2309
Trichiurus lepturus	17.33	24	0.19	
MYCTOPHIDAE	11.81	525	0.13	
Argentina sphyraena	5.25	66	0.06	
Sarda sarda	5.10	6	0.05	
Selene dorsalia	4.69	4	0.05	
Lagocephalus lagocephalus	0.75	2	0.02	
Total	9295.93		100.00	
	2420100		100.00	
DATE:16/11/00 GEAR	TYPE: PT No:6	PRO	JECT STAT ION:Lat	ION:1250 N 2026
TIME :00:44:59 01:14:44 20	n min) Burner	anda :	Long	W 1707
LOG :3071.64 3073.18 1.53	Area cod	code: 2		
FDEPTH: 0 0	GearCond	.code:		
BDEPTH: 25 26 Towing dir: 7g Wire o	Validity	code:		
Control 5 Mg match and	dei 150 m spe	ear 40 k	n-10	in de la compañía de
Softedi Sing Total Cat	en: 73.13	CATCH	HOUR	146.26
SPECIES	CATCH/H	OUR %	OF TOT.	SAMP
Scomberomorus tritor	125.72	umbers 40	85.96	
Decapterus rhonchus	20.00	486	13.67	2310
Loligo vulgaris Sardinella aurita - Juneniles	0.38	6	0.26	
Sardinerra adrica - Suvenires	0.16	6	0.11	
Total	146.26		100.00	
DATE:16/11/00 GEAR	TYPE: PT No:6	PRO	ECT STATI	ON:1251 N 2030
start stop duration	1		Long	W 1712
LOG :3081.86 3082.31 0.45	Area code	rode: 1		
FDEPTH: 5 5	GearCond.	code:		
BDEPTH: 33 33	Validity	code:		
lowing dir, 500 wire of	ter 150 m spee	a: 40 kr	*10	
Sorted: 44 Kg Total cate	h: 20000.00	CATCH/	HOUR: 150	000.00
SPECIES	CATCH/HC	UR %	OF TOT. C	SAMP
Sardina pilchardus	weight nu	mbers 189573	12.22	0.044
		09333	33.33	2311
Total	50000.00		33.33	
DATE:16/11/00 GEAR	TYPE: PT No:4	PROJ	ECT STATI	ON:1252
start stop duration			Long	W 1729
TIME :05:01:44 05:31:04 29 (m	in) Purpose c	ode: 2		
FDEPTH: 10 10	GearCord	code:		
BDEPTH: 61 62	Validity	coder		
Towing dir: 270¢ Wire ou	t: 150 m Spee	d: 40 kn	*10	
Sorted: Kg Total cate	h: 8.52	CATCH/	HOUR	17.63
SPECIES	CATCH/HO	UR &	OF TOT. C	SAMP
Tichiurus lepturas	weight nu	mbers		
Trachurus trecae	9.52	14	54.00	
agocephalus laevigatus	1.86	10	10.55	
Sepia officinalis hierredda		37	4.93	
seneria sphyraena	0.87			
oligo vulgaris	0.87 0.62	155	3.52	
oligo vulgaris Gardina pilchardus	0.87 0.62 0.41 0.27	155 60 6	3.52 2.33 1.53	
oligo vulgaris Ardina pilchardus Frachurus trecae, juvenile	0.87 0.62 0.41 0.27 0.21	155 60 6 145	3.52 2.33 1.53 1.19	
oligo vulgaris Sardina pilchardus Trachurus trecae, juvenile Alloteuthis africana Felene dorsalis	0.87 0.62 0.41 0.27 0.21 0.08	155 60 145 4	3.52 2.33 1.53 1.19 0.45	
oligo vulgaris Sardina pilchardus Trachurus trecae, juvenile Uloteuthis africana Selene dorsalis 'agellus bellottii	$\begin{array}{c} 0.87\\ 0.62\\ 0.41\\ 0.27\\ 0.21\\ 0.08\\ 0.04\\ 0.02 \end{array}$	155 60 6 145 4 10 2	3.52 2.33 1.53 1.19 0.45 0.23 0.11	
oligo vulgaris Sardina pilchardus Trachurus trecae, juvenile Vloteuthis africana Selene dorsalis Yagellus bellottii Yotal	0,87 0,62 0,41 0,27 0,21 0,08 0,04 0,02	155 60 6 145 4 10 2	3.52 2.33 1.53 1.19 0.45 0.23 0.11	

		PROJECT ST	ATION:1253
DATE: 16/11/00 GEAR '	TYPE: BT No:2	POSITION:Lat	N 2040
start stop duration		Lon	g W 1745
TIME :08:36:03 09:15:10 39 (m.	in) Purpose co	ode: 1	
LOG :3128.64 3130.49 1.72	Area code	: 3	
FDEPTH: 380 322	GearCond.c	oder	
BDEPTH: 380 322	Validity o	rode:	
Towing dir: 180¢ Wire ou	t:1050 m Speed	l: 29 kn*10	
Sorted: 31 Kg Total catch	1044.20	CATCH/HOUR :	1606.46
SPECIES	CATCH/HOL	R & OF TOT	C SAMP
	weight num	bers	
Pontinus kuhlii	836.92 1	3826 52.	10
Lophius budegassa	237.48	52 14.	78
MYCTOPHIDAE	167.38 3	3058 10.	42
Epigonus sp.	88.92	994 5.	54
Galeus melastomus	73.23	471 4.	56
Coelorinchus coelorhincus	37.66	523 2.	34
Todarodes sagittatus	35.57	52 2.	21
TRHGE01	23.02	837 1.	43
Parapenaeus longirostris	20.92	1308 1.	30
Tetragonurus atlanticus	18.83	52 1.	17
CYNOGLOSSIDAE	10.46	105 0.	65
TRITR02	10.46	157 0.	65
Capros aper	10.46	52 0,	55
Nezumia aequalis	10.46	418 0.	65
Synagrops microlepis	8.37	52 0.	52
Aristeus antennatus	6.28	1831 0.1	39
Plesionika heterocarpus	5.23	209 0.	33
Octopus vulgaris	4.18	52 0.1	26
Palinurus mauritanicus	0.62	2 0.0	04
Total	1606.45	99.1	99

 PROJECT STATION:1254

 DATE:16/11/00
 GEAR TYPE: PT No.4
 POSITION:Lat N 2040

 start
 stop duration
 Long W 1712

 TIME :12:54:10 3:24:00 30 (min) Purpose code: 1
 Long W 1712

 LOG :3164.88
 3164.88
 Area code : 3

 FDEFTH: 5
 GearCond.code:

 BDEPTH: 40
 40
 Validity code:

 Towing dir: 270e Wire out:3166 m Speed:200 kn*10
 Sorted: 65 kn

Sorted: 65 Kg Total catch: 4986.42 CATCH/HOUR: 9972.84

SPECIES	CATCH	/HOUR	& OF TOT. C	SAMP
Sardina pilchardus Engraulis encrasicolus	weight 9726.60 231.00	numbers 230230 22946	97.53	2313
Loligo vulgaris Trachurus trecae, juvenile	7.80 6.16	10 6930	0.08	
Trichiurus lepturus	1.28	2	0.01	
Iocar	9972.84		100.00	

Annex II Instruments and fishing gear used

The Simrad EK-500, 38kHz scientific echo sounder was used during the survey for fish abundance estimation. The Bergen Echo Integrator system (BEI) logging the echogram raw data from the sounder, was 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 38kHz echo sounder where as follows:

Tranceiver-1 menu (38 kHz lowering keel)

Transducer depth	5.5 m
Absorbtion coeff.	10 dB/km
Pulse length	medium (1ms)
Bandwidth	wide
Max power	2000 Watt
2-way beam angle	-21.0 dB
SV transducer gain	27.39 dB
TS transducer gain	27.52 dB
Angle sensitivity	21.9
3 dB beamwidth	6.8 dg
Alongship offset	-0.03 "
Athwardship offset	0.06 "

Display menu

1
10 m
10 m
20 log R
-60 dB

Printer- menu

Echogram	1
Range	0 - 50 or $0 - 100$ and $100 - 350$ m
TVG	20 log R

Bottom detection menu Minimum level -40 dB

Hydrography

Conductivity, temperature, density and dissolved oxygen were sampled at CTD stations with Seabird 911 + CTD sonde. The salinity is computed from the data on conductivity by the software retrieving data from the sensors.

Fishing gear

The vessel has two different sized "Åkrahamn" pelagic trawls and one "Gisund super bottom trawl". For all trawls, the Tyborøn, $7.8m^2(1670kg)$ trawl doors were used. Complete drawings of the trawls used are included.

Annex III Pooled length distribution by species and regions















Annex III Continued





Annex IV Estimates of numbers and weight by length.

Mauritania 2000

	Curantena au	ina				
	N (millions)		Biomass	(tonnes)		
Length	St.Louis-	Cape Timiris	- TOTAL	St.Louis-	ouis- Cape Timiris- TOT	
cm	Cape Timiris	Cape Blanc		Cape Timiris	Cape Blanc	
5						
6						
7						
8						
9						
10						
11						
12						
13	2 051		2 051	48		19
14	4 102		4 102	120		40
15	8 204		8 204	293		202
16	1 974		1 974			293
17	3 948		3 948	203		000
18	3 948		3 948	200		203
19	4 683		4 683	240		240
20	2 709		2 709			333
21	8 862		8 862	224		224
22	18 458		18 459	045		845
23	82 062		82 062	10 2018		2 018
24	71 808		71 909	10 224		10 224
25	45 027		45.027	7 107		10 138
26	28 281		29 291	7 167		/ 16/
27	46 381		20 201	5 052		5 052
28	72 433	7 467	40 301	9 260	1 0 7 0	9 260
29	46 653	7 407	79 900	16 097	1 659	17 756
30	47 172		40 653	11 498		11 498
31	78 105	7 467	4/ 1/2	12 849		12 849
32	182 476	/ 40/	85 572	23 436	2 240	25 676
33	140 140	7 407	182 476	60 135		60 135
34	149 140	/ 46/	156 606	53 827	2 695	56 522
25	64 692	14 933	159 228	56 882	5 887	62 769
26	17 454		64 683	27 781		27 781
27	1/ 451	11000	17 451	8 146		8 146
37	14 482	14 933	29 415	7 332	7 560	14 892
38		7 467	7 467			
39						
IUTAL	1 117 455	37 333	1 154 788	324 235	20 041	344 277

Sardinella aurita

Mauritania 2000

	N (millions)		Biomass (tonnes)			
Length	St. Louis-	Cape Timiris-	TOTAL	St. Louis-	Cape Timiris	TOTAL
cm	Cape Timiris	Cape Blanc		Cape Timiris	Cape Blanc	
5						
6						
7						
8						
9						
10	17 631		17 631	196		196
11	52 892		52 892	772		772
12	18 289		18 289	343		3/3
13	57 433		57 433	1 357		1 357
14	106 727		106 727	3 124		3 124
15	50 266		50 266	1 797		1 707
16	20 678		20 678	892		902
17	18 426		18 426	948		0.10
18	5 923		5 923	360		940
19	658		658	47		300
20						4/
21	6 859		6 859	654		GEA
22	658	14 933	15 591	72	1 622	1 705
23	2 632	74 666	77 298	328	9 302	0.620
24	14 597	37 333	51 930	2 061	5 271	7 221
25	26 125	22 400	48 525	4 159	3 566	7 331
26	65 299		65 299	11 666	3 500	11 666
27	80 801		80 801	16 132		16 100
28	137 996		137 996	30 667		20 667
29	161 271		161 271	39 746		30 667
30	265 755		265 755	72 386		39 746
31	206 906		206 906	62 083		72 386
32	244 224		244 224	80 484		62 083
33	201 839		201 839	72 847		80 484
34	219 026		219 026	86 342		72 847
35	74 506		74 506	32 000		86 342
36	52 201		52 201	24 368		32 000
37	15 585		15 585	7 800		24 368
38	5 195		5 195	7 890		7 890
39			0 100	2 040		2 846
40						
TOTAL	2 057 419	149 332	2 206 750	556 566	19 772	576 337

Sardinella maderensis

Mauritania 2000

	Traditarus tree	uae		and the second se		
	N (millions)		Biomass (tonnes)			
Length	St. Louis-	Cape Timiris-	TOTAL	St. Louis-	Cape Timiris-	TOTAL
cm	Cape Timiris	Cape Blanc		Cape Timiris	Cape Blanc	
9						
10	5 694		5 694	63		63
11	43 361		43 361	633		633
12	379 922		379 922	7 124		7 124
13	754 889		754 889	17 830		17 830
14	349 353		349 353	10 224		10 224
15	45 462		45 462	1 625		1 625
16	16 410		16 410	708		708
17	3 995		3 995	206		206
18	9 680		9 680	588		588
19	19 935	303 463	323 397	1 419	21 601	23 020
20	20 985	576 579	597 564	1 736	47 686	10 120
21	18 938	667 618	686 556	1 807	63 696	65 502
22	24 631	333 809	358 440	2 693	36 502	20 105
23	6 034		6 034	752	50 502	750
24	2 990		2 990	422		102
25	3 399		3 399	5/1		422
26	7 367		7 367	1 316		1 010
27	3 968	30 346	34 315	702	6.050	0.051
28		00040	04010	192	0 059	6 851
29	3 968		3 968	079		070
30	3 968		3 968	1 091		978
31	2 402		2 402	701		1 081
32	12 804		12 804	4 220		/21
33	2 402		2 402	4 220		4 220
34	7 333		7 333	2 901		0.001
35	49 907		10 007	2 091		2 891
36	106 539		106 520	40 725		21 435
37	149 964		149.964	49735		49 735
38	207 456		207 456	112 650		75 919
39	175 751		175 751	102 092		100 000
40	80 476		80.476	TU3 983		103 983
41	53 456		53 456	31 322		51 322
42	30 534		30 524	30 679		36 679
43	3 728		3 7 2 9	22 502		22 502
44	2 402	1 911 817	1 914 219	2 940		2 946
45	3 728	1011017	2 7 2 9	2 032		2 032
46	0720		5720	3 371		3 3/1
47						
48						
49	3 728		2 700	1.044		1.0.11
50	5720		5728	4 341		4 341
TOTAL	1 700 707	1 011 015	2 711 010	E 40 450		
IOTAL	1133131	1911015	3711612	549 152	175 544	724 697

Trachurus trecae

Mauritania 2000

Deca	pterus	SD.
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	N (millions)		Biomass (tonnes)			
Length	St. Louis-	Cape Timiris-	TOTAL	St. Louis-	Cape Timiris-	TOTAL
cm	Cape Timiris	Cape Blanc		Cape Timiris	Cape Blanc	
5						
6						
7						
8						
9						
10						
11						
12	1 720		1 720	32		32
13	860		860	20		20
14	7 739		7 739	226		226
15	8 599		8 599	307		307
16	6 019		6 019	260		260
17	860		860	44		44
18						
19						
20	860		860	71		71
21	860		860	82		82
22						02
23	997		997	124		124
24	8 889		8 889	1 255		1 255
25	16 388		16 388	2 609		2 609
26	23 016		23 016	4 112		4 112
27	11 338		11 338	2 264		2 264
28	8 274		8 274	1 839		1 839
29	10 723		10 723	2 643		2 643
30	3 707		3 707	1 010		1 010
31						1010
32	1 857		1 857	612		612
33						012
34	1 720		1 720	678		678
35						0/0
36						
38						
TOTAL	114 424		114 424	18 188		18 188

Mauritania 2000

Sardina pilchardus

	N	l (millions)	Biomass	(tonnes)
Length	Cape Timiris-	TOTAL	Cape Timiris-	TOTAL
cm	Cape Blanc		Cape Blanc	
9				
10	32 947	32 947	381	381
11	32 947	32 947	501	501
12	98 841	98 841	1 930	1 930
13	860 531	860 531	21 172	21 172
14	2 643 583	2 643 583	80 593	80 593
15	1 354 738	1 354 738	50 449	50 449
16	577 918	577 918	25 961	25 961
17	1 068 708	1 068 708	57 276	57 276
18	737 040	737 040	46 667	46 667
19	1 179 264	1 179 264	87 441	87 441
20	626 484	626 484	53 972	53 972
21	526 234	526 234	52 299	52 299
22	765 876	765 876	87 238	87 238
23	781 075	781 075	101 367	101 367
24	330 107	330 107	48 546	48 546
25	62 877	62 877	10 426	10 426
26				
TOTAL	11 679 172	11 679 172	726 220	726 220

NORAD-FAO/ PROJECT GCP/INT/730/NOR



SURVEY OF THE PELAGIC FISH RESOURCES OFF NORTH WEST AFRICA

Part III

MOROCCO

18 November - 19 December 2000

Institut National de Recherche Halieutique Casablanca, Morocco Institute of Marine Research Bergen, Norway

CRUISE REPORT "DR FRIDTJOF NANSEN"

SURVEY OF THE PELAGIC FISH RESOURCES NORTH WEST AFRICA

Part III

MOROCCO

18 November-19 December 2000

by

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Institute of Marine Research Bergen, 2000
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1.1 Survey objectives

The specific objectives for the survey in Morocco were:

- To map the distribution and estimate the biomass of the main small pelagic fish species using hydroacoustic methods. The species of interest were: sardine *Sardina pilchardus*, sardinellas *Sardinella aurita*, *S. maderensis*, chub mackerel *Scomber japonicus*, horse mackerel *Trachurus trachurus*, *T. trecae*, and anchovy *Engraulis encrasicolus*.
- To identify acoustic targets by midwater and bottom trawl sampling and process the catches by recording weight and number by species. For the target species, length frequencies are taken to describe the size distribution.
- To sample standard hydrographical transects for temperature, salinity and oxygen off Cape Blanc, Dakhla, Cape Bojador, Cape Juby, Cape Dra and Cape Ghir.

The time allocated for this part of the survey was 25 days.

1.2 Participation

Members of the scientific teams were:

Institut National de Recherche Halieutique, Morocco:

Mostafa CHBANI IDRISSI (18.11-04.12), Hassan MOUSTAHFID, Hamid LCHFIRI, Lahcen ABOUABDELLAH, Hakim MESFIOUI and Said SEMMOUMI.

Centre National de Recherches Océanographiques et des Peches, Mauritania: Mamadou SALL.

Institute of Marine Research, Norway(IMR):

Tore STRØMME (cruise leader), Marek OSTROWSKI (4.12-19.12), Oddgeir ALVHEIM, Tore MØRK, and Frode WILHEMLSEN.

Special team on SODAPS sonar development (separate objective) 18.11-4.12. From IMR: John DALEN, Bjørn TOTLAND, Ingvald SVELLINGEN, Per Erik NORDBØ

1.3 Narrative

Figure 1 shows the cruise track and the stations worked during the survey. Departure was from Nouakchott on November 18, steaming north to Cape Blanc. During the preceding survey in Mauritania aggregations of sardine was registered south of Cape Blanc with good registrations in the border area. The Morocco survey grid started south of these registrations in order to capture them as one structure. The survey proceeded northwards with an acoustic sampling grid with a transect distance 10 NM apart, covering the shelf and slope down until about 200 m bottom depth. The coastal waters north of Dakhla were resurveyed with a dense grid for a more detailed mapping of the structure of sardines. North of Cape Bojador the survey was interrupted with a call on Las Palmas 2-4 December for refuelling and disembarkment of scientists. The survey work in Moroccan waters was resumed north of Cape Bojador on the early morning of 5 December, continuing northwards. The northern limit of the survey, at Cape Cantin, was reached on 14 December. The vessel called on Agadir 15-16 December for meetings and disembarkment of Moroccan scientist. Finalisation of the report was done during steaming to Las Palmas 16-18 December. The weather gave very favourable working conditions throughout the survey period.



Figure 1a. Course track with fishing and hydrographic stations, Cape Blanc to Cape Juby. Depth contours at 20 m, 50 m, 100 m, 200 m and 500 m are indicated.



Figure 1b. Course track with fishing and hydrographic stations, Cape Juby to Cape Cantin. Depth contours as in Fig. 1a.

1.4 Methods

The cruise followed the standard methods established for the regional surveys:

Environmental Data

Meteorological observations including wind direction and speed, air temperature, global radiation and sea surface temperature (SST) were automatically logged and recorded with position and bottom depth every nautical mile sailed using an Aanderaa meteorological station. CTD-stations were recorded at the standard hydrographic transects. A Seabird 911+ CTD probe was used to obtain vertical profiles of temperature, salinity and oxygen. Real time plotting and logging was done using the customised Seabird Seasave software installed on a PC. The profiles were in general taken down to a few meters above the bottom. In deep stations, however, data logging was interrupted at 500 m. Niskin bottles were triggered for water samples, one near the surface and one near the bottom, in order to calibrate the oxygen and salinity sensors. The water samples were analysed for dissolved oxygen using the Winkler method, and for salinity using a Guildline Portasal salinometer mod. 8410.

Biological Sampling

Biological sampling of the fish was carried out using trawls. A pelagic trawl with floats was often used. A smaller pelagic trawl or the bottom trawl with floats was used for sampling the pelagic fish in very shallow waters (depth less than 25 m). Annex II gives a description of the instruments and the fishing gear used. All catches were sampled for composition by weight and numbers of each species caught. Species identification was based on the FAO Species Guides. Length frequency distributions, by total fish length in cm, of the selected target species were taken in all the stations where they were present. The complete records of fishing stations are shown in Annex I.

The following target groups were used for Morocco:

- 1) Sardine (European pilchard Sardina pilchardus),
- 2) Sardinellas (flat sardinella Sardinella maderensis and round sardinella S. aurita),
- 3) Anchovy (European anchovy Engraulis encrasicolus),
- 4) Horse mackerels (Atlantic horse mackerel *Trachurus trachurus*, Cunene horse mackerel *T. trecae* and also including false scad *Decapterus rhonchus*),
- 5) Mackerels (chub mackerel *Scomber japonicus*), In the records from the BEI system, this group is labelled PEL1 (in Moroccan waters only).
- 6) Other pelagic scombrids, carangids and associated species (such as *Auxis* sp., *Caranx* sp. and largehead hairtail *Trichiurus*), BEI group PEL2
- 7) Other demersal species (such as Sparidae, Haemulidae and Merluccidae).

Acoustic Sampling

A SIMRAD EK500 Echosounder was used and the echo-grams were stored on both paper and files. The acoustic biomass estimates were based on the integration technique. The Bergen Integrator (BEI) was used for analysis and allocation of the integrated s_A -values (average area back scattering coefficient in m²/NM) to the individual specified target groups by 5 NM intervals. The BEI system does not underestimate dense schools and schools close to the bottom as some times may have happened with the EK500 Integrator used in the 1992 surveys. The splitting and allocation of the integrator outputs (s_A -values) was based on a combination of a visual scrutiny of the behaviour pattern as deduced from echo diagrams, the BEI analysis, and the catch compositions.

In cases where the target category of fish contains more than one species (sardinellas and horse mackerels), the mean s_A - value allocated to the category is divided between the species in the same ratio as their relative contribution to the mean back scattering strength in the length frequency samples.

The following target strength (TS) function was applied to convert allocated s_A -values (average integrator value, or area back scattering coefficient for a given species or group of species in a specified area) to number of fish:

$$TS = 20 \log L - 72 \, dB \tag{1}$$

which can be converted (see Toresen *et al.* 1998 for details) to the area form (scattering cross sections of acoustic targets):

$$C_{Fi} = 1.26 \cdot 10^6 \cdot L_i^{-2} \tag{2}$$

where L_i is total length in 1 cm length group *i* and C_{Fi} (m⁻²) is the reciprocal back scattering cross section, or so-called fish conversion factor. In order to split and convert the allocated s_A-values (m²/NM²) to fish densities (numbers per length group per NM²), the following formula was used:

$$\rho_i = s_A \cdot \frac{p_i}{\sum_{i=1}^n \frac{p_i}{C_{Fi}}}$$
(3)

where

 ρ_i = density (n/NM²) of fish in length group *i*

$$s_A =$$
 mean integrator value (in /14W)
 $p_i =$ proportion of fish in length group i
 $\sum_{i=1}^{n} \frac{p_i}{C_{Fi}} =$ the relative back scattering cross section (m²) of the length frequency
sample of the target species, and

 C_{Fi} = reciprocal back scattering cross section (σ_{bs}^{-1}) of a fish in length group *i*

For TS= 20log L- be 72 the formula can further simplified into:

$$\rho_i = 1261217 \cdot \frac{n_i}{s_A \sum_{i=\min}^{\max} n_i l_i^2}$$
(4)

where $s_A =$ mean integrator value of a species within an aggregation area, in m²/NM² $n_i =$ frequency count of length group *i* in a pooled representative sample from the distribution area.

 l_i = mid length of fish in length group *i*.

The constant 1261217 incorporates the offset constant -72 in
equation (1). For other TS relationships the equation constant
becomes as in box. The table is presented to facilitate a
recalculation in case more accurate TS measurements are provided
in the future:

Using equation (4), the pooled length distribution is used together
with the mean s _A -value to calculate the density by length groups for
each observed area with fish aggregations. The total number, by
length groups, in an area is obtained by multiplying the densities
with the distribution area. Areas were calculated on the maps by
using a digital planimeter (Tamaya Planix 7).

The number of fish were converted to biomass by length group using the estimated weight at length from the length-weight relationship:

$$\overline{w} = \frac{cond}{100} * L^3 \tag{3}$$

TS

constant

-74

-73

-72

-71

-70

-69

-68

Equation

constant

1998895

1587779

1261217

1001821

795774

632106

502099

The specific condition factors obtained from the samples and applied for this survey were: 0.82 for sardine, 0.94 for *Sardinella aurita*, 0.97 for *S. maderensis*, 0.54 for *Engraulis encrasicolus* and 0.84 for horse mackerel and chub mackerel.

Finally the total biomass estimate is obtained by summing the biomass by length group and areas within each sector of the survey.

Equations (1), (2) and (3) show that the conversion from s_A -value to number of fish is dependent on the length composition of the fish. In general there are many problems associated with getting representative length distributions when the various size classes mix with varying proportions between neighbouring stations. When the size classes are well and homogenously mixed in an area, the various length distributions are pooled together with equal importance. In areas where fish sizegroups are well segregated, separate estimates are made for each group. Otherwise, when the size distribution varies from sample to sample, a weighting factor is applied that takes into account the density at the location. In most cases, the mean acoustic density at the location of the sample is the most representative index of this fish density.

For the estimation of the biomass of target group 3) carangids and associated species, an overall average length of 23 cm and a condition factor of 0.88 (to calculate mean weight of this length group) were applied.

A systematic approach to a) produce pooled length distributions of a target species for use in the above equation and b) calculate the biomass estimates for a region, are obtained through the following procedure:

- Each trawl station gets an integrator value as a density index for the sampling site.
- Representative length distributions are selected from all the collected samples of a fish aggregation.
- The mean back scattering strength of a fish in each of these length frequency distributions is calculated.
- The selected length distributions are then pooled using the ratio between the allocated s_A value and the mean back scattering strength as the weighting factor. (If the size distribution is geographically uniform the three steps mentioned above can be skipped and the samples are pooled together with equal importance.)
- The pooled length distribution is used together with the mean s_A value to calculate the biomass in numbers by length groups, for each area in the map, using formula (4) above. Numbers are converted to weight using the condition factor of the species. This can be calculated from the length samples where the total weight of the sample is recorded, or from individual biological samples.
- Biomass is calculated as the product of the density and the area of the aggregation, and finally the area-related biomass values in a region are summed together.

The necessary calculations are done in spreadsheets after the scientist has completed the two first steps in the above list manually.

All data on fishing stations and fish length sampling were made available to the participants from the local research institutes on diskettes.

CHAPTER 2 SURVEY RESULTS

2.1 Weather conditions and hydrography

Wind conditions

The continental shelf off Morocco is located in the region of the Trade winds, which drive the upwelling along the coast. During winter season, the strong and steady equatorialward winds are persistent off the southern Morocco, between Cape Blanc and Cape Bojador. In contrast, wind conditions are variable off the central Morocco during this period, whereby spells of short-duration wind events are interleaved with periods of calm weather.

The wind conditions recorded during the 2000 winter survey resemble well the average seasonal pattern. This is demonstrated in Figures 2a and 2b, which depict distribution of wind vectors recorded along the survey track. The features seen on these figures are briefly summarized below in terms of average wind conditions along the main coastal regions.

Cape Blanc to Dakhla, Figure 2a. Steady winds from NNE with average speed of 18.2 knots (9.4 m/s); maximum velocities reaching 29.8 knots (15.3 m/s).

Dakhla to Cape Bojador. Average wind speed in this region was 14.8 knots (7.6 m/s). Dominant direction NNE, with the exception of few transects located north of Dakhla near latitude 24°40'N, where a weak wind (2 m/s) from SEE was recorded.

Cape Bojador to Cape Juby. Average wind speed in this region decreased to 9.0 knots (4.6 m/s), with the direction turning towards NE.

Cape Juby to Tan Tan, Figure 2b. A major wind reversal was observed in this region. The wind was blowing offshore, from SSE, with the mean velocity of 13.5 knots (7 m/s).

<u>Tan Tan to Sidi Ifini</u>. Average wind speed: 11.8 knots (6.1 m/s), wind direction has returned to the dominant, upwelling favourable, NNE direction.

<u>Sidi Ifini to Cape Cantin</u>. Wind speed and direction were variable in this region. Two stronger winds events, each lasting 24 hours, were recorded: (1) between Agadir and Cape Ghir, and (2) off Cape Sim. The characteristic feature of the Cape Ghir event, Figure 2b, was the constant wind speed (>15 knots) accompanied by a gradual change in the direction from N to SEE, as the survey track was approaching the coastline. Such variability is probably attributable to the local and diurnal disturbances of the large-scale wind field in the presence of the nearby Atlas Mountains.



Figure 2a Wind conditions along the survey track 19 November - 6 December, Cape Blanc to Cape Juby. Depth contours as in Fig. 1a.



Figure 2b Wind conditions along the survey track 6-14 December, Cape Juby to Cape Cantin. Depth contours as in Fig. 1a.



Figure 3a Sea surface temperature (at 5m depth), Cape Blanc to Cape Juby. Depth contours as in Fig. 1a.



Figure 3b Sea surface temperature (at 5m depth), Cape Juby to Cape Cantin. Depth contours as in Fig. 1a.

Surface temperature

Maps of surface temperatures, as recorded by the ship's thermograph from the depth of 5m are demonstrated in Figure 3a for the southern, and in Figure 3b for the central Morocco regions, respectively. Signatures of coastal upwelling, characterized by inshore pockets of water with temperatures <17 °C, are identifiable at five localities: off Cape Blanc, (2) off Dakhla, (3) to the

north of Cape Bojador, (4) between Tan Tan and Sidi Ifini, and (5) between Cape Sin and Cape Cantin. The lowest subsurface temperature was recorded in the Cape Blank cell: 15.8 °C. Low temperatures were also noted in the northernmost cell, south of Cape Cantin (16 °C).

Another characteristic feature of the subsurface temperature distribution was the presence of the body of warm water >20 °C, which run more or less parallel to the coast, between Dakhla and Cape Juby, Figure 3a. These waters delimit the inshore boundary the southward-bound Canary Current, and constitute a permanent hydrographic feature observed off Cape Bojador; it has been also observed in previous winter surveys with Dr. Fridtjof Nansen carried out in this region.

Vertical structure of temperature, salinity and oxygen

Vertical sections of temperature, salinity and oxygen are shown in Figure 4. The locations of the CTD stations from southern Morocco are given in Figure 1a and those from central Morocco in Figure 1b, respectively.



CAPE BLANC 16.11.2000



DAKHLA 25.11.2000



CAPE BOJADOR 01.12.2000



CAPE JUBY 06.08.2000



CAPE DRA 08.12.2000



AGADIR 11-12.12.2000

Figure 4 Hydrographic sections with distribution of temperature, salinity and oxygen.

All sections of temperature and salinity exhibit the characteristic upward tilt of isolines in the inshore direction - an indicative of the upwelling-inducted uplift of subsurface water masses into the coastal area.

The southernmost section, off Cape Blanc, shows the presence of the South Atlantic water masses on the shelf region. This is indicated by a relatively low salinity (S < 36) and also by low oxygen content (O < 2 ml/l).

Examining the subsequent sections in Figure 4, it is clear that shelf regions to the north of Cape Blank were penetrated by the North Atlantic water masses associated with the Canary Current, characterized by high salinity (S>36.3) and by high oxygen concentration (> 4 ml/l).

Summary of hydrographic conditions

The hydrographic conditions encountered during the 2000 survey were typical for the winter season in the shelf off Morocco. The wind conditions in the south were dominated by a persistent, equatorialward alongshore wind, favouring development of coastal upwelling. To the north, a more variable wind conditions were found, with spells of stronger winds and periods of calmer conditions. From subsurface temperature measurements, five regions with inshore temperatures less than 17 °C were identified as probable locations of the active coastal upwelling cells. These were: the region off Cape Blanc, Dakhla, area north of Cape Bojador, inshore zone between Tan Tan and Sidi Ifini, and region between Cape Sim and Cape Cantin.

The wind conditions and hydrographic features observed during the 2000 survey were rather similar to those recorded in the previous survey, in December 1999. The two main differences

were: (1) in the whole survey area, the slightly lower temperatures and salinities were recorded during the year 2000; (2) in the region of shelf-break of southern Morocco, the northward penetration of the low oxygen subsurface waters characteristic to the South Atlantic regime (O<2 ml/l) was observed in 2000, but not in 1999, Figure 4.

2.2 Distribution of pelagic fish on the shelf from Cape Blanc to Cape Juby

Figures 5 to 8 show the distribution of the main groups of pelagic fish by contoured acoustic densities.

Sardine, *Sardina pilchardus*, Figure 5, was first encountered south of Cape Blanc in Mauritanian waters, extending northwards with patches close to the shore until Cape Barbas. A notable concentration was located close to the shelf edge close to 20°N. The major concentration of sardine was encountered, as in previous years, between 23 and 25° N, more broken up than in previous years and also with some adult fish more offshore. The sardine found close to the shore south of C. Barbas was mainly small sized fish with modal length 11-13 cm while offshore it was mainly big sized fish 23 cm. The dense school aggregations nearshore in the Dakhla area, consisted mostly of sardine with modal length 15-17 cm, mixed with smaller amounts of big fish (mode 22-23 cm).

Between Cape Bojador and Cape Juby dense registrations of sardine was recorded very close to the shore. The registrations were particularly dense from Laayoune and northwards. The samples showed that there was mainly small sized fish with mode around 12 cm, added with some representation from 17 and 21 cm groups.

The general picture of the sardine south of Bojador is that is perhaps more southern compared to previous years and more broken up in patches. The concentrations off Laayoune were denser than in previous years. See Figure 6.



Figure 5 Distribution of sardine, Cape Blanc to Cape Juby. Depth contours as in Fig. 1a.





b) Cape Bojador - Cape Juby



Figure 6. Length frequency distributions sardine.

Sardinellas (Sar*dinella aurita* and *Sardinella maderensis*) were only found between Cape Blanc and Cape Barbas in two small, but very dense aggregations, Figure 7. In addition, one offshore aggregation was located west of Cape Barbas. The concentrations are considerably smaller in extent than in the late previous years, but contains some extremely high integrator values.

Horse mackerels (*Trachurus trachurus* and *T. trecae*) were found in dense concentrations between Cape Blanc and Cape Barbas, between 50 and 200m bottom depth. It was also common at the outer shelf off Dakhla and further north, between Laayoune and Cape Juby, Figure 8.

Chub mackerel (*Scomber japonicus*) were found in small-scattered patches between Cape Blanc and Cape Bojador, in low to medium dense concentrations, Figure 9.

Anchovy (*Engraulis encrasicolus*) were only recorded coincidently at two instances, both forming small patches only (no figure).



Figure 7. Distribution of sardinella, Cape Blanc to Cape Juby. Depth contours as in Fig. 1a.



Figure 8. Distribution of horse mackerel, Cape Blanc to Cape Juby. Depth contours as in Fig. 1a.



Figure 9. Distribution of chub mackerel, Cape Blanc to Cape Juby. Depth contours as in Fig. 1a.

-15

-14

-16

 $\overline{\mathbb{N}}$

-13

27

26

25

 24

 23

22

 21

C. Blanc

-17

|| ||

2.3 Distribution of pelagic fish on the shelf from Cape Juby to Cape Cantin.

Sardine, Figure 10, was registered more or less along the entire coast in this region. Very high densities were recorded off Tan Tan and Sidi Ifni. Off Safi dense concentrations were found from the coast unto mid-shelf. These concentrations were more abundant compared to previous years.



Figure 10. Distribution of sardine, Cape Juby to Cape Cantin. Depth contours as in Fig. 1a.

Anchovy was also common in the shallow areas, Figure 11, but not as dense as the sardine. The areas of highest densities were off Cape Dra, off Agadir, between Cape Ghir and Cape Sim and at the outer shelf south of Safi. One dense patch of limited size was registered off Cape Cantin.



Figure 11. Distribution of anchovy, Cape Juby to Cape Cantin. Depth contours as in Fig. 1a.



Recordings of **horse mackerel** in this region were few and mostly at low to moderate densities, Figure 12. One dense, but small patch was encountered north of Cape Cantin.

Figure 12. Distribution of horse mackerel, Cape Juby to Cape Cantin . Depth contours as in Fig. 1a.



Registers of **chub mackerel** were few and no aggregations that could support a fishery were observed, Figure 13.

Figure 13. Distribution of chub mackerel, Cape Juby to Cape Cantin. Depth contours as in Fig. 1a.





Figure 14 Length frequency distribution of sardine.

2.4 Biomass estimates

A summary on biomass estimates is given in Table 1 below. More detailed biomass estimates in number and weight by length groups are shown in Annex I.

Cape Blanc-Cape Bojador

The **sardine** was estimated to 2.16 million tonnes (2.00 including sardine south off Cape Blanc). The length distribution is earlier shown in Figure 9a. Most of the fish in terms of biomass consist of older fish with mean length around 22 cm. This cohort showed up in the 1998 survey with a mean around 18 cm. Compared with earlier years, the development in the adult part of the stock (i.e. fish >19 cm) is:

1996:	4 600 000 tonnes	47 400 mill fish
1997:	240 000 tonnes	2 900 mill fish
1998:	340 000 tonnes	3 400 mill fish
1999:	1 000 000 tonnes	13 700 mill fish
2000:	1 360 000 tonnes	13 200 mill fish

This confirms that the adult stock has gained in biomass in the latest year through intrinsic growth in bodyweight; the amount in numbers is practically the same. There is a gap in the length distribution between 16 and 20 cm, Figure 9a, indicating that recruitment has been poor in the later years. However a younger cohort with mode around 13 cm shows good strength and will, given normal conditions, give important contributions to rebuild the stock.

Sardinella was estimated to 1.6 million tonnes consisting only of round sardinella, located between Cape Blanc and Cape Barbas. This is the same as estimated last year. However caution should be applied when interpreting the result, as the relative high abundance originates from two extremely high 5-mile values only. Also the allocation to round and not flat sardinella is based on one trawl sample only. Thus the precision of this estimate is low. The total regional compound stock of round and flat sardinellas is estimated to 2.8 million tonnes (Annex 1), a reduction from the 3.6 million tonnes estimated in 1999.

The two species of **horse mackerel** combined was estimated to 1.2 million tonnes, of which about roughly 1.0 million and 0.2 million were Cunene and Atlantic horse mackerel respectively. The Cunene horse mackerel forms part of the stock distributed also south of Cape Blanc. The regional estimate for Cunene horse mackerel is 1.71 million tonnes of which roughly 60% was located north of Cape Blanc.

Cape Bojador – Cape Juby

Sardine was estimated to 595 000 tonnes, a considerable increase from the 340 000 tonnes of the previous year. The fish consists of several cohorts with modes around 11, 16, 20 and 22 cm, Figure 9b. Young fish (<19 cm) makes up 34% in weight and 67% in numbers of the biomass.

Some minor aggregations of horse mackerel were found in the region, but for convenience this has been included in the estimate for Cape Blanc-Cape Bojador.

Cape Juby – Cape Cantin

The **sardine** is estimated to 770 000 tonnes, a 120 000 increase from the 650 000 tonnes of previous year. The stock in both sub-regions has more or less the same length profile and is dominated by small sized fish with mode 13-14 cm, Figure 14. The number of fish less than 18 cm has in one year increased from 14 to 29 billion, Annex 1. This indicates that recruitment is good. However, the adult part of the stock, here defined as fish >17 cm has decreased from 230 000 to 120 000 tonnes, which could indicate that the spawning stock is under some strain.

Anchovies was estimated to 100 000 tonnes, a not significant increase from last years' estimate of 70 000 tonnes. The main part of the population belongs to a cohort with mode around 11-12 cm.

Atlantic horse mackerel was estimated to 90 000 tonnes, of which 70 000 is in the patches off Cape Cantin.

Chub mackerel was estimated to 20 000 tonnes, mostly as scattered fish.

2	Table 1. Mor	rocco. Summa	ry of biomass	estimates of	pelagic fish,	1 000 tonnes.	
Region	Sardines	Round sardinella	Flat sardinella	Atlantic horse mackerel	Cunene horse mackerel	Chub mackerel	Anchovy
Cape Blanc- Cape Bojador Cape Bojador-	2 000	1600	0	180	1 000	0	15
Cape Juby	595	0	0	0	0	0	0
Cape Cantin	770	0	0	90	0	20	100
Totals	3365	1600	0	270	1 000	20	115

The survey was conducted successfully in the period 19th November to 15th December with an acoustic course track of 5000 NM and 57 fishing stations. The limits of the school areas of the sardine, anchovy and horse mackerel are thought to have been well determined and the main areas adequately sampled. Sardinellas were registered at very high densities in a few areas of limited extent. The estimates from these suffer from low precision. The weather conditions were favourable and did not put any constraints on the survey work.

The hydrographic data show well-developed upwelling along the whole coastline. The temperature and salinity observed show typical seasonal patterns with no anomalies.

Figure 15 gives a general overview on the major aggregations of pelagic fish with rounded biomass figures. The biomass estimates are also summarised in Table 1.

In contrast to previous years the sardine was found in a more southern distribution, partially extending into Mauritanian waters. The fish was more spread out in patches, and the area north of Dakhla contains less fish than in previous years. The biomass of sardine has increased from 1.7 to 2 million tonnes. Recruitment has been successful during 2000 and the strength of the juveniles is above normal. It is expected that the biomass will further increase during 2001 as the abundant juveniles increase in body weight. The abundance of sardine between Cape Bojador and Cape Juby is estimated to 595 000 tonnes, a considerable increase from the 300 000 tonnes of the previous year. At the same time the fishery in this region has caught 300 000 tonnes during 2000. This supports the hypothesis that the stock in this area is fed from neighbouring regions. The stock between Cape Juby and Cape Cantin is estimated to 770 000 tonnes, a slight increase from the 650 000 of last year. Recruitment has been good in the region, while the adult part of the stock has decreased from 230 000 to 120 000 tonnes. This could indicate that the fishing pressure on the adult stock is rather high and that the sustainability at present is much dependent on continued successful recruitment.

A few, but very dense, concentrations of sardinellas were found north of Cape Blanc. The sardinella is estimated to 1.6 million tonnes, a figure that should be treated with some caution as it has a low precision. The total regional stock of sardinella is estimated to 2.7 million tonnes compared to the 3.6 million tonnes of the previous year.



Figure 15. Map of the major pelagic fish concentrations with estimated abundance (1 000 tonnes), Cape Blanc to Cape Cantin.

Horse mackerel was mainly located between Cape Blanc and Cape Barbas. The estimate is 1.2 million tonnes of which 1 million tonnes was from Cunene horse mackerel. The regional estimate on Cunene horse mackerel is 1.8 million tonnes, while in the previous year this estimate was only 470 000 tonnes.

Anchovy registrations were common from Cape Juby and northwards. The estimate of 100 000 tonnes is rather poor compared to the survey in 1998, but practically the same as in 1999 (70 000 tonnes).

Trends 1995-2000, sardine

Figure 16 shows the biomass estimates of sardine compared with results from previous "Dr. Fridtjof Nansen" surveys. Figure 17 shows the biomass figures 1995-2000 by length classes. Both figures show that the southern stock, including the sardine between Cape Bojador and Cape Juby, is gradually recovering from the drastic decline observed at the end of 1997. The last estimate holds a considerable amount of juveniles and, given normal growth conditions, it is expected further increase in the stock during 2001. Within a year the southern stock could possibly approach the long-term mean of the period 1986-96.

The central stock between Cape Juby and Safi seems to continue on a slowly increasing trend and is now comparable to the estimate in the 80ies. However, the length profile of the time-series, Figure 17 (top) show that the adult part of the stock has decreased during 2000, while recruitment on the other hand is strong. The present fishing pressure seems to be high, as the stock does not seems to accumulate any older year classes. Therefore the state of the stock is at present probably very dependent of a continued strong recruitment level.





Figure 16. Sardine biomass estimates Cape Blanc-Cape Juby and Cape Juby- Cape Cantin, Dr. Fridtjof Nansen 1986-2000.



Figure 17. Numbers and biomass by length class, 1995-2000. Cape Juby - Cape Cantin (top) and Cape Blanc (Cape Timiris) – Cape Juby (bottom).

Annex I Records of fishing stations

ד קגיד: 19/11/00 בדאר דע	DF: DT No:4	PROJ	TTION:Lat N 2026
start stop duration	IE. II N0.4	100	Long W 1706
TIME :17:47:45 18:19:03 31 (min) Purpose co	de:	1
FDEPTH: 1 1	GearCond.c	ode:	3
BDEPTH: 24 22	Validity c	ode:	
Towing dir: 195ø Wire out:	150 m Speed	: 30	kn*10
Sorted: 33 Kg Total catch:	468.58	CATO	CH/HOUR: 906.93
SPECIES	CATCH/HOU	R	% OF TOT. C SAMP
Sardina pilchardus	weight num 894.19 3	bers 7037	98.60 2315
Engraulis encrasicolus	11.65	2954	1.28 2316
Trachurus trecae	0.81	352	0.09
irachurus crachurus	0.27	01	0.05
Total	906.92		100.00
DATE:20/11/00 GEAR TY	PE: PT No:1	POS	ROJECT STATION:1256 ITTON:Lat N 2040
start stop duration	12. 11 10.1	2 000	Long W 1730
TIME :01:18:22 01:28:41 10 (min) Purpose co	de:	1
FDEPTH: 30 25	GearCond.c	ode:	3
BDEPTH: 71 74	Validity c	ode:	
Towing dir: 270ø Wire out:	120 m Speed	: 30	kn*10
Sorted: 31 Kg Total catch:	116.72	CAT	CH/HOUR: 700.32
SPECIES	CATCH/HOU	R	% OF TOT. C SAMP
	weight num	bers	
Sardina pilchardus Scomber japonicus	677.28	4920	96.71 2317
Argentina sphyraena	4.80	312	0.69
Trachurus trecae	3.36	24	0.48
Sepia officinalis hierredda	0.96	24	0.14
GOBIIDAE	0.24	24	0.03
Allotheutis subulata	0.24	48	0.03
irachurus crecae, juvenire	0.24	40	0.03
Total	700.32		100.00
			DO TROP (000 000 1 0 0 7
DATE:20/11/00 GEAR TY	PE: PT No:1	POS	ITION:Lat N 2040
start stop duration			Long W 1710
TIME :04:11:37 04:18:17 7 (min) Purpose co	de:	1
100 - 2725 70 2726 00 0 40	Juon ando		-
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LOG :3735.72 3736.20 0.49 FDEPTH: 10 10 EDEPTH: 35 36 Towing dir: 270ø Wire out: Sorted: 34 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Total DATE:20/11/00 GEAR TY start stop duration TIME :07:17:31 07:47:48 30 (min LOG :3760.72 3762.58 1.83 FDEPTH: 30 34 EDEPTH: 31 45 Towing dir: 90ø Wire out: Sorted: 1 Kg Total catch: SPECIES Sarda sarda Total DATE:20/11/00 GEAR TY start stop duration TIME :09:02:37 09:24:01 21 (min LOG :3710.58 3771.92 1.32 FDEPTH: 51 47 Total dir: 90ø Wire out:	Area code GearCond.c Validity c 100 m Speed 2999.91 CATCH/HOU weight num 25682.92 60 30.60 25713.52 PE: PT No:3) Purpose co Area code GearCond.c Validity c 85 m Speed 0.76 CATCH/HOU weight num 1.52 1.52 PE: PT No:3) Purpose co Area code GearCond.c Validity c 0.76 CATCH/HOU weight num 1.52 1.52	:: 35 ode: 35 ode: 35 CATC R berss 9566 2297 POS: 2297 POS: 30 cATC cATC CATC CATC CATC CATC CATC CATC	3 kn*10 CH/HOUR: 25713.52 & OF TOT. C SAMP 99.88 2318 0.12 100.00 ROJECT STATION:1258 TTION:Lat N 2050 Long W 1718 3 kn*10 CH/HOUR: 1.52 & OF TOT. C SAMP 100.00 100.00 ROJECT STATION:1259 ITION:Lat N 2050 Long W 1719 1 3 kn*10
LOG :3735.72 3736.20 0.49 FDEFTH: 10 10 EDEFTH: 35 36 Towing dir: 270ø Wire out: Sorted: 34 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Total DATE:20/11/00 GEAR TY Start stop duration TIME :07:17:31 07:47:48 30 (min LOG :3760.72 3762.58 1.83 FDEPTH: 30 34 EDEFTH: 31 45 Towing dir: 90ø Wire out: Sorted: 1 Kg Total catch: SPECIES Sarda sarda Total DATE:20/11/00 GEAR TY Start stop duration TIME :09:02:37 09:24:01 21 (min LOG :3770.58 3771.92 1.32 FDEPTH: 51 47 Towing dir: 90ø Wire out:	Area code GearCond.c Validity c 100 m Speed 2999.91 CATCH/HOU weight num 25682.92 100 30.60 25713.52 PE: PT No:3) Purpose co Area code GearCond.c Validity c 85 m Speed 0.76 CATCH/HOU weight num 1.52 1.52 PE: PT No:3) Purpose co Area code GearCond.c Validity c 95 m Speed	:: 35 ode: 35 ode: 35 CATC R bers 9566 22297 PDS de: 30 CATC R bers 2 0de: 30 CATC R bers 2 CATC R bers 30 CATC R	3 kn*10 CH/HOUR: 25713.52 & OF TOT. C SAMP 99.88 2318 0.12 100.00 ROJECT STATION:1258 TTION:Lat N 2050 Long W 1718 3 kn*10 CH/HOUR: 1.52 & OF TOT. C SAMP 100.00 100.00 ROJECT STATION:1259 ITION:Lat N 2050 Long W 1719 1 3 kn*10
LOG :3735.72 3736.20 0.49 FDEPTH: 10 10 BDEPTH: 35 36 Towing dir: 270ø Wire out: Sorted: 34 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Total DATE:20/11/00 GEAR TY Start stop duration TIME :07:17:31 07:47:48 30 (min LOG :3760.72 3762.58 1.83 FDEPTH: 30 34 EDEPTH: 51 45 Towing dir: 90ø Wire out: Sorted: 1 Kg Total catch: SPECIES Sarda sarda Total DATE:20/11/00 GEAR TY Start stop duration TIME :09:02:37 09:24:01 21 (min LOG :3770.58 3771.92 1.32 FDEPTH: 51 47 TOTAL DATE:20/11/00 GEAR TY Start stop duration TIME :09:02:37 09:24:01 21 (min LOG :3770.58 3771.92 1.32 FDEPTH: 51 47 Towing dir: 90ø Wire out: Sorted: 53 Kg Total catch:	Area code GearCond.c Validity c 100 m Speed 2999.91 CATCH/HOU weight num 25682.92 100 30.60 25713.52 PE: PT No:3) Purpose co Area code GearCond.c Validity c 85 m Speed 0.76 CATCH/HOU weight num 1.52 1.52 PE: PT No:3) Purpose co Area code GearCond.c Validity c 95 m Speed 53.37	:: 30 CATC R bers 95566 2297 PDS de:: : 30 CATC R bers 0de: : 30 CATC CATC CATC CATC	3 kn*10 CH/HOUR: 25713.52 & OF TOT. C SAMP 99.88 2318 0.12 100.00 ROJECT STATION:1258 TTION:Lat N 2050 Long W 1718 3 kn*10 CH/HOUR: 1.52 & OF TOT. C SAMP 100.00 100.00 100.00 ROJECT STATION:1259 ITION:Lat N 2050 Long W 1719 1 3 kn*10 CH/HOUR: 152.49
LOG :3735.72 3736.20 0.49 FDEPTH: 10 10 BDEPTH: 35 36 Towing dir: 270ø Wire out: Sorted: 34 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Total DATE:20/11/00 GEAR TY Start stop duration TIME :07:17:31 07:47:48 30 (min LOG :3760.72 3762.58 1.83 FDEPTH: 30 34 BDEPTH: 51 45 Towing dir: 90ø Wire out: Sorted: 1 Kg Total catch: SPECIES Sarda sarda Total DATE:20/11/00 GEAR TY Start stop duration TIME :09:02:37 09:24:01 21 (min LOG :3770.58 3771.92 1.32 FDEPTH: 36 38 BDEPTH: 31 47 Towing dir: 90ø Wire out: Sorted: 53 Kg Total catch: SPECIES	Area code GearCond.c Validity c 100 m Speed 2999.91 CATCH/HOU weight num 25682.92 60 30.60 25713.52 PE: PT No:3) Purpose co Area code GearCond.c Validity c 85 m Speed 0.76 CATCH/HOU weight num 1.52 1.52 PE: PT No:3) Purpose co Area code GearCond.c Validity c 95 m Speed 53.37 CATCH/HOU	:: 35 ode: 35 ode: 35 CATC R berss de: 2297 PDS de: : 30 CATC R berss 2 DF POS: de: : 30 CATC R cATC R R CATC R R CATC R	3 kn*10 CH/HOUR: 25713.52 % OF TOT. C SAMP 99.88 2318 0.12 100.00 ROJECT STATION:1258 TTION:Lat N 1 N 2050 Long W 1 3 kn*10 CH/HOUR: 1.52 OF TOT. C \$ OF TOT. C SAMP 100.00 Long W 1710N:Lat N 2050 Long W 1719 1 3 kn*10 CH/HOUR: CH/HOUR: 152.49 % OF TOT. C SAMP
LOG :3735.72 3736.20 0.49 FDEPTH: 10 10 EDEPTH: 35 36 Towing dir: 270ø Wire out: Sorted: 34 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Total	Area code GearCond.c Validity c 100 m Speed 2999.91 CATCH/HOU weight num 25682.92 60 30.60 25713.52 PE: PT No:3) Purpose co Area code GearCond.c Validity c 85 m Speed 0.76 CATCH/HOU weight num 1.52 PE: PT No:3) Purpose co Area code GearCond.c Validity c 85 m Speed 53.37 CATCH/HOU weight num 142 oc	:: 35 CATC R berss 9566 2297 PI POS: de: : : 30 CATC R berss 2 PP Sole: : : 30 CATC R POS: de: : : 30 CATC R berss 2 CATC R	3 kn*10 CH/HOUR: 25713.52 & OF TOT. C SAMP 99.88 2318 0.12 100.00 ROJECT STATION:1258 ITION:Lat N 2050 Long W 1718 1 kn*10 CH/HOUR: 1.52 & OF TOT. C SAMP 100.00 100.00 100.00 ROJECT STATION:1259 ITION:Lat N 2050 Long W 1719 3 kn*10 CH/HOUR: 152.49 & OF TOT. C SAMP
LOG :3735.72 3736.20 0.49 FDEFTH: 10 10 BDEPTH: 35 36 Towing dir: 270ø Wire out: Sorted: 34 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Total DATE:20/11/00 GEAR TY start stop duration TIME :07:17:31 07:47:48 30 (min LOG :3760.72 3762.58 1.83 FDEFTH: 30 34 BDEPTH: 51 45 Towing dir: 90ø Wire out: Sorted: 1 Kg Total catch: SPECIES Sarda sarda Total DATE:20/11/00 GEAR TY start stop duration TIME :09:02:37 09:24:01 21 (min LOG :3770.78 3771.92 1.32 FDEFTH: 36 38 BDEPTH: 51 47 Towing dir: 90ø Wire out: Sorted: 53 Kg Total catch: SPECIES	Area code GearCond.c Validity c 100 m Speed 2999.91 CATCH/HOU weight num 25682.92 60 30.60 25713.52 PE: PT No:3) Purpose co Area code GearCond.c Validity c 85 m Speed 0.76 CATCH/HOU weight num 1.52 PE: PT No:3) Purpose co Area code GearCond.c Validity c 85 m Speed 53.37 CATCH/HOU weight num 142.86 2.29	:: 30 CATC R berss 9566 22297 POS: de: : 30 CATC R berss 2 POS: de: : 30 CATC R berss 2 CATC R berss 2 CATC R POS: cate CATC R POS: CATC R POS: CATC R POS: CATC R POS: CATC R POS: CATC R POS: CATC R POS: CATC R POS: CATC R POS: CATC R POS: CATC R POS: CATC R POS: CATC R POS: CATC R POS: CATC CATC R POS: CATCA	3 kn*10 CH/HOUR: 25713.52 & OF TOT. C SAMP 99.88 2318 0.12 100.00 ROJECT STATION:1258 ITION:Lat N 2050 Long W 1718 1 3 kn*10 CH/HOUR: 1.52 & OF TOT. C SAMP 100.00 100.00 ROJECT STATION:1259 ITION:Lat N 2050 Long W 1719 1 3 kn*10 CH/HOUR: 152.49 & OF TOT. C SAMP 93.68 2319 1.50
LOG :3735.72 3736.20 0.49 FDEFTH: 10 10 BDEPTH: 35 36 Towing dir: 270ø Wire out: Sorted: 34 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Total DATE:20/11/00 GEAR TY start stop duration TIME:07:17:31 07:47:48 30 (min LOG :3760.72 3762.58 1.83 FDEPTH: 30 34 BDEPTH: 51 45 Towing dir: 90ø Wire out: Sorted: 1 Kg Total catch: SPECIES Sarda sarda Total DATE:20/11/00 GEAR TY start stop duration TIME:09:02:37 09:24:01 21 (min LOG :3770.78 3771.92 1.32 FDEPTH: 51 47 Towing dir: 90ø Wire out: Sorted: 53 Kg Total catch: SPECIES Trachurus trecae Decapterus rhonchus Sardinella maderensis	Area code GearCond.c Validity c 100 m Speed 2999.91 CATCH/HOU weight num 25682.92 60 30.60 25713.52 PE: PT No:3) Purpose co Area code GearCond.c Validity c 85 m Speed 0.76 CATCH/HOU weight num 1.52 PE: PT No:3) Purpose co Area code GearCond.c Validity c 95 m Speed 53.37 CATCH/HOU weight num 142.86 2.29 2.20	::30 ode: ode: 35 CATC R bers 9566 2297 POS: de: :30 CATC R bers 2 POS: catc catc catc catc catc catc catc cat	3 kn*10 CH/HOUR: 25713.52 % OF TOT. C SAMP 99.88 2318 0.12 100.00 ROJECT STATION:1258 TTION:Lat N 13 kn*10 CH/HOUR: 1.52 % OF TOT. C SAMP 100.00 100.00 ROJECT STATION:1259 TTION:Lat N 2050 Long W 1719 3 kn*10 CH/HOUR: 152.49 % OF TOT. C SAMP 93.68 2319 1.50 1.44
LOG :3735.72 3736.20 0.49 FDEFTH: 10 10 EDEFTH: 35 36 Towing dir: 270ø Wire out: Sorted: 34 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Total DATE:20/11/00 GEAR TY start stop duration TIME :07:17:31 07:47:48 30 (min LOG :3760.72 3762.58 1.83 FDEPTH: 30 34 EDEFTH: 31 45 Towing dir: 90ø Wire out: Sorted: 1 Kg Total catch: SPECIES Sarda sarda Total DATE:20/11/00 GEAR TY start stop duration TIME :09:02:37 09:24:01 21 (min LOG :3770.58 3771.92 1.32 FDEPTH: 51 47 Towing dir: 90ø Wire out: Sorted: 53 Kg Total catch: SPECIES Trachurus trecae Decapterus rhonchus Sardinella maderensis Zeus faber	Area code GearCond.c Validity c 100 m Speed 2999.91 CATCH/HOU weight num 25682.92 60 30.60 25713.52 PE: PT No:3) Purpose co Area code GearCond.c Validity c 85 m Speed 0.76 CATCH/HOU weight num 1.52 1.52 PE: PT No:3) Purpose co Area code GearCond.c Validity c 95 m Speed 53.37 CATCH/HOU weight num 142.86 2.29 2.20 1.63	:: 35 ode:: 35 CATC R berss 9566 2297 POS: de:: 30 CATC R berss 2 catco	3 kn*10 CH/HOUR: 25713.52 & OF TOT. C SAMP 99.88 2318 0.12 100.00 ROJECT STATION:1258 TTION:Lat N 2050 Long W 1718 1 3 kn*10 CH/HOUR: 1.52 & OF TOT. C SAMP 100.00 100.00 ROJECT STATION:1259 ITION:Lat N 2050 Long W 1719 1 3 kn*10 CH/HOUR: 152.49 & OF TOT. C SAMP 93.68 2319 1.50 1.44 1.07 1.02
LOG :3735.72 3736.20 0.49 FDEFTH: 10 10 EDEFTH: 35 36 Towing dir: 270ø Wire out: Sorted: 34 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Total DATE:20/11/00 GEAR TY Start stop duration TIME :07:17:31 07:47:48 30 (min LOG :3760.72 3762.58 1.83 FDEFTH: 30 34 EDEFTH: 31 45 Towing dir: 90ø Wire out: Sorted: 1 Kg Total catch: SPECIES Sarda sarda Total DATE:20/11/00 GEAR TY Start stop duration TIME :09:02:37 09:24:01 21 (min LOG :3770.58 3771.92 1.32 FDEFTH: 36 38 EDEFTH: 31 47 Towing dir: 90ø Wire out: Sorted: 53 Kg Total catch: SPECIES Trachurus trecae Decapterus rhonchus Sardinella maderensis Zeus faber Spardinella aurita	Area code GearCond.c Validity c 100 m Speed 2999.91 CATCH/HOU weight num 25682.92 60 30.60 25713.52 PE: PT No:3) Purpose co Area code GearCond.c Validity c 85 m Speed 0.76 CATCH/HOU weight num 1.52 1.52 PE: PT No:3) Purpose co Area code GearCond.c Validity c 95 m Speed 53.37 CATCH/HOU weight num 142.86 2.29 2.20 1.63 1.57	:: 35 ode:: 35 CATC R berss de:: 2297 PDS: de:: : 30 CATC R berss de:: : 30 CATC R berss de:: : 30 CATC R berss de:: : 30 CATC R berss de:: : 30 CATC R berss de:: : 35 CATC R berss de:: : 35 CATC R berss de:: : 35 CATC R berss de:: : 35 CATC R berss de:: : 30 CATC R berss de:: : 30 CATC R berss de:: : 30 CATC R berss de:: : 30 CATC R berss de:: : 30 CATC R berss de:: : : 30 CATC R berss de:: : : 30 CATC R berss de:: : : 30 CATC R berss de:: : : : 30 CATC R berss de:: : : : : : : : : : : : : : : : : : :	3 kn*10 CH/HOUR: 25713.52 % OF TOT. C SAMP 99.88 2318 0.12
LOG :3735.72 3736.20 0.49 FDEFTH: 10 10 EDEFTH: 35 36 Towing dir: 270ø Wire out: Sorted: 34 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Total DATE:20/11/00 GEAR TY start stop duration TIME :07:17:31 07:47:48 30 (min LOG :3760.72 3762.58 1.83 FDEFTH: 30 34 EDEFTH: 30 34 EDEFTH: 51 45 Towing dir: 90ø Wire out: Sorted: 1 Kg Total catch: SPECIES Sarda sarda Total DATE:20/11/00 GEAR TY start stop duration TIME :09:02:37 09:24:01 21 (min LOG :3770.58 3771.92 1.32 FDEFTH: 36 38 EDEFTH: 51 47 Towing dir: 90ø Wire out: Sorted: 53 Kg Total catch: SPECIES Trachurus trecae Decapterus rhonchus Sardinella muderensis Zeus faber Spondyliosoma cantharus Sardinella aurita Dentex gibbosus	Area code GearCond.c Validity c 100 m Speed 2999.91 CATCH/HOU weight num 25682.92 60 30.60 25713.52 PE: PT No:3) Purpose co Area code GearCond.c Validity c 85 m Speed 0.76 CATCH/HOU weight num 1.52 1.52 PE: PT No:3) Purpose co Area code GearCond.c Validity c 95 m Speed 53.37 CATCH/HOU weight num 142.86 2.29 2.20 1.63 1.57	:: 35 ode:: 35 CATC R berss 9566 2297 PDS de:: : 30 CATC R berss 2 PDS cATC R POS: de:: : 30 CATC R PDS cATC R PDS cATC R berss 2 CATC R berss 2 CATC R berss 2 CATC R PDS cATC R R PDS cATC R R PDS cATC R R PDS cATC R R PDS cATC R R PDS cATC R R PDS cATC R R R R PDS cATC R R R R R R R R R R R R R R R R R R R	3 kn*10 CH/HOUR: 25713.52 & OF TOT. C SAMP 99.88 2318 0.12 100.00 ROJECT STATION:1258 TTION:Lat N 2050 Long W 1718 1 kn*10 CH/HOUR: 1.52 & OF TOT. C SAMP 100.00 100.00 ROJECT STATION:1259 TTION:Lat N 2050 Long W 1719 1 3 kn*10 CH/HOUR: 152.49 & OF TOT. C SAMP 93.68 2319 1.50 1.44 1.07 1.03 0.77 0.50
LOG :3735.72 3736.20 0.49 FDEFTH: 10 10 EDEFTH: 35 36 Towing dir: 270ø Wire out: Sorted: 34 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Total DATE:20/11/00 GEAR TY start stop duration TIME :07:17:31 07:47:48 30 (min LOG :3760.72 3762.58 1.83 FDEFTH: 30 34 EDEFTH: 30 34 EDEFTH: 51 45 Towing dir: 90ø Wire out: Sorted: 1 Kg Total catch: SPECIES Sarda sarda Total DATE:20/11/00 GEAR TY start stop duration TIME :09:02:37 09:24:01 21 (min LOG :3770.58 3771.92 1.32 FDEFTH: 36 38 EDEFTH: 51 47 Towing dir: 90ø Wire out: Sorted: 53 Kg Total catch: SPECIES Trachurus trecae Decapterus rhonchus Sardinella aurita Dentex gibbosus Total	Area code GearCond.c Validity c 100 m Speed 2999.91 CATCH/HOU weight num 25682.92 60 30.60 25713.52 PE: PT No:3) Purpose co Area code GearCond.c Validity c 85 m Speed 0.76 CATCH/HOU weight num 1.52 	:: 35 ode:: 35 CATC R berss 9566 2297 PDS de:: : 30 CATC R berss 2 PDS cATC R POS: : 30 CATC R PDS: : 30 CATC R berss 2 PDS cATC R berss 30 CATC R berss 2 2 2 2 3 7 8 2 2 3 7 8 2 2 3 7 8 3 8 6 6 6 3 3 6 3 3 3 3	3 kn*10 CH/HOUR: 25713.52 % OF TOT. C SAMP 99.88 2318 0.12 100.00 ROJECT STATION:1258 TTION:Lat N 2050 Long W 1718 1 3 kn*10 CH/HOUR: 1.52 % OF TOT. C SAMP 100.00 100.00 CH/HOUR: 1.52 % OF TOT. C SAMP 100.00 CH/HOUR: 152.49 % OF TOT. C SAMP 1 3 kn*10 CH/HOUR: 152.49 % OF TOT. C SAMP 93.68 2319 1.44 1.07 1.03 0.77 0.50 99.99

DATE:21/11/00 GEAR TY	PE: PT No:3 POS	ROJECT STATION:1260 ITION:Lat N 2119		
start stop duration		Long W 1718		
LOG :3914.48 3915.89 1.38	Area code :	2		
FDEPTH: 38 45	GearCond.code:			
Towing dir: 90ø Wire out:	120 m Speed: 40	kn*10		
Sorted: 17 Kg Total catch:	16 80 CAT	CH/HOUR: 40 32		
borcea: 17 kg Total caton.	10.00 011			
SPECIES	CATCH/HOUR weight numbers	% OF TOT. C SAMP		
Trachurus trecae	40.32 305	100.00		
Total	40.32	100.00		
	P	ROJECT STATION:1261		
DATE:21/11/00 GEAR TY start stop duration	PE: PT No:1 POS	ITION:Lat N 2050 Long W 1718		
TIME :05:06:00 05:36:06 30 (min) Purpose code:	1		
LOG :3962.28 3964.29 1.99 FDEPTH: 25 31	Area code : GearCond.code:	2		
BDEPTH: 50 45	Validity code:	len * 1.0		
lowing dir. 3000 wire out.	120 m Speed: 35	KII" 10		
Sorted: 8 Kg Total catch:	8.05 CAT	CH/HOUR: 16.10		
SPECIES	CATCH/HOUR	% OF TOT. C SAMP		
Trachurus trecae	weight numbers 10.70 66	66.46 2320		
Sardinella aurita	1.80 8	11.18 2322		
Scomber japonicus	0.68 2	4.22		
Sardinella aurita - Juveniles	0.66 70	4.10 2321		
Loligo vulgaris	0.50 2	3.11 1.99		
Boops boops	0.04 2	0.25		
Trachurus trecae, juvenile Sepia officinalis hierredda	0.02 20	0.12		
	16 10	100.00		
Iotai	10.10	100.00		
	P	ROJECT STATION:1262		
DATE:21/11/00 GEAR TY	PE: BT No:2 POS	ITION:Lat N 2131		
TIME :11:22:49 11:30:23 8 (min) Purpose code:	1		
LOG :4021.04 4021.55 0.51 FDEPTH: 27 27	Area code : GearCond.code:	2		
BDEPTH: 27 27	TT- 7 / 8/			
m 1 11 1 100 ml	validity code:	1 410		
Towing dir: 190ø Wire out:	140 m Speed: 30	kn*10		
Towing dir: 190ø Wire out: Sorted: 41 Kg Total catch:	140 m Speed: 30	kn*10 CH/HOUR: 37500.00		
Towing dir: 190ø Wire out: Sorted: 41 Kg Total catch:	140 m Speed: 30	kn*10 CH/HOUR: 37500.00		
Towing dir: 1900 Wire out: Sorted: 41 Kg Total catch: SPECIES	140 m Speed: 30 5000.00 CAT CATCH/HOUR weight numbers	kn*10 CH/HOUR: 37500.00 % OF TOT. C SAMP		
Towing dir: 1900 Wire out: Sorted: 41 Kg Total catch: SPECIES Sardina pilchardus	CATCH/HOUR veight numbers 31860.60 1542300	kn*10 CH/HOUR: 37500.00 % OF TOT. C SAMP 84.96 2314		
Towing dir: 1900 Wire out: Sorted: 41 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Campogramma glaycos	Validity code: 140 m Speed: 30 5000.00 CAT CATCH/HOUR weight numbers 31860.60 1542300 5636.63 484748 2.78 8	kn*10 CH/HOUR: 37500.00 * OF TOT. C SAMP 84.96 2314 15.03 2313 0.01		
Towing dir: 1900 Wire out: Sorted: 41 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Campogramma glaycos — Total	Validity code: 140 m Speed: 30 5000.00 CAT CATCH/HOUR weight numbers 31860.60 1542300 5636.63 484748 2.78 8 37500.01	kn*10 CH/HOUR: 37500.00 * OF TOT. C SAMP 84.96 2314 15.03 2313 0.01 100.00		
Towing dir: 1900 Wire out: Sorted: 41 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Campogramma glaycos — Total	Validity code: 140 m Speed: 30 5000.00 CAT CATCH/HOUR weight numbers 31860.60 1542300 5636.63 484748 2.78 8 37500.01	kn*10 CH/HOUR: 37500.00 * OF TOT. C SAMP 84.96 2314 15.03 2313 0.01 100.00		
Towing dir: 1900 Wire out: Sorted: 41 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Campogramma glaycos Total	Validity code: 140 m Speed: 30 5000.00 CAT CATCH/HOUR weight numbers 31860.60 1542300 5636.63 1542300 5636.63 15424748 2.78 8 37500.01	kn*10 CH/HOUR: 37500.00 * OF TOT. C SAMP 84.96 2314 15.03 2313 0.01 100.00 ROJECT STATION:1263		
Towing dir: 1900 Wire out: Sorted: 41 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Campogramma glaycos Total DATE:21/11/00 GEAR TY control duration	Validity code: 140 m Speed: 30 5000.00 CAT CATCH/HOUR weight numbers 31860.60 1542300 5636.63 484748 2.78 8 37500.01 PE: PT No:1 POS	kn*10 CH/HOUR: 37500.00 * OF TOT. C SAMP 84.96 2314 15.03 2313 0.01 100.00 ROJECT STATION:1263 ITION:Lat N 2130		
Towing dir: 1900 Wire out: Sorted: 41 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Campogramma glaycos Total DATE:21/11/00 GEAR TY start stop duration TIME :14:47:40 14:48:41 1 (min	Validity code: 140 m Speed: 30 5000.00 CAT CATCH/HOUR weight numbers 31860.60 1542300 5636.63 484748 2.78 8 37500.01 PE: PT No:1 POS) Purpose code:	kn*10 CH/HOUR: 37500.00 & OF TOT. C SAMP 84.96 2314 15.03 2313 0.01 100.00 ROJECT STATION:1263 ITION:Lat N 2130 Long W 1727 1		
Towing dir: 1900 Wire out: Sorted: 41 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Campogramma glaycos Total DATE:21/11/00 GEAR TY Start stop duration TIME :14:47:40 14:48:41 1 (min LOG :4050.07 4050.13 0.09 FDEPTH: 100 100 100	Validity code: 140 m Speed: 30 5000.00 CAT CATCH/HOUR weight numbers 31860.60 1542300 5636.63 484748 2.78 8 37500.01 PE: PT No:1 POS .) Purpose code: Area code : GearCod.code :	kn*10 CH/HOUR: 37500.00 * OF TOT. C SAMP 84.96 2314 15.03 2313 0.01 100.00 ROJECT STATION:1263 ITION:Lat N 2130 Long W 1727 1 2		
Towing dir: 1900 Wire out: Sorted: 41 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Campogramma glaycos Total DATE:21/11/00 GEAR TY Start stop duration TIME :14:47:40 14:48:41 1 (min LOG :4050.07 4050.13 0.09 FDEPTH: 100 100 BDEPTH: 102 102	Validity code: 140 m Speed: 30 5000.00 CAT CATCH/HOUR weight numbers 31860.60 1542300 5636.63 484748 2.78 8 37500.01 PE: PT No:1 POS PE: PT No:1 POS 0 Purpose code: Area code : QearCod.code: Validity code:	kn*10 CH/HOUR: 37500.00 * OF TOT. C SAMP 84.96 2314 15.03 2313 0.01 100.00 ROJECT STATION:1263 ITION:Lat N 2130 Long W 1727 1 2		
Towing dir: 1900 Wire out: Sorted: 41 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Campogramma glaycos Total DATE:21/11/00 GEAR TY start stop duration TIME :14:47:40 14:48:41 1 (min LOG :4050.07 4050.13 0.09 FDEPTH: 100 100 BDEPTH: 102 102 Towing dir: 900 Wire out:	Validity code: 140 m Speed: 30 5000.00 CAT CATCH/HOUR weight numbers 31860.60 1542300 5636.63 484748 2.78 8 37500.01 PE: PT No:1 POS .) Purpose code: Area code : GearCond.code: Validity code: 200 m Speed: 32	kn*10 CH/HOUR: 37500.00 * OF TOT. C SAMP 84.96 2314 15.03 2313 0.01 100.00 ROJECT STATION:1263 ITION:Lat N 2130 Long W 1727 1 2 kn*10		
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Towing dir: 1900 Wire out: Sorted: 41 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Campogramma glaycos Total DATE:21/11/00 GEAR TY Start stop duration TIME :14:47:40 14:48:41 1 (min LOG :4050.07 4050.13 0.09 FDEPTH: 100 100 BDEPTH: 102 102 Towing dir: 900 Wire out: Sorted: 2 Kg Total catch: SPECIES Trachurus trecae Scomber japonicus PENABIDAE Trachurus trecae, juvenile Selene dorsalis Serranus africana Total DATE:21/11/00 GEAR TY start stop duration TIME :17:21:28 17:26:48 5 (min LOG :4069.30 4069.59 0.28 FDEPTH: 109 109 EDEPTH:	Validity code: 140 m Speed: 30 5000.00 CAT CATCH/HOUR weight numbers 31860.60 1542300 5636.63 484748 2.78 8 37500.01 PE: PT No:1 POS) Purpose code: Area code : GearCond.code: Validity code: 200 m Speed: 32 2.12 CAT CATCH/HOUR weight numbers 78.00 300 12.00 480 12.00 480 12.00 480 12.00 180 (1.20 60 127.20 PE: BT No:2 POS) Purpose code: Area code : GearCond.code: Validity code: 127.20 PE: BT No:2 POS) Purpose code: 400 m Speed: 30 2005.00 CAT CATCH/HOUR weight numbers 20250.00 247464	kn*10 CH/HOUR: 37500.00 * OF TOT. C SAMP 84.96 2314 15.03 2313 0.01 100.00 ROJECT STATION:1263 ITTON:LAT N 2130 Long W 1727 1 2 kn*10 CH/HOUR: 127.20 * OF TOT. C SAMP 61.32 15.09 9.43 3.77 0.94 99.98 ROJECT STATION:1264 ITTON:LAT N 2140 Long W 1726 1 3 kn*10 CH/HOUR: 24060.00 * OF TOT. C SAMP 84.16 2316 12.47 2318		
Towing dir: 1900 Wire out: Sorted: 41 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Campogramma glaycos Total DATE:21/11/00 GEAR TY start stop duration TIME :14:47:40 14:48:41 1 (min LOG :4050.07 4050.13 0.09 FDEPTH: 100 100 BDEPTH: 102 102 Towing dir: 900 Wire out: Sorted: 2 Kg Total catch: SPECIES Trachurus trecae Scomber japonicus PENNAEIDAE Total DATE:21/11/00 GEAR TY start stop duration TIME :17:21:28 17:26:48 5 (min LOG :4069.30 4069.59 0.28 FDEPTH: 109 109 BDEPTH: 109 109 Towing dir: 2700 Wire out: Sorted: 64 Kg Total catch: SPECIES	Validity code: 140 m Speed: 30 5000.00 CAT CATCH/HOUR weight numbers 31860.60 1542300 5636.63 484748 2.78 8 37500.01 PE: PT No:1 POS) Purpose code: Area code : GearCond.code: Validity code: 200 m Speed: 32 2.12 CAT CATCH/HOUR weight numbers 78.00 300 12.00 480 12.00 480 12.00 180 4.80 60 12.00 80 12.00 80 12.00 80 12.00 80 12.00 80 12.00 80 12.00 80 12.00 80 12.00 180 12.00 180 12.00 180 12.00 180 12.00 180 12.00 180 12.00 180 12.00 80 12.00 180 12.00 80 12.00 180 12.00 80 12.00 180 12.00 80 12.00 180 12.00 180 12.00 80 12.00 180 12.00 180 12.00 180 12.00 180 12.00 187 10.00 18	kn*10 CH/HOUR: 37500.00 * OF TOT. C SAMP 84.96 2314 15.03 2313 0.01 100.00 ROJECT STATION:1263 ITTON:Lat N 2130 Long W 1727 1 2 kn*10 CH/HOUR: 127.20 * OF TOT. C SAMP 61.32 15.09 9.43 3.77 0.94 99.98 ROJECT STATION:1264 ITTON:Lat N 2140 Long W 1726 1 3 kn*10 CH/HOUR: 24060.00 * OF TOT. C SAMP 84.16 2316 12.47 2318 2.49 2315 0.70 2317		
Towing dir: 1900 Wire out: Sorted: 41 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Campogramma glaycos Total DATE:21/11/00 GEAR TY Start stop duration TIME :14:47:40 14:48:41 1 (min LOG :4050.07 4050.13 0.09 FDEPTH: 100 100 BDEPTH: 102 102 Towing dir: 900 Wire out: Sorted: 2 Kg Total catch: SPECIES Trachurus trecae Scomber japonicus Serranus africana Total DATE:21/11/00 GEAR TY Start stop duration TIME :17:21:28 17:26:48 5 (min LOG :4069.30 4069.59 0.28 FDEPTH: 109 109 EDEPTH: 109 100 EDEPTH: 109 109 EDEPTH: 109 1	Validity code: 140 m Speed: 30 5000.00 CAT CATCH/HOUR weight numbers 31860.60 1542300 5636.63 484748 2.78 8 37500.01 PE: PT No:1 POS) Purpose code: Area code : GearCond.code: Validity code: 200 m Speed: 32 2.12 CAT CATCH/HOUR weight numbers 78.00 300 12.00 480 12.00 480 12.00 180 4.80 60 12.00 80 12.00 80 12.00 80 12.00 80 12.00 80 12.00 80 12.00 80 12.00 80 12.00 180 12.00 180 12.00 180 12.00 180 12.00 180 12.00 180 12.00 180 12.00 80 12.00 180 12.00 80 12.00 180 12.00 80 12.00 180 12.00 80 12.00 180 12.00 180 12.00 180 12.00 187 13.00 187 14.00 187 15.00 1	kn*10 CH/HOUR: 37500.00 * OF TOT. C SAMP 84.96 2314 15.03 2313 0.01 100.00 ROJECT STATION:1263 ITTON:Lat N 2130 Long W 1727 1 2 kn*10 CH/HOUR: 127.20 * OF TOT. C SAMP 61.32 15.09 9.43 3.77 0.94 99.98 ROJECT STATION:1264 ITTON:Lat N 2140 Long W 1726 1 3 kn*10 CH/HOUR: 24060.00 * OF TOT. C SAMP 84.16 2316 12.47 2318 2.49 2315 0.70 2317 0.16		
DATE:21/11/00 GEAR TY	PE: BT No:2	PF 2 POSI	ROJECT STATI	N 2140
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start stop duration TIME :21:05:27 21:23:03 18 (min) Purpose	code:	Long	W 1700
LOG :4104.94 4105.89 0.95	Area coo	le :	3	
FDEPTH: 25 25 BDEPTH: 25 25	GearCond Validity	1.code: / code:		
Towing dir: 355ø Wire out:	120 m Spe	eed: 30	kn*10	
Sorted: 30 Kg Total catch:	584.61	CATO	CH/HOUR: 1	948.70
SPECIES	CATCH/H	IOUR	% OF TOT. C	SAMP
Sardina pilchardus	weight r 373.33	1umbers 38033	19.16	2319
Diplodus bellottii	281.40	4153	14.44	
Decapterus rhonchus	237.07	7793	12.17	
Engraulis encrasicolus Mustelus mustelus	176.40 168.33	33460 137	9.05 8.64	2320
Plectorhinchus mediterraneus	165.13	127	8.47	
Pagellus bellottii	35.00	2250	1.80	
Galeoides decadactylus	28.00	187	1.44	
Torpedo torpedo	12.70	17	0.65	
Diplodus sargus * Dentex canariensis	9.07 8.33	17 40	0.47	
Dasyatis centroura	5.80	3	0.30	
Umbrina canariensis	5.87	13	0.29	
Argyrosomus regius	4.73	1960	0.24	
Rhinobatos rhinobatos	4.33	3	0.21	
Raja microocellata Pomadasys peroteti	2.97	3 140	0.15	
Diplodus vulgaris	2.77	3	0.14	
Parapristipoma octolineatum	1.87	280	0.10	
Total	1948.69		100.00	
DATE:22/11/00 GEAR TY	PE: PT No:1	PF POST	OJECT STATI	ON:1266 N 2200
start stop duration			Long	W 1721
TIME :02:39:07 02:49:23 10 (min LOG :4156.88 4157.60 0.71) Purpose Area cod	code: le :	2	
FDEPTH: 30 35	GearCond	1.code:		
Towing dir: 270ø Wire out:	140 m Spe	eed: 35	kn*10	
Sorted: 73 Kg Total catch:	1380.00	CATO	CH/HOUR: 8	280.00
SPECIES	CATCH/H	IOUR	% OF TOT. C	SAMP
Sardina pilchardus	weight r 8071.20	umbers 65400	97.48	2321
Trachurus trecae	100.80	1080	1.22	2322
Lagocephalus lagocephalus	60.00	1 211		
Sarda sarda	24.00	24	0.29	
Sarda sarda Scomber japonicus	24.00 24.00	24 120	0.29	
Sarda sarda Scomber japonicus Total —	24.00 24.00 8280.00	24 120	0.29 0.29 100.00	
Sarda sarda Scomber japonicus — Total —	24.00 24.00 8280.00	24 120	0.29 0.29 100.00	
Sarda sarda Scomber japonicus Total DATE:22/11/00 GEAR TY	24.00 24.00 8280.00	24 120 PF	0.29 0.29 100.00 ROJECT STATI	ON:1267 N 2200
Sarda sarda Scomber japonicus — Total — DATE:22/11/00 GEAR TY Start stop duration TIME -05:00:20 05:2012 - 20 (min	24.00 24.00 8280.00 PE: PT No:1	24 120 PF L POSI	0.29 0.29 100.00 ROJECT STATI	ON:1267 N 2200 W 1706
Sarda sarda Scomber japonicus — Total — DATE:22/11/00 GEAR TY start stop duration TIME :05:02:22 05:32:13 30 (min LOG :4175.29 4177.20 1.89	24.00 24.00 8280.00 PE: PT No:1 .) Purpose Area coc	24 120 PF L POSI code: de :	0.29 0.29 100.00 ROJECT STATI TION:Lat Long 1 2	ON:1267 N 2200 W 1706
Sarda sarda Scomber japonicus — Total — DATE:22/11/00 GEAR TY start stop duration TIME :05:02:22 05:32:13 30 (min LOG :4175.29 4177.20 1.89 FDEPTH: 40 35 BREPETH: 57 60	24.00 24.00 8280.00 PE: PT No:1 .) Purpose Area coc GearConc Validity	24 120 PF L POSI code: de : l.code: code:	COJECT STATI TION:Lat Long 2	ON:1267 N 2200 W 1706
Sarda sarda Scomber japonicus Total DATE:22/11/00 GEAR TY start stop duration TIME :05:02:22 05:32:13 30 (min LOG :4175.29 4177.20 1.89 FDEPTH: 40 35 BDEPTH: 57 60 Towing dir: 2700 Wire out:	24.00 24.00 8280.00 PE: PT No:1 .) Purpose Area coc GearCond Validity 140 m Spe	24 120 PF POSI code: de : 1.code: y code: sed: 35	C.29 0.29 100.00 COJECT STATI TION:Lat Long 1 2 kn*10	ON:1267 N 2200 W 1706
Sarda sarda Scomber japonicus Total DATE:22/11/00 GEAR TY start stop duration TIME:05:02:22 05:32:13 30 (min LOG :4175.29 4177.20 1.89 FDEPTH: 40 35 BDEPTH: 57 60 Towing dir: 270ø Wire out: Sorted: 11 Kg Total catch:	24.00 24.00 8280.00 PE: PT No:1 .) Purpose Area coo GearConc Validity 140 m Spe 11.94	24 120 PF L POSI code: de : l.code: y code: ced: 35 CATC	c).29 0.29 100.00 ROJECT STATI TION:Lat Long 1 2 kn*10 CH/HOUR:	ON:1267 N 2200 W 1706 23.88
Sarda sarda Scomber japonicus Total DATE:22/11/00 GEAR TY start stop duration TIME:05:02:22 05:32:13 30 (min LOG :4175.29 4177.20 1.89 FDEPTH: 40 35 FDEPTH: 57 60 Towing dir: 270ø Wire out: Sorted: 11 Kg Total catch: SPECIES	24.00 24.00 8280.00 PE: PT No:1) Purpose Area coc GearConc Validity 140 m Spe 11.94 CATCH/H	24 120 PFL POSI code: ie : 1.code: y code: sed: 35 CATC HOUR	0.29 0.29 100.00 COJECT STATI TION:Lat Long 1 2 kn*10 CH/HOUR: % OF TOT. C	ON:1267 N 2200 W 1706 23.88 SAMP
Sarda sarda Scomber japonicus Total DATE:22/11/00 GEAR TY start stop duration TIME :05:02:22 05:32:13 30 (min LOG :4175.29 4177.20 1.89 FDEPTH: 40 35 FDEPTH: 57 60 Towing dir: 270ø Wire out: Sorted: 11 Kg Total catch: SPECIES	24.00 24.00 24.00 8280.00 PE: PT No:1) Purpose Area coc GearCont Validity 140 m Spe 11.94 cATCH/F weight m	24 120 PFL POSI code: de : l.code: code: ded: 35 CATC HOUR humbers	0.29 0.29 100.00 ROJECT STATI TION:Lat Long 1 2 kn*10 CH/HOUR: % OF TOT. C	ON:1267 N 2200 W 1706 23.88 SAMP
Sarda sarda Scomber japonicus Total DATE:22/11/00 GEAR TY start stop duration TIME :05:02:22 05:32:13 30 (min LOG :4175.29 4177.20 1.89 FDEPTH: 40 35 FDEPTH: 57 60 Towing dir: 270ø Wire out: Sorted: 11 Kg Total catch: SPECIES Trichiurus lepturus Loligo vulgaris	24.00 24.00 24.00 8280.00 PE: PT No:1) Purpose Area coc GearCond Validity 140 m Spe 11.94 cATCH/F weight r 19.00 2.60	24 120 PFL POSI code: de : 1.code: y code: sed: 35 CATC HOUR humbers 2338	0.29 0.29 100.00 COJECT STATI TION:Lat Long 1 2 kn*10 CH/HOUR: % OF TOT. C 79.56 10.89	ON:1267 N 2200 W 1706 23.88 SAMP
Sarda sarda Scomber japonicus Total DATE:22/11/00 GEAR TY start stop duration TIME :55:02:22 05:32:13 30 (min LOG :4175.29 4177.20 1.89 FDEPTH: 40 35 BDEPTH: 57 60 Towing dir: 270ø Wire out: Sorted: 11 Kg Total catch: SPECIES Trichiurus lepturus Loligo vulgaris Sardinella aurita Septa officinalis bierredda	24.00 24.00 24.00 8280.00 PE: PT No:1) Purpose Area coo GearCond Validity 140 m Spe 11.94 cATCH/F weight r 19.00 2.60 1.28 0.44	24 24 120 PFL POSI code: 1 code: 1 cod	0.29 0.29 100.00 COJECT STATI TION:Lat Long 1 2 kn*10 CH/HOUR: % OF TOT. CC 79.56 10.89 5.36 1 84	ON:1267 N 2200 W 1706 23.88 SAMP
Sarda sarda Scomber japonicus Total DATE:22/11/00 GEAR TY start stop duration TIME :05:02:22 05:32:13 30 (min LOG :4175.29 4177.20 1.89 FDEPTH: 40 35 BDEPTH: 57 60 Towing dir: 270ø Wire out: Sorted: 11 Kg Total catch: SPECIES Trichiurus lepturus Loligo vulgaris Sardinella aurita Sepia officinalis hierredda Scomber japonicus	24.00 24.00 24.00 8280.00 PE: PT No:1) Purpose Area coc GearCond Validity 140 m Spe 11.94 CATCH/F weight r 19.00 2.60 1.28 0.44 0.40	24 24 120 PFL POSI code: 1 code: 1 cod	0.29 0.29 100.00 COJECT STATI TION:Lat Long 1 2 kn*10 CH/HOUR: % OF TOT. CC 79.56 10.89 5.36 1.84 1.68	ON:1267 N 2200 W 1706 23.88 SAMP
Sarda sarda Scomber japonicus Total DATE:22/11/00 GEAR TY start stop duration TIME :05:02:22 05:32:13 30 (min LOG :4175.29 4177.20 1.89 FDEPTH: 40 35 BDEPTH: 57 60 Towing dir: 270ø Wire out: Sorted: 11 Kg Total catch: SPECIES Trichiurus lepturus Loligo vulgaris Sardinella aurita Sepia officinalis hierredda Scomber japonicus Allotheutis subulata Trachurus, Juveniles	24.00 24.00 24.00 8280.00 PE: PT No:1) Purpose Area coc GearCond Validity 140 m Spe 11.94 CATCH/F weight r 19.00 2.60 1.28 0.44 0.40 0.14 0.02	24 24 120 PF POSI code: de : de : l.code: v.code: sed: 35 CATC HOUR 12 338 8 2 2 2 2 16 2 2	0.29 0.29 100.00 COJECT STATI TION:Lat Long 1 2 kn*10 CH/HOUR: % OF TOT. CC 79.56 10.89 5.36 1.84 1.68 0.59 0.08	ON:1267 N 2200 W 1706 23.88 SAMP
Sarda sarda Scomber japonicus Total DATE:22/11/00 GEAR TY start stop duration TIME :55:02:22 05:32:13 30 (min LOG :4175.29 4177.20 1.89 FDEPTH: 40 35 BDEPTH: 57 60 Towing dir: 270ø Wire out: Sorted: 11 Kg Total catch: SPECIES Trichiurus lepturus Loligo vulgaris Sardinella aurita Sepia officinalis hierredda Scomber japonicus Allotheutis subulata Trachurus, Juveniles	24.00 24.00 24.00 8280.00 PE: PT No:1) Purpose Area coo GearCond Validity 140 m Spe 11.94 CATCH/H weight r 19.00 2.60 1.28 0.44 0.40 0.14 0.02	24 24 120 PF POSI code: de : de : de : de : de : de : de : d	0.29 0.29 100.00 COJECT STATI TTION:Lat Long 1 2 kn*10 CH/HOUR: % OF TOT. CC 79.56 10.89 5.36 1.84 1.68 0.59 0.08	ON:1267 N 2200 W 1706 23.88 SAMP
Sarda sarda Scomber japonicus Total DATE:22/11/00 GEAR TY start stop duration TIME :55:02:22 05:32:13 30 (min LOG :4175.29 4177.20 1.89 FDEPTH: 40 35 BDEPTH: 57 60 Towing dir: 270ø Wire out: Sorted: 11 Kg Total catch: SPECIES Trichiurus lepturus Loligo vulgaris Sardinella aurita Sepia officinalis hierredda Scomber japonicus Allotheutis subulata Trachurus, Juveniles Total	24.00 24.00 24.00 8280.00 PE: PT No:1) Purpose Area coo GearCond Validity 140 m Spe 11.94 CATCH/H weight r 19.00 2.60 1.28 0.44 0.40 0.14 0.02 23.88	24 24 120 PF POST ide : ide :	0.29 0.29 100.00 COJECT STATI TTION:Lat Long 1 2 kn*10 CH/HOUR: % OF TOT. CC 79.56 10.89 5.36 1.84 1.68 0.59 0.08 100.00	ON:1267 N 2200 W 1706 23.88 SAMP
Sarda sarda Scomber japonicus Total DATE:22/11/00 GEAR TY start stop duration TIME :05:02:22 05:32:13 30 (min LOG :4175.29 4177.20 1.89 FDEPTH: 40 35 BDEPTH: 57 60 Towing dir: 270ø Wire out: Sorted: 11 Kg Total catch: SPECIES Trichiurus lepturus Loligo vulgaris Sardinella aurita Sepia officinalis hierredda Scomber japonicus Allotheutis subulata Trachurus, Juveniles Total	24.00 24.00 24.00 8280.00 PE: PT No:1) Purpose Area coc GearCond Validity 140 m Spe 11.94 CATCH/F weight r 19.00 2.60 1.28 0.44 0.40 0.14 0.02 23.88	24 24 120 Posti code: il.code: il.code: sed: 35 CATC HOUR humbers 12 338 8 8 2 2 16 2 2 FF	0.29 0.29 100.00 COJECT STATI TION:Lat Long 1 2 kn*10 CH/HOUR: % OF TOT. C 79.56 10.89 5.36 1.64 1.68 0.59 0.00 20 20 20 20 20 20 20 20 20	ON:1267 N 2200 W 1706 23.88 SAMP ON:1268
Sarda sarda Scomber japonicus Total DATE:22/11/00 GEAR TY start stop duration TIME:05:02:22 05:32:13 30 (min LOG :4175.29 4177.20 1.89 FDEPTH: 40 35 BDEPTH: 57 60 Towing dir: 270ø Wire out: Sorted: 11 Kg Total catch: SPECIES Trichiurus lepturus Loligo vulgaris Sardinella aurita Sepia officinalis hierredda Scomber japonicus Allotheutis subulata Trachurus, Juveniles Total DATE:22/11/00 GEAR TY	24.00 24.00 24.00 8280.00 PE: PT No:1) Purpose Area coo GearCond Validity 140 m Spe 11.94 CATCH/F weight r 19.00 2.60 1.28 0.44 0.40 0.14 0.02 23.88 PE: BT No:2	24 24 120 Posl code: ile : il.code: y code: sed: 35 CATC HOUR humbers 12 338 8 8 2 2 16 2 2 FF 2 POSI	0.29 0.29 100.00 COJECT STATI TION:Lat Long 1 2 kn*10 CH/HOUR: % OF TOT. CC 79.56 10.89 5.36 1.68 0.59 0.08 1.68 0.59 0.08 1.68 0.59 0.00 CH/HOUR: % OF TOT. CC 79.56 1.68 0.59 0.00 CH/HOUR: % OF TOT. CC 79.56 1.68 0.59 0.00	ON:1267 N 2200 W 1706 23.88 SAMP ON:1268 N 2235 U 1706
Sarda sarda Scomber japonicus Total DATE:22/11/00 GEAR TY start stop duration TIME :05:02:22 05:32:13 30 (min LOG :4175.29 4177.20 1.89 FDEPTH: 40 35 BDEPTH: 57 60 Towing dir: 270ø Wire out: Sorted: 11 Kg Total catch: SPECIES Trichiurus lepturus Loligo vulgaris Sardinella aurita Sepia officinalis hierredda Scomber japonicus Allotheutis subulata Trachurus, Juveniles Total DATE:22/11/00 GEAR TY start stop duration TIME :21:48:19 22:17:27 29 (min	24.00 24.00 24.00 8280.00 PE: PT No:1) Purpose Area coo GearCond Validity 140 m Spe 11.94 CATCH/H weight r 19.00 2.60 1.28 0.44 0.40 0.14 0.02 23.88 PE: BT No:2	24 24 120 PF POSI code: ile : il.code: y code: ile : il.code: sed: 35 CATC HOUR humbers 2 2 16 2 PF 2 POSI code:	0.29 0.29 100.00 COJECT STATI TION:Lat Long 1 2 kn*10 CH/HOUR: % OF TOT. CC 79.56 10.89 5.36 1.84 1.68 0.59 0.08 1.68 0.59 0.00 CH/HOUR: % OF TOT. CC 79.50 1.84 1.68 0.59 0.00 CH/HOUR: % OF TOT. CC 79.50 1.84 1.68 0.59 0.00 1.89 5.36 1.84 1.68 0.59 0.00 1.89 5.36 1.84 1.68 0.59 0.00 1.89 5.36 1.84 1.68 0.59 0.00 1.89 5.36 1.84 1.68 0.59 0.00 1.89 1.84 1.68 0.59 0.00 1.89 1.84 1.68 0.59 1.84 1.68 0.59 1.89 1.84 1.68 0.59 1.00 1.68 1.84 1.68	ON:1267 N 2200 W 1706 23.88 SAMP ON:1268 N 2235 W 1706
Sarda sarda Scomber japonicus Total DATE:22/11/00 GEAR TY start stop duration TIME :05:02:22 05:32:13 30 (min LOG :4175.29 4177.20 1.89 FDEPTH: 40 35 BDEPTH: 57 60 Towing dir: 270ø Wire out: Sorted: 11 Kg Total catch: SPECIES Trichiurus lepturus Loligo vulgaris Sardinella aurita Sepia officinalis hierredda Scomber japonicus Allotheutis subulata Trachurus, Juveniles Total DATE:22/11/00 GEAR TY start stop duration TIME :21:48:19 22:17:27 29 (min LOG :4345.59 4347.15 1.55 FDEPTH: 68 76	24.00 24.00 24.00 8280.00 PE: PT No:1) Purpose Area coo GearCond Validity 140 m Spe 11.94 CATCH/F weight r 19.00 2.60 1.28 0.44 0.40 0.14 0.02 23.88 PE: BT No:2) Purpose Area coo GearCond	24 24 120 PGS1 code: il.code: y code: sed: 35 CATC HOUR humbers 12 338 8 8 2 2 16 2 9 FF 2 POSI code: il.code: 12 3 3 8 8 2 2 16 2 16 2 16 2 16 2 16 2 16 2 1	0.29 0.29 100.00 ROJECT STATI TION:Lat Long 1 2 kn*10 CH/HOUR: % OF TOT. CC 79.56 10.89 5.36 1.84 1.68 0.59 0.08 1.68 0.59 0.08 1.68 0.59 0.00 ROJECT STATI TION:Lat Long 1 3	ON:1267 N 2200 W 1706 23.88 SAMP ON:1268 N 2235 W 1706
Sarda sarda Scomber japonicus Total DATE:22/11/00 GEAR TY start stop duration TIME :05:02:22 05:32:13 30 (min LOG :4175.29 4177.20 1.89 FDEPTH: 40 35 BDEPTH: 57 60 Towing dir: 270ø Wire out: Sorted: 11 Kg Total catch: SPECIES Trichiurus lepturus Loligo vulgaris Sardinella aurita Sepia officinalis hierredda Scomber japonicus Allotheutis subulata Trachurus, Juveniles Total DATE:22/11/00 GEAR TY start stop duration TIME :21:48:19 22:17:27 29 (min LOG :4345.59 4347.15 1.55 FDEPTH: 68 76 BDEPTH: 68 76 BDEPTH: 68 76	24.00 24.00 24.00 8280.00 PE: PT No:1) Purpose Area coo GearCond Validity 140 m Spe 11.94 CATCH/F weight r 19.00 2.60 1.28 0.44 0.40 0.14 0.02 23.88 PE: BT No:2) Purpose Area coo GearCond Validity 12.88	24 24 120 PGS1 code: ie : i.code: y code: ie : 12 338 8 2 2 16 2 PF1 2 POS1 code: ie : 1.code: 2 2 POS1 code: 16 2 2 POS1 code: 16 2 2 POS1 code: 16 2 POS1 Code: 16 2 POS1 Code: 16 2 POS1 Code: 16 2 POS1 Code: 16 2 POS1 COS POS1 COS POS1 COS POS1 COS POS1 POS1 POS1 POS1 POS1 POS1 POS1 PO	0.29 0.29 100.00 COJECT STATI TION:Lat Long 1 2 kn*10 CH/HOUR: % OF TOT. CC 79.56 10.89 5.36 1.84 1.68 0.59 0.08 1.84 1.68 0.59 0.00 CH/HOUR: % OF TOT. CC 79.56 1.84 1.68 0.59 0.00 CH/HOUR: % OF TOT. CC 1.89 5.36 1.84 1.68 0.59 0.00 CH/HOUR: % OF TOT. CC 1.89 5.36 1.84 1.68 0.59 0.00 CH/HOUR: % OF TOT. CC 79.56 1.84 1.68 0.59 0.00 CH/HOUR: % OF TOT. CC 1.89 1.84 1.88 0.59 0.00 CH/HOUR: % OF TOT. CC 1.89 1.84 1.88 0.59 0.00 1.89 1.84 1.88 0.59 0.00 1.89 1.84 1.88 0.59 1.84 1.84 1.88	ON:1267 N 2200 W 1706 23.88 SAMP ON:1268 N 2235 W 1706
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Sarda sarda Scomber japonicus Total DATE:22/11/00 GEAR TY start stop duration TIME :05:02:22 05:32:13 30 (min LOG :4175.29 4177.20 1.89 FDEPTH: 40 16 Towing dir: 270ø Wire out: Sorted: 11 Kg Total catch: SPECIES Trichiurus lepturus Loligo vulgaris Sardinella aurita Sepia officinalis hierredda Scomber japonicus Allotheutis subulata Trachurus, Juveniles Total DATE:22/11/00 GEAR TY start stop duration TIME :21:48:19 22:17:27 29 (min LOG :4345.59 4347.15 1.55 FDEPTH: 68 76 BDEPTH: 68 76 Towing dir: 290ø Wire out: Sorted: 44 Kg Total catch: SPECIES Trachurus trachurus Trachurus tracae Zeus faber Loligo vulgaris Pagellus bellottii Aspitrigla obscura Dentex macrophthalmus Merluccius polli Lepidotrigla sp. Trachinus draco Citharus linguatula Arnoglossus thori	24.00 24.00 24.00 8280.00 PE: PT No:1) Purpose Area cod GearCond Validity 140 m Spe 11.94 CATCH/H weight r 19.00 2.60 1.28 0.44 0.14 0.02 23.88 PE: BT No:2 23.88 PE: BT No:2 23.88 PE: BT No:2 23.88 PE: BT No:2 23.88 PE: Area cod GearCond Validity 240 m Spe 44.54 CATCH/H weight r 43.86 22.97 7.97 4.08 3.89 3.10 3.08 0.87 0.74 0.52 0.52 0.21	24 24 24 24 24 24 24 24 26 20 20 20 20 20 20 20 20 20 20 20 20 20	0.29 0.29 0.29 100.00 COJECT STATI TION:Lat Long 1 2 kn*10 CH/HOUR: % OF TOT. CC 79.56 1.84 1.68 0.59 0.08 100.00 CH/HOUR: % OF TOT. CC CH/HOUR: % OF TOT. CC COJECT STATI TION:Lat Long 1 3 kn*10 CH/HOUR: % OF TOT. C 47.60 24.93 8.65 4.43 4.22 3.65 0.24 0.59 0.24 0.59 0.24 0.59 0.00	ON:1267 N 2200 W 1706 23.88 SAMP 0N:1268 N 2235 W 1706 92.15 SAMP 2323 2324
Sarda sarda Scomber japonicus Total DATE:22/11/00 GEAR TY start stop duration TIME :05:02:22 05:32:13 30 (min LOG :4175.29 4177.20 1.89 FDEPTH: 40 177.20 1.89 FDEPTH: 57 60 Towing dir: 270ø Wire out: Sorted: 11 Kg Total catch: SPECIES Trichiurus lepturus Loligo vulgaris Sardinella aurita Sepia officinalis hierredda Scomber japonicus Allotheutis subulata Trachurus, Juveniles Total DATE:22/11/00 GEAR TY start stop duration TIME :21:48:19 22:17:27 29 (min LOG :4345.59 4347.15 1.55 FDEPTH: 68 76 BDEPTH: 68 76 Towing dir: 290ø Wire out: Sorted: 44 Kg Total catch: SPECIES Trachurus trachurus Trachurus trecae Zeus faber Loligo vulgaris Pagellus bellottii Aspitrigla obscura Dentex macrophthalmus Merluccius polli Lepidotrigla sp. Trachinus draco Citharus linguatula Arnoglossus thori Solea senegalensis Trachurus vipera	24.00 24.00 24.00 8280.00 PE: PT No:1) Purpose Area cod GearCond Validity 140 m Spe 11.94 CATCH/H weight r 19.00 2.60 1.28 0.44 0.14 0.02 23.88 PE: BT No:2 23.88 PE: BT No:2 23.88 PE: BT No:2 23.88 PE: BT No:2 23.88 PE: Area cod GearCond Validity 240 m Spe 44.54 CATCH/H weight r 43.86 22.97 7.97 4.08 3.89 3.10 3.08 0.87 0.74 0.52 0.21 0.14 0.02	24 24 24 24 24 24 24 26 26 26 26 27 26 26 27 26 26 27 26 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 27 26 27 27 26 27 27 27 27 27 27 27 27 27 27 27 27 27	0.29 0.29 0.29 100.00 COJECT STATI TION:Lat Long 1 2 kn*10 CH/HOUR: % OF TOT. CC 79.56 10.89 5.36 1.84 1.68 0.59 0.08 100.00 CH/HOUR: % OF TOT. CC CH/HOUR: % OF TOT. CC 40.60 24.93 8.65 4.43 4.22 3.65 4.43 4.22 3.65 4.43 4.22 3.65 4.34 0.94 0.59 0.59 0.59 0.50 0.00 0.50 0.50 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.50 0.0	ON:1267 N 2200 W 1706 23.88 SAMP 0N:1268 N 2235 W 1706 92.15 SAMP 2323 2324
Sarda sarda Scomber japonicus Total DATE:22/11/00 GEAR TY start stop duration TIME :05:02:22 05:32:13 30 (min LOG :4175.29 4177.20 1.89 FDEPTH: 40 35 BDEPTH: 57 60 Towing dir: 270ø Wire out: Sorted: 11 Kg Total catch: SPECIES Trichiurus lepturus Loligo vulgaris Sardinella aurita Sepia officinalis hierredda Scomber japonicus Allotheutis subulata Trachurus, Juveniles Total DATE:22/11/00 GEAR TY start stop duration TIME :21:48:19 22:17:27 29 (min LOG :4345.59 4347.15 1.55 FDEPTH: 68 76 BDEPTH: 68 76 BDEPTH: 68 76 SYECIES Trachurus trachurus Trachurus trachurus Trachurus trachurus Trachurus trachurus Merluccius polli Lepidotrigla sp. Trachinus draco Citharus linguatula Arnoglossus thori Sotal	24.00 24.00 24.00 8280.00 PE: PT No:1) Purpose Area coc GearCond Validity 140 m Spe 11.94 CATCH/H weight r 19.00 2.60 1.28 0.44 0.40 0.14 0.02 23.88 PE: BT No:2) Purpose Area coc GearCond Validity 240 m Spe Area coc GearCond Validity 240 m Spe 44.54 CATCH/H weight r 43.86 22.97 7.97 4.08 3.89 3.10 3.087 0.74 0.64 0.52 0.21 0.14 0.052	24 24 24 120 PGS1 code: lec: lec: sed: 35 CATC HOUR 12 338 8 2 2 16 2 2 16 2 2 16 2 2 16 2 2 2 16 2 2 16 2 2 16 2 2 16 2 2 16 2 2 16 2 10 16 2 10 16 2 10 16 2 10 16 2 10 16 10 10 10 10 10 10 10 10 10 10 10 10 10	0.29 0.29 0.29 100.00 COJECT STATI TION:Lat Long 1 2 kn*10 CH/HOUR: % OF TOT. CC 79.56 10.89 5.36 1.84 1.68 0.59 0.08 100.00 CH/HOUR: % OF TOT. CC COJECT STATI TION:Lat Long 1 3 kn*10 CH/HOUR: % OF TOT. C 47.60 24.93 8.65 4.43 4.22 3.66 3.34 0.69 0.56 0.29 0.09 0.99 0.99 0.99 0.99	ON:1267 N 2200 W 1706 23.88 SAMP 0N:1268 N 2235 W 1706 92.15 SAMP 2323 2324

	PROJECT STATION:1269
DATE:23/11/00 GEAR T	YPE: BT No:2 POSITION:Lat N 2228
start stop duration	Long W 1639
TIME :01:38:11 02:08:09 30 (mi	n) Purpose code: 1
LOG :4377.29 4378.90 1.60	Area code : 2
FDEPTH: 38 40	GearCond.code:
BDEPTH: 38 40	Validity code:
Towing dir: 285ø Wire out	: 160 m Speed: 30 kn*10
Control: 40 Kg	· 77.04 GATCH/HOUD · 155.60
Sorred: 42 kg Total Catch	· //.84 CAICH/HOUR• 155.88
SPECIES	CATCH/HOUR % OF TOT. C SAMP
	weight numbers
Pagellus bellottii	48.48 1200 31.14
Loligo vulgaris	40.40 1108 25.95
Decapterus rhonchus	26.04 1092 16.73
Trachurus trecae	21.00 204 13.49 2325
Octopus vulgaris	7.40 8 4.75
Chelidonichthys obscurus	7.20 222 4.62
Spondyliosoma cantharus	1.80 84 1.16
Pomadasys incisus	1.20 6 0.77
Trachurus trachurus	0.96 42 0.62
Mullus surmuletus	0.60 18 0.39
Sepia officinalis hierredda	0.48 12 0.31
Syacium micrurum	0.12 12 0.08
Total –	155.68 100.01

	P	ROJECT STATI	ON:1270
DATE:23/11/00 GEAR TY	PE: BT No:2 POS	ITION:Lat	N 2306
start stop duration		Long	W 1628
TIME :23:23:03 23:53:23 30 (min) Purpose code:	1	
LOG :4598.25 4600.02 1.75	Area code :	2	
FDEPTH: 30 31	GearCond.code:		
BDEPTH: 30 31	Validity code:		
Towing dir: 190ø Wire out:	140 m Speed: 30	kn*10	
Sorted: 30 Kg Total catch:	91.59 CAT	CH/HOUR:	183.18
SPECIES	CATCH/HOUR	% OF TOT. C	SAMP
	weight numbers		
Engraulis encrasicolus	82.80 5552	45.20	2327
SOLEIDAE	36.60	19.98	
Sardina pilchardus	24.00 696	13.10	2326
Chelidonichthys obscurus	22.80	12.45	
Loligo vulgaris	11.40	6.22	
Trachurus trecae	2.40 12	1.31	
Callionymus lyra	1.20 36	0.66	
Trachinus vipera	0.90 12	0.49	
Pagellus bellottii	0.60 12	0.33	
Pagellus acarne	0.48 12	0.26	

Total

183.18

100.00

		DE	ATECT STAT	PTON	.1271
DATE: 24/11/00 GEAR TY	PE: PT No	:1 POSI	TTON:Lat	N	2326
start stop duration		- 1001	Long	W	1650
TIME :04:48:48 05:01:30 13 (min) Purpose	e code:	1		
LOG :4646.76 4647.59 0.82	Area co	ode :	2		
FDEPTH: 30 35	GearCo	nd.code:			
BDEPTH: 76 72	Validi	ty code:			
Towing dir: 124ø Wire out:	100 m Sp	peed: 35	kn*10		
Sorted: 38 Kg Total catch:	114.30) CATO	CH/HOUR:	52	7.54
OPECTED	CATION	/HOUD	* OF TOT	a	CAME
SPECIES	weight	numberg	% OF 101.	C	SAMP
Sardina pilchardus	509 54	11008	96 50	a	2328
Scomber japonicus	14.12	125	2.68	3	2329
Loligo vulgaris	3.88	28	0.74	ł	
				-	
Total	527.54		100.01		
		T	OTECT STAT	PTON	:1272
DATE:24/11/00 GEAR TY	PE: PT No	:6 POSI	TION:Lat	N	2344
start stop duration			Long	W	1613
TIME :21:33:28 22:03:12 30 (min) Purpose	e code:	1		
LOG :4822.24 4823.73 1.50	Area co	ode :	3		
FDEPTH: 10 10	GearCo	nd.code:			
BDEPTH: 37 38	Validi	ty code:			
Towing dir: 297ø Wire out:	150 m Sp	peed: 30	kn*10		
Sorted: 112 Kg Total catch:	112.79	9 CATO	CH/HOUR:	22	5.58

SPECIES	CATCH	/HOUR	% OF	TOT. C	SAMP
	weight	numbers			
Sardina pilchardus	196.40	2012		87.06	2330
Scomber japonicus	27.26	132		12.08	2331
Pagellus bellottii	0.70	4		0.31	
Trachurus trecae	0.48	6		0.21	
Spondyliosoma cantharus	0.34	10		0.15	
Aspitrigla obscura	0.34	8		0.15	
Trachinus draco	0.06	2		0.03	
Total	225.58			99.99	

		PI	ROJEC.	r stat	ION	:1273
DATE:25/11/00 GEAR TYP start stop duration	PE: BT No:2	POS	TION	Lat	N W	2346 1600
TIME :00:46:25 01:16:11 30 (min) LOG :4844.78 4846.55 1.75) Purpose o Area code	code:	1 2	Long		1000
FDEPTH: 28 26 BDEPTH: 28 26	GearCond. Validity	.code: code:				
Towing dir: 208ø Wire out:	120 m Spee	ed: 30	kn*10	כ		
Sorted: 46 Kg Total catch:	688.38	CATO	сн/нот	JR:	1376	5.76
SPECIES	САТСН/Н	NIR	% OF	TOT	C	SAMP
	weight nu	umbers	0 01		0	01111
Diplodus bellottii Pagellus bellottii	585.48 273.00	2730		42.53		
Spondyliosoma cantharus	178.92	6090		13.00		
Pagellus acarne	106.68	1806		7.75		
Trachurus trachurus Chelidonichthys obscurus	26.88 17.64	252 252		1.95		
Umbrina canariensis	15.12	42		1.10		
Halobatrachus didactylus	10.48	12		0.75		
Raja straeleni Plectorhinchus mediterraneus	7.88 7.56	4 42		0.57		
Argyrosomus regius	6.40	2		0.46		
Octopus vulgaris	1.52	42		0.24		
Loligo vulgaris Scomber japonicus	0.40	2		0.03		
		-				
Total	1376.76			99.99		
		PI	OJEC	r stat	TON	:1274
DATE:25/11/00 GEAR TYP start stop duration	PE: PT No:1	POS	TION	Lat	N W	2353 1605
TIME :02:51:17 03:06:09 15 (min)) Purpose of	code:	1	-		
FDEPTH: 18 18 RDEPTH: 35 34	GearCond. Validity	code:	2			
Tours dir: 110g Mins out:	00 m Crock		lem # 1 (- -		
Sorted: 34 Kg Total catch:	134.02	CATO	CH/HOU	JR:	53	5.08
SPECIES	CATCH/HO	DUR	% OF	TOT.	С	SAMP
Sardina pilchardus	weight nu 500.80	umbers 4208		93.42		2332
Scomber japonicus	28.80	128		5.37		
Trachurus trachurus	4.88	4 16		0.91		
Total	E26 09			100 00		
	530.00		-	100.00		
	550.08			100.00		
	330.00	PI	ROJEC	r stat	ION	:1275
DATE:25/11/00 GEAR TYP start stop duration	PE: PT No:1	PI POS:	ROJEC:	I STAT Lat Long	ION N W	:1275 2410 1619
DATE:25/11/00 GEAR TYI start stop duration TIME :10:25:04 10:39:24 14 (min) LOG :4929.83 4930.77 0.93	PE: PT No:1 Purpose of Area code	PI POS: code:	ROJEC ITION	r STAT Lat Long	ION N W	:1275 2410 1619
DATE:25/11/00 GEAR TY start stop duration TIME :10:25:04 10:39:24 14 (min) LOG :4929.83 4930.77 0.93 FDEPTH: 20 34	PE: PT No:1 Purpose of Area code GearCond	PI POS: code: code:	ROJEC TION 1 2	r STAT Lat Long	TON N W	:1275 2410 1619
DATE:25/11/00 GEAR TY start stop duration TIME :10:25:04 10:39:24 14 (min) LOG :4929.83 4930.77 0.93 FDEPTH: 20 34 BDEPTH: 67 69 Towing dir: 300ø Wire out:	PE: PT No:1) Purpose (Area code GearCond. Validity 130 m Spee	PI POS: code: code: code: code: 2d: 30	ROJEC TION 1 2 kn*10	r STAT Lat Long	TON N W	:1275 2410 1619
DATE:25/11/00 GEAR TYI start stop duration TIME :10:25:04 10:39:24 14 (min) LOG :4929.83 4930.77 0.93 FDEPTH: 20 34 BDEPTH: 67 69 Towing dir: 300ø Wire out: Sorted: Kg Total catch:	PE: PT No:1) Purpose of Area code GearCond. Validity 130 m Spee	PI POS: code: code: code: code: ad: 30	ROJEC ITION 1 2 kn*10	r STAT Lat Long	N N W	:1275 2410 1619
DATE:25/11/00 GEAR TYI start stop duration TIME :10:25:04 10:39:24 14 (min) LOG :4929.83 4930.77 0.93 FDEPTH: 20 34 BDEPTH: 67 69 Towing dir: 300ø Wire out: Sorted: Kg Total catch:	DE: PT No:1 Purpose of Area code GearCond. Validity m Speed 	PI POS: code: code: code: code: ad: 30 CATO	ROJEC ITION 1 2 kn*10 CH/HOU	r STAT :Lat Long JR:	ION N W	:1275 2410 1619
DATE:25/11/00 GEAR TYI start stop duration TIME :10:25:04 10:39:24 14 (min) LOG :4929.83 4930.77 0.93 FDEPTH: 20 34 BDEPTH: 67 69 Towing dir: 300ø Wire out: Sorted: Kg Total catch: SPECIES	DE: PT No:1) Purpose of Area code GearCond. Validity 130 m Spec CATCH/H(weight nu	PI POS: code: code: code: code: d: 30 CATO DUR umbers	ROJECT TION 2 kn*10 CH/HOU % OF	r STAT :Lat Long JR: TOT.	C C	:1275 2410 1619 SAMP
DATE:25/11/00 GEAR TYI start stop duration TIME :10:25:04 10:39:24 14 (min) LOG :4929.83 4930.77 0.93 FDEPTH: 20 34 BDEPTH: 67 69 Towing dir: 300ø Wire out: Sorted: Kg Total catch: SPECIES	DE: PT No:1 Purpose of Area code GearCond Validity 130 m Spec CATCH/HG weight nu	PI POS: code: code: code: code: d: 30 CATO DUR umbers	ROJEC TION 1 2 kn*10 CH/HOU % OF	r STAT :Lat Long JR: TOT.	C	:1275 2410 1619 SAMP
DATE:25/11/00 GEAR TYI start stop duration TIME :10:25:04 10:39:24 14 (min) LOG :4929.83 4930.77 0.93 FPDEPTH: 20 34 BDEPTH: 67 69 Towing dir: 300ø Wire out: Sorted: Kg Total catch: SPECIES Total	25:00 PURPOSE (Area code GearCond. Validity 130 m Spee CATCH/HC weight nu	PI POS: code: code: code: code: d: 30 CATO DUR imbers	ROJEC TION 1 2 kn*10 CH/HOU % OF	r STAT :Lat Long JR: TOT.	C	:1275 2410 1619 SAMP
DATE:25/11/00 GEAR TYI start stop duration TIME :10:25:04 10:39:24 14 (min) LOG :4929.83 4930.77 0.93 FDEPTH: 20 34 BDEPTH: 67 69 Towing dir: 300ø Wire out: Sorted: Kg Total catch: SPECIES Total	255.00 PE: PT No:1) Purpose of Area code GearCond. Validity 130 m Spee CATCH/HC weight nu	PI POS: code: code: code: d: 30 CATC DUR mbers	ROJEC ITION 1 2 kn*10 2 H/HOU % OF	r STAT	C C LION	:1275 2410 1619 SAMP
DATE:25/11/00 GEAR TYI start stop duration TIME :10:25:04 10:39:24 14 (min) LOG :4929.83 4930.77 0.93 FDEPTH: 20 34 BDEPTH: 67 69 Towing dir: 300ø Wire out: Sorted: Kg Total catch: SPECIES Total DATE:26/11/00 GEAR TYI start stop duration	255.05 PE: PT No:1) Purpose of Area code GearCond. Validity 130 m Spec CATCH/HC weight nu CATCH/HC weight nu PE: BT No:2	PI POS: code: code: ed: 30 CATO DUR IMDers PI POS:	ROJEC: TTION 1 2 kn*1(CH/HOU & OF 	r STAT Lat Long JR: TOT. TSTAT Lat Long	C C N N W	:1275 2410 1619 SAMP :1276 2424 1544
DATE:25/11/00 GEAR TYI start stop duration TIME :10:25:04 10:39:24 14 (min) LOG :4929.83 4930.77 0.93 FDEPTH: 20 34 BDEPTH: 67 69 Towing dir: 300ø Wire out: Sorted: Kg Total catch: SPECIES Total DATE:26/11/00 GEAR TYI start stop duration TIME :10:03:44 10:35:12 31 (min) LOG :5145 36 5147 12 1 71	<pre>PE: PT No:1) Purpose of Area code GearCond. Validity 130 m Spee CATCH/HC weight nu pe: BT No:2) Purpose of Area code</pre>	PI POS: code: code: ed: 30 CATO DUR Imbers PI POS: code:	ROJEC: TION 1 2 kn*10 2 H/HOU % OF 	r STAT :Lat Long JR: TOT. TOT. F STAT :Lat Long	C C N W N W	:1275 2410 1619 SAMP :1276 2424 1544
DATE:25/11/00 GEAR TYI start stop duration TIME :10:25:04 10:39:24 14 (min, LOG :4929.83 4930.77 0.93 FDEPTH: 20 34 BDEPTH: 67 69 Towing dir: 300ø Wire out: Sorted: Kg Total catch: SPECIES Total DATE:26/11/00 GEAR TYI start stop duration TIME :10:03:44 10:35:12 31 (min) LOG :5145.39 5147.12 1.71 FDEPTH: 33 31	25:00 PE: PT No:1) Purpose of Area code GearCond. Validity 130 m Spee CATCH/HC weight nu PE: BT No:2) Purpose of Area code GearCond.	PI POS: code: code: ed: 30 CATC DUR mbers POS: code: code: code:	ROJEC' TTION 1 2 kn*10 % OF ROJEC' TTION	r STAT Elat Long JJR: TOT. TOT.	C C N W	:1275 2410 1619 SAMP :1276 2424 1544
DATE:25/11/00 GEAR TYI start stop duration TIME :10:25:04 10:39:24 14 (min LGG :4929.83 4930.77 0.93 FDEPTH: 20 34 BDEPTH: 67 69 Towing dir: 300ø Wire out: Sorted: Kg Total catch: SPECIES Total DATE:26/11/00 GEAR TYI start stop duration TIME :10:03:44 10:35:12 31 (min) LGG St45.39 5147.12 1.71 FDEPTH: 33 31 BDEPTH: 33 31 Towing dir: 112ø Wire out:	255.05 PE: PT No:1) Purpose of Area code GearCond. Validity 130 m Spee CATCH/HK weight nu CATCH/HK weight nu PE: BT No:2) Purpose of Area code GearCond. Validity 150 m Spee 150 m Spee	PI POS: code: code: code: code: code: code: code: PI POS: code: co	ROJEC' TTION 1 2 kn*10 % OF ROJEC' TTION kn*10	r STAT Juat Long JUR: TOT.	C C VION W	:1275 2410 1619 SAMP :1276 2424 1544
DATE:25/11/00 GEAR TYI start stop duration TIME :10:25:04 10:39:24 14 (min LOG :4929.83 4930.77 0.93 FDEPTH: 20 34 BDEPTH: 67 69 Towing dir: 300ø Wire out: Sorted: Kg Total catch: SPECIES Total DATE:26/11/00 GEAR TYI start stop duration TIME :10:03:44 10:35:12 31 (min) LOG :5145.39 5147.12 1.71 FDEPTH: 33 31 BDEPTH: 33 31 Towing dir: 112@ Wire out:	2E: PT No:1) Purpose of Area code GearCond. Validity 130 m Spec CATCH/HC weight nu CATCH/HC weight nu PE: BT No:2) Purpose of Area code GearCond. Validity 150 m Spec 14 40	PI POS: code: code: code: code: CATY DUR POS: code: co	ROJECT TION 1 2 kn*10 CH/HOU & OF COJECT TION kn*10	r STAT Lat Long) JR: TOT. F STAT Long	C C VION W	:1275 2410 1619 SAMP :1276 2424 1544
DATE:25/11/00 GEAR TYI start stop duration TIME :10:25:04 10:39:24 14 (min) LOG :4929.83 4930.77 0.93 FDEPTH: 20 34 BDEPTH: 67 69 Towing dir: 300e Wire out: Sorted: Kg Total catch: SPECIES Total DATE:26/11/00 GEAR TYI start stop duration TIME :10:03:44 10:35:12 31 (min) LOG :5145.39 5147.12 1.71 FDEPTH: 33 31 BDEPTH: 33 31 TOWING dir: 112e Wire out: Sorted: 14 Kg Total catch:	PE: PT No:1) Purpose of Area code GearCond. Validity 130 m Spec CATCH/HK weight m PE: BT No:2) Purpose of Area code GearCond Validity 150 m Spec 14.40	PDS: code: code: code: code: code: code: pDUR pDS: code: cod	ROJEC: TTION 1 2 kn*10 CH/HOU kn*10 CH/HOU	r STAT Lat Long) JR: TOT. r STAT Lat Long JR:	C C N W 2'	:1275 2410 1619 SAMP :1276 2424 1544
DATE:25/11/00 GEAR TYI start stop duration TIME :10:25:04 10:39:24 14 (mini LGG :4929.83 4930.77 0.93 FDEPTH: 20 34 BDEPTH: 67 69 Towing dir: 300ø Wire out: Sorted: Kg Total catch: SPECIES Total DATE:26/11/00 GEAR TYI start stop duration TIME :10:03:44 10:35:12 31 (min) LGG :5145.39 5147.12 1.71 FDEPTH: 33 31 BDEPTH: 33 31 Towing dir: 112ø Wire out: Sorted: 14 Kg Total catch:	PE: PT No:1) Purpose of Area code GearCond. Validity 130 m Spec CATCH/HC weight nu PE: BT No:2) Purpose of Area code GearCond. Validity 150 m Spec 14.40	pp POS: code: code: code: code: code: pp: pos: code: co	ROJECTION 1 2 kn*10 % OF COJECTION kn*10 ch/HOU % OF	r STAT Llat Long J J J R: TOT.	C C C C C C C C C	:1275 2410 1619 SAMP :1276 2424 1544
DATE:25/11/00 GEAR TYI start stop duration TIME :10:25:04 10:39:24 14 (mini LGG :4929.83 4930.77 0.93 FDEPTH: 20 34 BDEPTH: 67 69 Towing dir: 300ø Wire out: Sorted: Kg Total catch: SPECIES Total DATE:26/11/00 GEAR TYI start stop duration TIME :10:03:44 10:35:12 31 (mini) LGG :5145.39 5147.12 1.71 FDEPTH: 33 31 BDEPTH: 33 31 Towing dir: 112ø Wire out: Sorted: 14 Kg Total catch: SPECIES Scomber japonicus	PE: PT No:1) Purpose of Area code GearCond. Validity 130 m Spec CATCH/HC weight nu PE: BT No:2) Purpose of Area code GearCond. Validity 150 m Spec 14.40 CATCH/HC weight nu 26.13	pp POS: code: code: code: code: code: pp: code: c	ROJECTION 1 2 kn*10 % OF COJECTION kn*10 ch/HOU % OF	r STAT Long J J IR: TOT. J J R: Long J J R: TOT. 93.76	C C C C C C C	:1275 2410 1619 SAMP :1276 2424 1544
DATE:25/11/00 GEAR TYI start stop duration TIME :10:25:04 10:39:24 14 (mini LGG :4929.83 4930.77 0.93 FDEPTH: 20 34 BDEPTH: 67 69 Towing dir: 300ø Wire out: Sorted: Kg Total catch: SPECIES Total DATE:26/11/00 GEAR TYI Start stop duration TIME :10:03:44 10:35:12 31 (min) LGG :5145.39 5147.12 1.71 FDEPTH: 33 31 BDEPTH: 33 31 Towing dir: 112ø Wire out: Sorted: 14 Kg Total catch: SPECIES Scomber japonicus Loligo vulgaris	PE: PT No:1) Purpose of Area code GearCond. Validity 130 m Spec CATCH/HC weight nu PE: BT No:2) Purpose of Area code GearCond. Validity 150 m Spec 14.40 CATCH/HC weight nu 26.13 1.12 0.62	pp POS: code: code: code: code: code: pp pos: code: cod	ROJECTION 1 2 kn*10 % OF CH/HOU kn*10 CH/HOU % OF	r STAT Long J J IR: TOT. J IR: TOT. 93.76 4.02 2.22	C C C C	:1275 2410 1619 SAMP :1276 2424 1544 7.87 SAMP 2333
DATE:25/11/00 GEAR TYI start stop duration TIME :10:25:04 10:39:24 14 (mini LOG :4929.83 4930.77 0.93 FDEPTH: 20 34 BDEPTH: 67 69 Towing dir: 300ø Wire out: Sorted: Kg Total catch: SPECIES Total DATE:26/11/00 GEAR TYI start stop duration TIME :10:03:44 10:35:12 31 (min) LOG :5145.39 5147.12 1.71 FDEPTH: 33 31 BDEPTH: 33 31 Towing dir: 112ø Wire out: Sorted: 14 Kg Total catch: SPECIES Scomber japonicus LOIgo vulgaris Octopus vulgaris	PE: PT No:1) Purpose of Area code GearCond Validity 130 m Spec CATCH/H(weight nu PE: BT No:2) Purpose of Area code GearCond Validity 150 m Spec 14.40 CATCH/H(weight nu 26.13 1.12 0.62	PIP POS: code: code: code: code: code: PIP: POS: code: code: code: code: code: code: code: code: line prode: code: line code: code: line code: line code: line code: line code: line code: line code: line code: line code: cod	ROJEC: ITION 1 2 kn*11 CH/HOU % OF kn*10 kn*10 kn*10 % OF	r STAT Long) rr STAT TOT.) JR: TOT. 93.76 4.02 2.22	C C C C C	:1275 2410 1619 SAMP :1276 2424 1544 7.87 SAMP 2333
DATE:25/11/00 GEAR TYI start stop duration TIME :10:25:04 10:39:24 14 (min LOG :4929.83 4930.77 0.93 FDEPTH: 20 34 BDEPTH: 67 69 Towing dir: 300ø Wire out: Sorted: Kg Total catch: SPECIES Total DATE:26/11/00 GEAR TYI start stop duration TIME :10:03:44 10:35:12 31 (min) LOG :5145.39 5147.12 1.71 FDEPTH: 33 31 BDEPTH: 33 31 Towing dir: 112ø Wire out: Sorted: 14 Kg Total catch: SPECIES Scomber japonicus Loligo vulgaris Octopus vulgaris Total	PE: PT No:1) Purpose of Area code GearCond Validity 130 m Spee CATCH/HK weight m PE: BT No:2) Purpose of Area code GearCond Validity 150 m Spee 14.40 CATCH/HK weight m 26.13 1.12 0.62 27.87	PP POS: code	ROJEC: IIION kn*11 CH/HOI ROJEC: TIION kn*11 CH/HOI % OF	r STAT Long J JR: TOT. J J STAT Long J J R: TOT. 93.76 4.02 2.22	C C C C	:1275 2410 1619 SAMP :1276 2424 1544 7.87 SAMP 2333
DATE:25/11/00 GEAR TYI start stop duration TIME :10:25:04 10:39:24 14 (min LOG :4929.83 4930.77 0.93 FDEPTH: 20 34 BDEPTH: 67 69 Towing dir: 300ø Wire out: Sorted: Kg Total catch: SPECIES Total DATE:26/11/00 GEAR TYI start stop duration TIME :10:03:44 10:35:12 31 (min) LOG :5145.39 5147.12 1.71 FDEPTH: 33 31 DDEPTH: 33 31 Towing dir: 112@ Wire out: Sorted: 14 Kg Total catch: SPECIES Scomber japonicus Loligo vulgaris Octopus vulgaris Total	2E: PT No:1) Purpose of Area code GearCond. Validity 130 m Spec CATCH/HC weight nu PE: BT No:2) Purpose of Area code GearCond. Validity 150 m Spec 14.40 CATCH/HC weight nu 26.13 1.12 0.62 27.87	PI POS: code	COJECCUTION 1 2 kn*11 CH/HOU % OF COJECCUTION kn*11 CH/HOU % OF	r STAT Lat Long J JR: TOT. TOT. J JR: Long J JR: TOT. 93.76 4.02 2.22 100.00	C C C C C C C	:1275 2410 1619 SAMP :1276 2424 1544 7.87 SAMP 2333
DATE:25/11/00 GEAR TYI start stop duration TIME :10:25:04 10:39:24 14 (min LGG :4929.83 4930.77 0.93 FDEPTH: 20 34 BDEPTH: 67 69 Towing dir: 300e Wire out: Sorted: Kg Total catch: SPECIES Total DATE:26/11/00 GEAR TYI Start stop duration TIME :10:03:44 10:35:12 31 (min) LGG :5145.39 5147.12 1.71 FDEPTH: 33 31 DEPTH: 33 31 Towing dir: 112e Wire out: Sorted: 14 Kg Total catch: SPECIES Scomber japonicus Loligo vulgaris Octopus vulgaris Total	PE: PT No:1) Purpose of Area code GearCond. Validity 130 m Spee CATCH/HC weight nu PE: BT No:2) Purpose of Area code GearCond. Validity 150 m Spee 14.40 CATCH/HC weight nu 26.13 1.12 0.62 27.87 PE: PT No:6	PI POS: code: code: code: code: CATC DUR PPS: code: co	COJEC: COJEC:	r STAT Lat Long J J J R: TOT. TOT. TOT. J J J J J R: TOT. J J J J R: TOT. TOT. TOT. J J J J R: TOT. TOT. J J J J J J J J J J J J J J J J J J J	C C C C C C C C C C C C C C C C C C C	:1275 2410 1619 SAMP :1276 2424 1544 7.87 SAMP 2333
DATE:25/11/00 GEAR TYI start stop duration TIME :10:25:04 10:39:24 14 (min LGG :4929.83 4930.77 0.93 FDEPTH: 20 34 BDEPTH: 67 69 Towing dir: 3000 Wire out: Sorted: Kg Total catch: SPECIES Total DATE:26/11/00 GEAR TYI start stop duration TIME :10:03:44 10:35:12 31 (min) LGG :5145.39 5147.12 1.71 FDEPTH: 33 31 DEPTH: 33 31 Towing dir: 1120 Wire out: Sorted: 14 Kg Total catch: SPECIES Scomber japonicus Loligo vulgaris Octopus vulgaris Total DATE:26/11/00 GEAR TYI start stop duration TIME :20:17:00 20:47:16 30 (min)	PE: PT No:1) Purpose of Area code GearCond. Validity 130 m Spee CATCH/HC weight nu PE: BT No:2) Purpose of Area code GearCond. Validity 150 m Spee 14.40 CATCH/HC weight nu 26.13 1.12 0.62 27.87 PE: PT No:6) Purpose of	PI POS: code: code: code: code: CATC DUR PDS: code: co	COJECC COJECC	r STAT Lat Long J J J R: TOT. TOT. TOT. J J J J J J J J J J J J J J J J J J J	C C C C C C C C C C C C C C C C C C C	:1275 2410 1619 SAMP :1276 2424 1544 7.87 SAMP 2333 :1277 2438 1528
DATE:25/11/00 GEAR TYI start stop duration TIME :10:25:04 10:39:24 14 (min LOG :4929.83 4930.77 0.93 FDEPTH: 20 34 BDEPTH: 67 69 Towing dir: 300ø Wire out: Sorted: Kg Total catch: SPECIES Total DATE:26/11/00 GEAR TYI start stop duration TIME :10:03:44 10:35:12 31 (min) LOG :5145.39 5147.12 1.71 FDEPTH: 33 31 Towing dir: 112ø Wire out: Sorted: 14 Kg Total catch: SPECIES Scomber japonicus Loligo vulgaris Octopus vulgaris Total DATE:26/11/00 GEAR TYI start stop duration TIME :20:17:00 20:47:16 30 (min) LOG :5238.80 5240.35 1.56 FPEEPTH: 5 5 5	PE: PT No:1) Purpose of Area codd GearCond. Validity I30 m Spee CATCH/HC weight nu PE: BT No:2) Purpose of Area codd GearCond. Validity I50 m Spee 14.40 CATCH/HC weight nu 26.13 1.12 0.62 27.87 PE: PT No:6) Purpose of Area codd GearCond	PI POS: code: code: code: code: code: POS: code:	COJECC CO CO CO CO CO CO CO CO CO	r STAT Lat Long J J J R: TOT. TOT. TOT. J J J J R: Long J J J R: TOT. TOT. TOT. TOT. TOT. TOT. TOT. TOT	C C C C C C C C C C C C C C C C C C C	:1275 2410 1619 SAMP :1276 2424 1544 7.87 SAMP 2333 :1277 2438 1528
DATE:25/11/00 GEAR TYI start stop duration TIME :10:25:04 10:39:24 14 (min LOG :4929.83 4930.77 0.93 FDEPTH: 20 34 BDEPTH: 67 69 Towing dir: 300ø Wire out: Sorted: Kg Total catch: SPECIES Total DATE:26/11/00 GEAR TYI start stop duration TIME :10:03:44 10:35:12 31 (min) LOG :5145.39 5147.12 1.71 FDEPTH: 33 31 Towing dir: 112ø Wire out: Sorted: 14 Kg Total catch: SPECIES Scomber japonicus Loligo vulgaris Octopus vulgaris Total DATE:26/11/00 GEAR TYI start stop duration TIME :20:17:00 20:47:16 30 (min) LOG :5238.80 5240.35 1.56 FDEPTH: 32 33	PE: PT No:1) Purpose of Area codd GearCond. Validity I30 m Spee CATCH/HC weight nu PE: BT No:2) Purpose of Area codd GearCond. Validity I50 m Spee 14.40 CATCH/HC weight nu 26.13 1.12 0.62 27.87 PE: PT No:6) Purpose of Area codd GearCond Validity FF No:6	PI POS: code: code: code: code: code: POS: code:	COJECC ITION 1 2 kn*11 CH/HOU * OF COJECC TTION kn*11 * OF COJECC TTION kn*11 * OF COJECC TTION * OF COJECC * OF * OF COJECC * OF COJECC * OF * OF COJECC * OF * OF COJECC * OF * OF * OF COJECC * OF * OF	r STAT Lat Long J J J R: TOT. TOT. TSTAT Long J J R: TOT. 2.22 LONG C 100.00	C C ION W 2' C C	:1275 2410 1619 SAMP :1276 2424 1544 7.87 SAMP 2333 :1277 2438 1528
DATE:25/11/00 GEAR TYI start stop duration TIME :10:25:04 10:39:24 14 (min LOG :4929.83 4930.77 0.93 FDEPTH: 20 34 BDEPTH: 67 69 Towing dir: 300ø Wire out: Sorted: Kg Total catch: SPECIES Total DATE:26/11/00 GEAR TYI start stop duration TIME :10:03:44 10:35:12 31 (min) LOG :5145.39 5147.12 1.71 FDEPTH: 33 31 DDEPTH: 33 31 Towing dir: 112ø Wire out: Sorted: 14 Kg Total catch: SPECIES Scomber japonicus Loligo vulgaris Octopus vulgaris Total DATE:26/11/00 GEAR TYI start stop duration TIME :20:17:00 20:47:16 30 (min) LOG :5238.80 5240.35 1.56 FDEPTH: 32 33 Towing dir: 298ø Wire out:	PE: PT No:1) Purpose of Area code GearCond. Validity 130 m Spee CATCH/HK weight m PE: BT No:2) Purpose of Area code GearCond. CATCH/HK weight m 26.1 14.40 CATCH/HK weight m 26.1 11.2 0.62 27.87 PE: PT No:6) Purpose of Area code GearCond. Validity 150 m Spee	PI POS: code: code: code: code: code: POS: code:	COJECC TITION 1 2 kn*11(CH/HOU * OF COJECC TITION kn*11(* OF COJECC TITION kn*11(* OF COJECC * OF * OF COJECC * OF COJECC * OF COJECC * OF COJECC * OF COJECC * OF COJECC * OF COJECC * OF * OF COJECC * OF * OF COJECC * OF * OF * OF COJECC * OF * OF	r STAT Lat Long J J J R: TOT. TOT. TOT. J J J J J J J J J J J J J J J J J J J	C C C C C C C C C C	:1275 2410 1619 SAMP :1276 2424 1544 7.87 SAMP 2333 :1277 2438 1528
DATE:25/11/00 GEAR TYI start stop duration TIME :10:25:04 10:39:24 14 (min LOG :4929.83 4930.77 0.93 FDEPTH: 20 34 BDEPTH: 67 69 Towing dir: 300ø Wire out: Sorted: Kg Total catch: SPECIES Total DATE:26/11/00 GEAR TYI start stop duration TIME :10:03:44 10:35:12 31 (min] LOG :5145.39 5147.12 1.71 FDEPTH: 33 31 DDEPTH: 33 31 Towing dir: 112ø Wire out: Sorted: 14 Kg Total catch: SPECIES Scomber japonicus Loligo vulgaris Total DATE:26/11/00 GEAR TYI start stop duration TIME :20:17:00 20:47:16 30 (min] LOG :5238.80 5240.35 1.56 FDEPTH: 32 33 Towing dir: 298ø Wire out: Sorted: 25 Kg Total catch:	PE: PT No:1) Purpose of Area code GearCond. Validity 130 m Spee CATCH/HK weight nu PE: BT No:2) Purpose of Area code GearCond. Validity 150 m Spee 14.40 CATCH/HK weight nu 26.13 1.12 0.62 27.87 PE: PT No:6) Purpose of Area code GearCond. Validity 150 m Spee 27.87	PI POS: code: code: code: code: code: POS: code:	ROJEC: TITION 1 2 kn*11 CH/HOU & OF COJEC: TITION kn*11 CH/HOU 1 2 kn*11 CH/HOU	r STAT Lat Long J. J. R: TOT. TOT. J. J. J. J. J. J. J. J. J. J. J. J. J.	C C C C C C C S S S S S S S S S S S S S	:1275 2410 1619 SAMP :1276 2424 1544 7.87 2333 :1277 2438 1528
DATE:25/11/00 GEAR TYI start stop duration TIME :10:25:04 10:39:24 14 (min LOG :4929.83 4930.77 0.93 FDEPTH: 20 34 BDEPTH: 67 69 Towing dir: 300ø Wire out: Sorted: Kg Total catch: SPECIES Total DATE:26/11/00 GEAR TYI start stop duration TIME :10:03:44 10:35:12 31 (min] LOG :5145.39 5147.12 1.71 FDEPTH: 33 31 TOWING dir: 112ø Wire out: Sorted: 14 Kg Total catch: SPECIES Scomber japonicus Loligo vulgaris Octopus vulgaris Total DATE:26/11/00 GEAR TYI start stop duration TIME :20:17:00 20:47:16 30 (min] LOG :5238.80 5240.35 1.56 FDEPTH: 32 33 Towing dir: 298ø Wire out: Sorted: 25 Kg Total catch:	PE: PT No:1) Purpose of Area code GearCond. Validity 130 m Spee CATCH/HC weight nu PE: BT No:2) Purpose of Area code GearCond. Validity 150 m Spee 14.40 CATCH/HC weight nu 26.13 1.12 0.62 27.87 PE: PT No:6) Purpose of Area code GearCond. Validity 150 m Spee 27.87	PI POS: code	COJECC ITION 1 2 kn*11(CH/HOU * OF COJECC TTION kn*11(* OF COJECC TTION kn*11(* OF COJECC * OF * OF COJECC * OF * OF * OF COJECC * OF * OF	r STAT Lat Long J. J. R: TOT. TSTAT Long J. J. J. J. R: TOT. J. J. J. J. J. J. J. J. J. J	C C C C C C C C C C C C C C C C C C C	:1275 2410 1619 SAMP :1276 2424 1544 7.87 SAMP 2333 :1277 2438 1528
DATE:25/11/00 GEAR TYI start stop duration TIME :10:25:04 10:39:24 14 (min LOG :4929.83 4930.77 0.93 FDEPTH: 20 34 BDEPTH: 67 69 Towing dir: 300ø Wire out: Sorted: Kg Total catch: SPECIES Total DATE:26/11/00 GEAR TYI start stop duration TIME :10:03:44 10:35:12 31 (min] LOG :5145.39 5147.12 1.71 FDEPTH: 33 31 BDEPTH: 33 31 Towing dir: 112ø Wire out: Sorted: 14 Kg Total catch: SPECIES Scomber japonicus Loligo vulgaris Total DATE:26/11/00 GEAR TYI start stop duration TIME :20:17:00 20:47:16 30 (min] LOG :5238.80 5240.35 1.56 FDEPTH: 32 33 Towing dir: 298ø Wire out: Sorted: 25 Kg Total catch: SPECIES Sardina pilchardus	PE: PT No:1) Purpose of Area code GearCond. Validity 130 m Spee CATCH/HK weight m PE: BT No:2) Purpose of Area code GearCond. Validity 150 m Spee 14.40 CATCH/HK weight m 26.13 1.12 0.62 27.87 PE: PT No:6) Purpose of Area code GearCond. Validity 150 m Spee 2500.00 CATCH/HC Weight m	PI POS: code: code: code: code: code: POS: pos: pos: code: c	ROJEC: TION 1 2 kn*1(CH/HOU & OF COJEC: TION kn*1(CH/HOU 2 kn*1(CH/HOU 2 kn*1(CH/HOU 2 kn*1(CH/HOU 2 kn*1(2 kn*1) 2 kn*1(kn*1) kn*1(kn*1) (kn*1) kn*1(kn*1) kn*1(kn*1)(kn*	r STAT Lat Long J J R: TOT.	C C C C C C C C C C C C C C C C C C C	:1275 2410 1619 SAMP :1276 2424 1544 7.87 2333 :1277 2438 1528 00 SAMP 2334

5000.00

100.00

Total

PROJECT STATION:1278 GEAR TYPE: PT No:6 POSITION:Lat N 2441 aration Long W 1502 DATE:28/11/00
 DATE:28/11/00
 GEAR TYPE: PT No:6
 POSIT

 TIME
 start
 stop
 duration
 Purpose code: 1

 LOG
 :5600.48
 5602.29
 1.81
 Area code : 3
 3

 FDEPTH:
 5
 GearCond.code:
 BDEPTH: 27
 27
 Validity code:
 Towing dir: 96ø Wire out: 150 m Speed: 30 kn*10 Total catch: 5044.84 CATCH/HOUR: 10089.68 Sorted: 43 Kg SPECIES CATCH/HOUR % OF TOT. C SAMP weight numbers Diplodus bellottii 5364.00 56890 53.16 Sardina pilchardus 4588.00 176104 45.47 0.47 2335 Pagellus acarne Pomadasys incisus 47.04 470 42.34 236 0.42 2336 Scomber japonicus 28 0.18 Sarda sarda Aspitrigla obscura Trichiurus lepturus 8.80 7.46 3.92 10 0.09 72 0.07 2 0.04 Zeus faber Octopus vulgaris 3.88 0.04 2 Spondyliosoma cantharus 2.34 234 0.02 Loligo vulgaris 1.60 8 0.02 10089.68 Total 100 01 PROJECT STATION:1279 GEAR TYPE: PT No:7 POSITION:Lat N 2425 ration Long W 1519 DATE:28/11/00
 DATE:28/11/00
 GEAR TYPE: PT No:7
 POSIT

 start
 stop
 duration
 Purpose code:
 1

 TIME
 18:04:54
 18:35:06
 30 (min)
 Purpose code:
 1

 LOG
 :5668.96
 5670.79
 1.80
 Area code:
 :3
 3

 FDEFTH:
 5
 GearCond.code:
 EDEPTH:
 21
 19
 Validity code:
 Towing dir: 90ø Wire out: 180 m Speed: 30 kn*10 Sorted: 43 Kg Total catch: 2993.70 CATCH/HOUR: 5987.40 SPECIES CATCH/HOUR % OF TOT. C SAMP weight numbers 5952.54 81998 Sardina pilchardus 99.42 2337 Sepia officinalis hierredda 27.90 140 138 0.47 Diplodus bellottii 6 96 0 12 100.01 5987.40 Total
 DATE:29/11/00
 GEAR TYPE: BT No:2
 POSI

 start
 stop
 duration

 TIME :10:19:16 10:49:59 31 (min)
 Purpose code:

 LOG :5830.93 5832.52 1.53
 Area code :

 FDEPTH: 30
 30
 GearCond.code:

 BDEPTH: 30 30
 Validity code:

 Towing dist
 152
 PROJECT STATION:1280 GEAR TYPE: BT No:2 POSITION:Lat N 2339 mation Long W 1613 : 3 Towing dir: 150ø Wire out: 140 m Speed: 30 kn*10 Sorted: 62 Kg Total catch: 62.72 CATCH/HOUR: 121.39 CATCH/HOUR % OF TOT. C SAMP SPECIES weight numbers 98.25 917 917 58 Sardina pilchardus 80.94 2338 Pagellus bellottii 10.61 8.74 Spondyliosoma cantharus 4.39 114 3.62 Scomber japonicus 3.87 23 3.19 Decapterus rhonchus 2.48 12 2.04 Loligo vulgaris 1 47 43 1 21 Trachurus trecae 0.21 0.25 2 2 Aspitrigla obscura 0.08 0.07 Total 121.40 100.02 PROJECT STATION:1281
 DATE:30/11/00
 GEAR TYPE: PT No.7
 PROJECT

 start
 stop
 duration
 L

 TIME :00:39:03 01:11:51 33 (min)
 Purpose code: 1
 L

 LOG :5564.09 5965.62 1.50
 Area code
 :2

 FDEPTH:
 1
 GearCond.code:

 BDEPTH:
 24
 25
 Validity code:

 Towing dir:
 ø Wire out: 140 m Speed: 35 kn*10
 0
 GEAR TYPE: PT No:7 POSITION:Lat N 2420 ration Long W 1532 Sorted: 37 Kg Total catch: 182.80 CATCH/HOUR: 332.36 CATCH/HOUR % OF TOT. C SAMP SPECTES weight numbers 319.82 4025 96.23 2339 Sardina pilchardus 3.34 Diplodus bellottii 11.09 118 Loligo vulgaris 1.45 4 Total 332.36 100 01 PROJECT STATION:1282 GEAR TYPE: BT No:2 POSITION:Lat N 2519 ration Long W 1458 DATE:30/11/00
 Start
 stop
 GEAR TYPE:
 BT No:2
 POS:

 TIME
 :13:12:45
 13:57:05
 44 (min)
 Purpose code:

 LOG
 :6079.97
 6082.14
 2.43
 Area code

 FDEFTH:
 58
 63
 GearCond.code:

 BDEPTH:
 58
 63
 Validity code:
 Source and the second s Sorted: 43 Kg Total catch: 288.00 CATCH/HOUR: 392.73 CATCH/HOUR % OF TOT. C SAMP SPECIES weight numbers 169.72 210 43.22 Pagellus bellottii Loligo vulgaris Trachurus trachurus 29.08 11.67 114 22 220 45.82 258 2340 Pagellus acarne 34.75 191 8.85 67 19 Boops boops 7.25 1.85 Diplodus vulgaris 6.87 1.75 Spondyliosoma cantharus Mullus surmuletus 4.77 19 1.21 3.63 38 0.92 3.03 Octopus vulgaris Aspitrigla obscura 2.67 29 0.68 392.73 100.00 Total

D3000 1/10/00 0030 00	DD. DD M	DOGT	TTONIC	NT 0550
DATE: 1/12/00 GEAR TY start stop duration	DE: BL NO:5	POSI	Long	N 2559 W 1445
TIME :10:47:48 11:18:11 30 (min LOG :6282.40 6283.81 1.43	 Purpose of Area code 	code:	1	
FDEPTH: 100 103	GearCond	.code:		
Towing dir: 298ø Wire out:	350 m Spee	ed: 30	kn*10	
Sorted: 12 Kg Total catch:	12 17	Сатс	H/HOUR:	24 34
SPECIES	CATCH/HO weight nu	JUR Imbers	* OF TOT. C	SAMP
Pagellus bellottii	7.70	40	31.64	
Loligo vulgaris Pagellus acarne	4.90	20	22.43 20.13	
Sardina pilchardus	3.46	32	14.22	2341
Pagellus erythrinus Scomber japonicus	0.80	6 2	7.48	
Aspitrigla obscura	0.20	2	0.82	
Total	24.34		100.01	
DATE: 5/12/00 GEAR TY	PE: BT No:2	PR	OJECT STATI	ON:1284
start stop duration	ID: DI NO:D	1 001	Long	W 1347
TIME :07:04:53 07:15:06 10 (min LOG :6700 70 6701 23 0 54	.) Purpose of Area code	code:	3	
FDEPTH: 34 36	GearCond	.code:	9	
BDEPTH: 34 36 Towing dir: 236g Wire out:	Validity	code:	1 kn*10	
lowing dir. 2360 wire out.	120 W 2Dee	=a. 30	KII" 10	
Sorted: 31 Kg Total catch:	372.01	CATC	H/HOUR: 2	232.06
SPECIES	CATCH/HO	JUR	% OF TOT. C	SAMP
Pomadasys incisus	weight nu 829,20	umbers 8460	37.15	
Diplodus vulgaris	538.20	2580	24.11	
Diplodus bellottii	328.80	9540	14.73	
Plectorhinchus mediterraneus	61.80	120	9.11 2.77	
Frachurus trachurus	58.62	330	2.63	2343
Jasyatis centroura Loligo vulgaris	54.96 52.80	12 120	2.46 2.37	
Jmbrina canariensis	45.00	120	2.02	
Sardina pilchardus Scorpaena scrofa	19.86 16 80	300 360	0.89	2342
Serranus cabrilla	10.20	180	0.46	
Pagellus acarne	4.80	60	0.22	
Mullus surmuletus	2.22	30	0.21	
Citharus linguatula	0.24	12	0.01	
sngraulis encrasicolus	0.24	20	0.01	
Sepia orbignyana	0.12	36 6	0.01	
Sepia orbignyana SOABOOl	0.12	36 6 6	0.01 0.01 0.01	
Sepia orbignyana SOABOOl Total	0.12 0.12	36 6 6	0.01 0.01 0.01 100.02	
Sepia orbignyana SOABOOl — Total	0.12 0.12 2232.06	36 6 6	0.01 0.01 0.01	
Sepia orbignyana SOABOOI — — Total	0.12 0.12 2232.06	36 6 6	0.01 0.01 0.01 100.02	
Sepia orbignyana SOABOOI — Total —	0.12 0.12 2232.06	36 6 6	0.01 0.01 0.01 100.02	ON:1285
Sepia orbignyana SOABOOI — Total DATE: 5/12/00 GEAR TY start stop duration	0.12 0.12 2232.06 PE: PT No:1	36 6 6 PR POSI	0.01 0.01 0.01 100.02	ON:1285 N 2702 W 1330
Sepia orbignyana SOABOOI — Total — DATE: 5/12/00 GEAR TY start stop duration TIME :14:38:19 15:18:18 40 (min	0.12 0.12 2232.06 PE: PT No:1	36 6 6 PR POSI code:	0.01 0.01 0.01 100.02	CON:1285 N 2702 W 1330
Sepia orbignyana SOABOO1 — Total — DATE: 5/12/00 GEAR TY start stop duration TIME :14:38:19 15:18:18 40 (min LOG :6769.99 6772.93 2.93 EDEPTH: 15	0.12 0.12 2232.06 PE: PT No:1	36 6 6 PR POSI code: code:	COJECT STATI TION:Lat Long 1 3	ON:1285 N 2702 W 1330
Sepia orbignyana SOABOO1 — Total DATE: 5/12/00 GEAR TY start stop duration TIME :14:38:19 15:18:18 40 (min LOG :6769.99 6772.93 2.93 FDEPTH: 15 18 BDEPTH: 38 31	0.12 0.12 2232.06 PE: PT No:1) Purpose of Area code GearCond Validity	36 6 6 PR POSI code: e : .code: code:	0.01 0.01 100.02 COJECT STATI TION:Lat Long 1 3	CON:1285 N 2702 W 1330
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Sepia orbignyana SOABOOI	0.12 0.12 0.12 2232.06 PE: PT No:1) Purpose of Area code GearCond Validity 80 m Spec 29.32	36 6 6 PR POSI Code: code: code: code: code: code: code: code: code:	0.01 0.01 100.02 COJECT STATI TION:Lat Long 1 3 kn*10 CH/HOUR:	CON:1285 N 2702 W 1330 43.98
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Sepia orbignyana SOABOOL — — Total — — DATE: 5/12/00 GEAR TY start stop duration TIME :14:38:19 15:18:18 40 (min LOG :6769.99 6772.93 2.93 FDEPTH: 15 18 BDEPTH: 38 31 Towing dir: 180ø Wire out: Sorted: 29 Kg Total catch: SPECIES Sardina pilchardus Scomber japonicus Loligo vulgaris Zampogramma glaycos Pomadasys incisus Diplodus bellottii Sepia orbignyana	0.12 0.12 0.12 2232.06 PE: PT No:1) Purpose of Area code GearCond, Validity 80 m Spec 29.32 CATCH/HK weight nu 34.50 3.89 2.70 1.98 0.45 0.30 0.17	36 6 6 7 POSI code: ed: 35 CATC DUR 20 20 20 20 20 20 20 20 20 20 20 20 20	0.01 0.01 100.02 COJECT STATI TION:Lat Long 1 3 kn*10 CH/HOUR: % OF TOT. C 78.44 8.84 6.14 4.50 1.02 0.68 0.39	ON:1285 N 2702 W 1330 43.98 : SAMP 2344 2345
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<pre>bipla orbignyana boABOOI >otal DATE: 5/12/00 GEAR TY start stop duration TIME :14:38:19 15:18:18 40 (min LOG :6769.99 6772.93 2.93 FDEPTH: 15 18 BDEPTH: 38 31 Towing dir: 180ø Wire out: Sorted: 29 Kg Total catch: Sorted: 29 Kg Total catch: Sorted: 29 Kg Total catch: Sorted: 29 Kg Total catch: BECIES Sardina pilchardus comber japonicus oligo vulgaris tampogramma glaycos tomadasys incisus iplodus bellottii epia orbignyana otal DATE: 5/12/00 GEAR TY start stop duration TIME :19:59:46 20:29:10 29 (min LOG :6816.54 6817.87 1.32 FDEPTH: 2 2</pre>	0.12 0.12 0.12 2232.06 PE: PT No:1) Purpose of Area code GearCond Validity 80 m Spee 29.32 CATCH/HK weight m 34.50 3.89 2.70 1.98 0.45 0.30 0.17 43.99 PE: PT No:4	36 6 6 6 7 PDSI 20de: 2 .code: 2 .code: 2 .code: 38 6 8 8 2 2 DUR 8 8 5 5 8 8 2 2 PR FDSI 1 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2	0.01 0.01 0.01 100.02 COJECT STATI TION:Lat Long 1 3 kn*10 H/HOUR: % OF TOT. C 78.44 8.84 6.14 4.50 1.02 0.68 0.39 100.01 COJECT STATI TION:Lat Long 1.02 1.03 1.02 1.03 1.02 1.03 1.02 1.03 1.02 1.03 1.02 1.03 1.02 1.03 1.02 1.03 1.02 1.03 1.02 1.03 1.02 1.03 1.	ON:1285 N 2702 W 1330 43.98 : SAMP 2344 2345 : ON:1286 N 2713 W 1329
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<pre>Jepia orDignyana SOABOO1</pre>	0.12 0.12 0.12 2232.06 PE: PT No:1) Purpose of Area code GearCond. Validity 80 m Spee 29.32 CATCH/H(weight mi 34.50 0.389 2.70 1.98 0.45 0.30 0.17 43.99 PE: PT No:4) Purpose of Area code GearCond. Validity 150 m Spee 946.73	36 6 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	0.01 0.01 0.01 100.02 COJECT STATI TION:Lat Long 1 3 kn*10 CH/HOUR: % OF TOT. C 78.44 8.84 6.14 4.50 1.02 0.68 0.39 100.01 COJECT STATI TION:Lat Long 1 3 kn*10 CH/HOUR: 1 CH/HOUR: 2 C	ON:1285 N 2702 W 1330 43.98 : SAMP 2344 2345 ON:1286 N 2713 W 1329 958.75
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Sepia orbignyana SOABOOI — — Total — — DATE: 5/12/00 GEAR TY start stop duration TIME :14:38:19 15:18:18 40 (min LOG :6769.99 6772.93 2.93 FDEPTH: 15 18 BDEPTH: 38 31 Towing dir: 1800 Wire out: Sorted: 29 Kg Total catch: Species Sardina pilchardus Scomber japonicus Loligo vulgaris Samogramma glaycos Pomadasys incisus Diplodus bellottii Sepia orbignyana — Total — — DATE: 5/12/00 GEAR TY start stop duration TIME :19:59:46 20:29:10 29 (min LOG :6816.54 6817.87 1.32 FDEPTH: 2 2 BDEPTH: 40 36 Towing dir: 170ø Wire out: Sorted: 37 Kg Total catch:	0.12 0.12 0.12 2232.06 PE: PT No:1) Purpose of Area codd GearCond. Validity 80 m Spec 29.32 CATCH/H(weight m 34.50 3.89 2.70 1.98 0.45 0.30 0.17 43.99 PE: PT No:4) Purpose of Area codd GearCond. Validity 150 m Spec 946.73	36 6 6 6 6 7 POSI code: 2 code: 2 code: 2 code: 470 38 6 8 2 2 DUR mmbers 2 8 2 POSI 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.01 0.01 0.01 100.02 COJECT STATI TION:Lat Long 1 3 kn*10 CH/HOUR: % OF TOT. CC 78.44 8.84 6.14 4.50 1.02 0.68 0.39 100.01 COJECT STATI TION:Lat Long 1 3 kn*10 CH/HOUR: 1 % OF TOT. CC	CON:1285 N 2702 W 1330 43.98 SAMP 2344 2345 CON:1286 N 2713 W 1329 958.75 SAMP
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Sepia orbignyana SoABOO1 — — Total — — DATE: 5/12/00 GEAR TY start stop duration TIME :14:38:19 15:18:18 40 (min LOG :6769.99 6772.93 2.93 FDEPTH: 15 18 BDEPTH: 38 31 Towing dir: 180ø Wire out: Sorted: 29 Kg Total catch: SPECIES Sardina pilchardus Scomber japonicus Loligo vulgaris Sampogramma glaycos Pomadasys incisus Diplodus bellottii Sepia orbignyana — Total — — DATE: 5/12/00 GEAR TY start stop duration TIME :19:59:46 20:29:10 29 (min LOG :6816.54 6817.87 1.32 FDEPTH: 2 2 BDEPTH: 40 36 Towing dir: 170ø Wire out: Sorted: 37 Kg Total catch: SPECIES Sardina pilchardus Frachurus trachurus	0.12 0.12 0.12 2232.06 PE: PT No:1) Purpose of Area code GearCond. Validity 80 m Spee 29.32 CATCH/HC weight nu 34.50 3.89 2.70 1.98 0.45 0.30 0.17 43.99 PE: PT No:4) Purpose of Area code GearCond. Validity 150 m Spee 946.73 CATCH/HC weight nu 1149.31 558.62	36 6 6 6 7 POSI code: a : code: code: 470 38 6 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0.01 0.01 0.01 100.02 COJECT STATI TION:Lat Long 1 3 kn*10 CH/HOUR: * OF TOT. C 78.44 8.84 6.14 4.50 1.02 0.68 0.39 100.01 COJECT STATI TION:Lat Long 1 3 kn*10 CH/HOUR: 1 * OF TOT. C 58.68 28.52	ON:1285 N 2702 W 1330 43.98 : SAMP 2344 2345 : SAMP 2345 N 2713 W 1329 958.75 : SAMP 2346 2347
Sepia orbignyana SOABOOI GEAR TY start stop duration TIME :14:38:19 15:18:18 40 (min LOG :6769.99 6772.93 2.93 FDEPTH: 15 18 BDEPTH: 38 31 Towing dir: 180ø Wire out: Sorted: 29 Kg Total catch: SPECIES Sardina pilchardus Scomber japonicus Loligo vulgaris Campogramma glaycos Pomadasys incisus Diplodus bellottii Sepia orbignyana Fotal — Total — Total DATE: 5/12/00 GEAR TY start stop duration TIME :19:59:46 20:29:10 29 (min LOG :6816.54 6817.87 1.32 FDEPTH: 2 2 BDEPTH: 40 36 Towing dir: 170ø Wire out: Sorted: 37 Kg Total catch: SPECIES Sardina pilchardus Frachurus trachurus Diplodus bellottii	0.12 0.12 0.12 2232.06 PE: PT No:1) Purpose of Area code GearCond Validity 80 m Spee 29.32 CATCH/H(weight mu 34.50 3.89 2.70 1.98 0.45 0.30 0.17 43.99 PE: PT No:4) Purpose of Area code GearCond Validity 150 m Spee 946.73 CATCH/H(weight mu 1149.31 558.62 124.66 57.93	36 6 6 6 6 7 PDSI 20de: 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0.01 0.01 0.01 100.02 COJECT STATI TION:Lat Long 1 3 kn*10 H/HOUR: * OF TOT. C 78.44 8.84 6.14 4.50 1.02 0.68 0.39 100.01 COJECT STATI TION:Lat Long 1 3 kn*10 COJECT STATI TION:Lat Long 1 3 kn*10 COJECT STATI 1 3 kn*10 COJECT STATI 1 3 Kn*10 COJECT STATI 1 2 COJECT STATI 1 3 COJECT STATI 1 2 COJECT STATI 1 2 COJECT STATI 1 2 COJECT STATI 1 2 COJECT STATI 1 2 COJECT STATI 2 COJECT STATI	ON:1285 N 2702 W 1330 43.98 SAMP 2344 2345 CON:1286 N 2713 W 1329 958.75 SAMP 2346 2347
Sepia orbignyana SOABOOI — — Total — — DATE: 5/12/00 GEAR TY start stop duration TIME :14:38:19 15:18:18 40 (min LOG :6769.99 6772.93 2.93 FDEPTH: 15 18 BDEPTH: 38 31 Towing dir: 1800 Wire out: Sorted: 29 Kg Total catch: SpecIES Sardina pilchardus Scomber japonicus Loligo vulgaris Campogramma glaycos Pomadasys incisus Diplodus bellottii Sepia orbignyana — Total — — DATE: 5/12/00 GEAR TY start stop duration TIME :19:59:46 20:29:10 29 (min LOG :6816.54 6817.87 1.32 FDEPTH: 40 36 Towing dir: 1700 Wire out: Sorted: 37 Kg Total catch: SPECIES Sardina pilchardus Frachurus trachurus Diplodus bellottii Species	0.12 0.12 0.12 2232.06 PE: PT No:1) Purpose of Area code GearCond Validity 80 m Spee 29.32 CATCH/HK weight mu 34.50 3.89 2.70 1.98 0.45 0.30 0.17 43.99 PE: PT No:4) Purpose of Area code GearCond Validity 150 m Spee 946.73 CATCH/HK weight mu 1149.31 558.62 124.66 57.93 55.34	36 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7	0.01 0.01 0.01 100.02 COJECT STATI TION:Lat Long 1 3 kn*10 CH/HOUR: * OF TOT. C 78.44 8.84 6.14 4.50 1.02 1.02 1.02 1.039 100.01 COJECT STATI TION:Lat Long 1.02 1.03 1.02	ON:1285 N 2702 W 1330 43.98 SAMP 2344 2345 ON:1286 N 2713 W 1329 .958.75 SAMP 2346 2347
Sepia orbignyana SOABOOI — — Total — — DATE: 5/12/00 GEAR TY start stop duration TIME :14:38:19 15:18:18 40 (min LOG :6769.99 6772.93 2.93 FDEPTH: 15 18 BDEPTH: 38 31 Towing dir: 1800 Wire out: Sorted: 29 Kg Total catch: SpecIES Sardina pilchardus Scomber japonicus Loligo vulgaris Campogramma glaycos Pomadasys incisus Diplodus bellottii Sepia orbignyana — Total — — Total — — DATE: 5/12/00 GEAR TY start stop duration TIME :19:59:46 20:29:10 29 (min LOG :6816.54 6817.87 1.32 FDEPTH: 2 2 EDEPTH: 40 36 Towing dir: 170ø Wire out: Sorted: 37 Kg Total catch: SPECIES Sardina pilchardus Frachurus trachurus Diplodus bellottii Pomadasys incisus Scomber japonicus Scomber japonicus	0.12 0.12 0.12 2232.06 PE: PT No:1) Purpose of GearCond. Validity 80 m Spec 29.32 CATCH/HK weight nu 34.50 0.389 2.70 1.98 0.45 0.30 0.17 43.99 PE: PT No:4) Purpose of Area code GearCond. Validity 150 m Spec 946.73 CATCH/HK weight nu 1149.31 558.62 124.66 57.93 55.34 3.62	36 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7	0.01 0.01 0.01 100.02 COJECT STATI TION:Lat Long 1 3 kn*10 CH/HOUR: COJECT STATI COJECT STATI TION:Lat Long 1 COJECT STATI TION:Lat Long 1 3 kn*10 COJECT STATI COJECT STATI C	ON:1285 N 2702 W 1330 43.98 SAMP 2344 2345 ON:1286 N 2713 W 1329 958.75 SAMP 2346 2347
Sepia orbignyana SOABOUI — — Total — — DATE: 5/12/00 GEAR TY start stop duration TIME :14:38:19 15:18:18 40 (min LOG :6769.99 6772.93 2.93 FDEPTH: 15 18 BDEPTH: 38 31 Towing dir: 1800 Wire out: Sorted: 29 Kg Total catch: Species Sardina pilchardus Scomber japonicus icoligo vulgaris Sampogramma glaycos Pomadasys incisus Diplodus bellottii Sepia orbignyana — Total — — DATE: 5/12/00 GEAR TY start stop duration TIME :19:59:46 20:29:10 29 (min LOG :6816.54 6817.87 1.32 FDEPTH: 2 2 BDEPTH: 40 36 Towing dir: 170ø Wire out: Sorted: 37 Kg Total catch: SPECIES Sardina pilchardus Frachurus trachurus Diplodus bellottii Pomadasys incisus Scomber japonicus Scomber japonicus Agellus acarne Milotheutis subulata	0.12 0.12 0.12 2232.06 PE: PT No:1) Purpose of Area codd GearCond. Validity 80 m Spec 29.32 CATCH/H(weight m 34.50 3.89 2.70 1.98 0.45 0.30 0.17 43.99 PE: PT No:4) Purpose of Area codd GearCond. Validity 150 m Spec 946.73 CATCH/H(Weight m 1149.31 558.62 124.66 57.93 55.34 3.62 3.62 2.07	36 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7	0.01 0.01 0.01 100.02 COJECT STATI TION:Lat Long 1 3 kn*10 CH/HOUR: % OF TOT. CC 78.44 8.84 6.14 4.50 1.02 0.68 0.39 100.01 COJECT STATI TION:Lat Long 1 3 kn*10 CH/HOUR: 1 % OF TOT. CC 58.68 28.52 6.36 2.96 2.83 0.18 0.18 0.11	ON:1285 N 2702 W 1330 43.98 SAMP 2344 2345 CON:1286 N 2713 W 1329 958.75 SAMP 2346 2347
SoABOUL — — — — — — — — — — — — — — — — — — —	0.12 0.12 0.12 2232.06 PE: PT No:1) Purpose of Area code GearCond. Validity 80 m Spee 29.32 CATCH/HK weight mu 34.50 3.89 2.70 1.98 0.45 0.30 0.45 0.30 0.45 0.30 0.45 0.30 0.45 0.30 0.45 0.30 0.45 0.30 0.45 0.30 0.45 0.30 0.45 0.30 0.45 0.45 0.30 0.45 0.30 0.45 0.30 0.45 0.30 0.45 0.30 0.45 0.30 0.45 0.30 0.45 0.30 0.45 0.30 0.45 0.30 0.45 0.30 0.45 0.30 0.45 0.30 0.45 0.30 0.45 0.45 0.30 0.45 0.30 0.45 0.45 0.30 0.45 0.45 0.30 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.4	36 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7	0.01 0.01 0.01 0.01 100.02 COJECT STATI TION:Lat Long 1 3 kn*10 CH/HOUR: % OF TOT. CC 78.44 8.84 6.14 4.50 1.02 0.68 0.39 100.01 COJECT STATI TION:Lat Long 1 3 kn*10 CH/HOUR: 1 % OF TOT. C 58.68 28.52 6.36 6.36 0.38 0.18 0.18 0.18 0.18 0.18 0.18 0.18 0.18 0.10 0.08 0.08 0.08 0.08 0.08 0.08 0.01 0.08 0.01 0.08 0.01 0.08 0.11 0.01 0.	ON:1285 N 2702 W 1330 43.98 SAMP 2344 2345 2345 00N:1286 N 2713 W 1329 958.75 SAMP 2346 2347
Sepia orbignyana SoABO01	0.12 0.12 0.12 2232.06 PE: PT No:1) Purpose of Area code GearCond Validity 80 m Spee 29.32 CATCH/HG weight nu 34.50 3.89 2.70 1.98 0.45 0.30 0.17 43.99 PE: PT No:4) Purpose of Area code GearCond Validity 150 m Spee 946.73 CATCH/HG weight nu 1149.31 558.62 124.66 57.93 55.34 3.62 3.62 2.07 1.59 1.03 0.95	36 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7	0.01 0.01 0.01 100.02 COJECT STATI TION:Lat Long 1 3 kn*10 CH/HOUR: % OF TOT. C 78.44 8.84 6.14 4.50 1.02 0.68 0.39 100.01 COJECT STATI TION:Lat Long 1 3 kn*10 CH/HOUR: 1 % OF TOT. C 58.68 28.52 6.36 2.96 2.83 0.18 0.18 0.18 0.18 0.18 0.19 1.02 1.0	ON:1285 N 2702 W 1330 43.98 : SAMP 2344 2345 2345 00N:1286 N 2713 W 1329 958.75 : SAMP 2346 2347
<pre>Sepia orDignyana SOABOO1 Total DATE: 5/12/00 GEAR TY start stop duration TIME :14:38:19 15:18:18 40 (min LOG :6769.99 6772.93 2.93 FDEPTH: 15 18 BDEPTH: 38 31 Towing dir: 1800 Wire out: Sorted: 29 Kg Total catch: SPECIES Sardina pilchardus comber japonicus oligo vulgaris Pomadasys incisus oligo vulgaris Pomadasys incisus oligo vulgaris TIME :19:59:46 20:29:10 29 (min LOG :6816.54 6817.87 1.32 FDEPTH: 40 36 Towing dir: 1700 Wire out: Sorted: 37 Kg Total catch: SPECIES Sardina pilchardus rachurus trachurus Niplodus bellottii omadasys incisus Sorted: 37 Kg Total catch: SPECIES Sardina pilchardus rachurus trachurus Niplodus bellottii omadasys incisus Scomber japonicus agellus acarne LlOtheutis subulata Bepa officinalis hierredda Argraulis encrasicolus Byondyliosoma cantharus</pre>	0.12 0.12 0.12 2232.06 PE: PT No:1) Purpose of Area code GearCond. Validity 80 m Spee 29.32 CATCH/HC weight nu 34.50 3.89 2.70 1.98 0.45 0.30 0.17 43.99 PE: PT No:4) Purpose of Area code GearCond. Validity 150 m Spee 946.73 CATCH/HC weight nu 1149.31 558.62 124.66 57.93 55.34 3.62 3.62 2.07 1.59 1.03 0.95	366 66 6 7 9051 20de: e : code: code: code: 20UR mbbers 2008: e : code:	0.01 0.01 0.01 100.02 COJECT STATI TION:Lat Long 1 3 kn*10 CH/HOUR: * OF TOT. C 78.44 8.84 6.14 4.50 0.39 100.01 COJECT STATI TION:Lat Long 1 3 kn*10 COJECT STATI TION:Lat Long 1 3 kn*10 COJECT STATI SOJECT STATI SOJECT STATI SOJECT STATI COJECT STATI 1 3 kn*10 COJECT STATI SOJECT STATI COJECT STATI Long 1 3 COJECT STATI COJECT STATI SOJECT STATI COJECT STATI SOJECT STATI COJECT STATI	ON:1285 N 2702 W 1330 43.98 : SAMP 2344 2345 : SAMP 958.75 : SAMP 2346 2347

	P	ROJECT STATION:1287
DATE: 5/12/00 GEAR TY	PE: PT No:6 POS	TTION:Lat. N 2721
start stop duration		Long W 1327
TIME :23:25:38 23:47:20 22 (min) Purpose code:	1
LOG :6843.41 6844.34 0.93	Area code :	2
FDEPTH: 2 10	GearCond.code:	
BDEPTH: 49 38	Validity code:	
Towing dir: 290g Wire out:	150 m Speed: 30	kn*10
Towing all boob wile out	150 m Speed St	101 10
Sorted: 38 Kg Total catch:	192 80 CAT	CH/HOUR: 525 82
boreca. bo ng fotar catom	192.00 011	515102
SPECIES	CATCH/HOUR	* OF TOT. C SAMP
	weight numbers	
Sardina nilchardug	511 36 31718	97 25 2348
Pomadasys incisus	10 36 109	1 97
Diplodus bellottii	1 50 41	0.29
Dagellug acarne	0.82 3	0.16
Alletheutig gubulete	0.02 3	0.10
Allotheutis subulata	0.82 232	0.10
Scomper japonicus	0.55 14	0.10
Sepia orbignyana	0.41 14	0.08

525.82

Total

Total

100.01

99.98

	PROJECT STATION:1288
DATE: 6/12/00 GEAR TY	PE: PT No:1 POSITION:Lat N 2731
start stop duration	Long W 1321
TIME :03:52:37 04:05:18 13 (min) Purpose code: 1
LOG :6877.34 6878.23 0.88	Area code : 2
FDEPTH: 20 20	GearCond.code:
BDEPTH: 37 32	Validity code:
Towing dir: 180ø Wire out:	80 m Speed: 35 kn*10
Sorted: 37 Kg Total catch:	111.37 CATCH/HOUR: 514.02
SPECIES	CATCH/HOUR % OF TOT. C SAMP
	weight numbers
Sardina pilchardus	497.08 14760 96.70 2349
Pomadasys incisus	8.03 83 1.56
Loligo vulgaris	4.48 5 0.87
Scomber japonicus	3.88 125 0.75 2350
Diplodus bellottii	0.28 14 0.05
Engraulis encrasicolus	0.28 28 0.05

514.03

									F	ROJEC	T STA	LION	:1289
DATE:	7/1:	2/00			GE.	AR TYI	PE: PT	No:6	POS	ITION	Lat	N	2804
	5	start	sto	p o	durat	ion					Long	W	1233
TIME	:23	:56:23	00:1	2:24	16	(min) Pur	pose	code:	1			
LOG	:70	53.06	7053	.85	0.79		Are	a cod	e :	1			
FDEPTH	н:	2		2			Gea	rCond	.code:				
BDEPTH	H:	39		39			Val	idity	code:				
	Tot	wing d:	ir: 2	40ø	Wire	out:	140 m	Spe	ed: 35	kn*1	0		
Sort	ted:	43 Kg	3	To	tal c	atch:	43	1.40	CAI	CH/HO	UR:	161	7.75

SPECIES	CATCH	% OF	TOT. C	SAMP	
	weight	numbers			
Sardina pilchardus	1575.00	74138		97.36	2351
Scomber japonicus	42.75	338		2.64	2352
Total	1617.75			100.00	

										PF	OTEC		TTON	:1290
DATE:	7/	12/00			GE/	AR TYI	PE: BT	No:2	2 P	os	ITION	Lat	N	2807
		start	stop	, c	durati	on						Long	W	1204
TIME	:1	5:16:5	7 15:40	5:57	30	(min) Pur	pose	code	:	1			
LOG	:7	208.01	7209	.53	1.51		Are	a coo	le	:	1			
FDEPTH	:1	25		26			Gea	rCond	1.cod	e:				
BDEPTH	:1	25		26			Val	idity	/ cod	e:				
	Т	'owing d	dir: !	50ø	Wire	out:	120 m	Spe	eed:	30	kn*10)		

Total catch: 426.30 CATCH/HOUR: 852.60

SPECIES	CATCH	I/HOUR	% OF TOT. C	SAMP
	weight	numbers		
Sardina pilchardus	770.00	35020	90.31	2353
Engraulis encrasicolus	41.00	2920	4.81	2354
Allotheutis subulata	16.20	3100	1.90	
Diplodus bellottii	6.40	80	0.75	
Mustelus mustelus	5.76	2	0.68	
Merluccius merluccius	5.60	840	0.66	
Sepia officinalis hierredda	5.00	10	0.59	
Diplodus puntazzo	2.44	4	0.29	
Trachurus, Juveniles	0.20	40	0.02	
Total	852.60		100.01	

Sorted: 42 Kg

DATE: 7/12/00 GEAR TY start stop duration TIME :18:50:22 19:19:19 29 (min LOG :7238.13 7239.44 1.29 FPDEPTH: 41 41 BDEPTH: 41 41 Towing dir: 180ø Wire out:	PE: BT No:2) Purpose co Area code GearCond.c Validity c 140 m Speed	PROJECT POSITION: de: 1 : 3 ode: ode: : 30 kn*10	STATION:1291 Lat N 2817 Long W 1153
Sorted: 70 Kg Total catch:	70.01	CATCH/HOU	R: 144.85
SPECIES Diplodus bellottii	CATCH/HOU weight num 40.97	R % OF ' bers 1051	TOT. C SAMP 28.28
Solea vulgaris	19.86	695	13.71
Solenocera membranacea	18.25 1	8977	12.60
Gobius sp	18.25 1	8977	12.60
Mullus surmuletus	14.07	674	9.71
Pagellus acarne	4.80	112	3.31
Engraulis encrasicolus	3.81	319	2.63 2356
Trachinus draco	3.52	157	2.43
Allotheutis subulata	3.14	604	2.17
Sardina pilchardus	3.06	116	2.11 2355
Trigla lyra	2.90	87	2.00
Torpedo marmorata Sepia officinalis hierredda Merluccius merluccius Octopus unlaris	2.57 2.54 1.94	10 6 29 2	1.77 1.75 1.34
Scomber japonicus	0.87	25	0.60
Pagellus bellottii	0.83	4	0.57
Scorpaena sp.	0.70	4	0.48
Cepola macrophthalma	0.58	21	0.40
Penaeus kerathurus	0.48	6	0.33
Parapenaeus longirostris	0.08	8	0.06
Total	144.85		99.98

												PF	SOJE	CT ST	TATI	ION :	1292
DATE:	8/	12/0	0			GEA	AR TY	PE:	PT 1	No:4	E	POSI	ITIO	N:La	t	Ν	2841
		sta	ırt	st	op	durat	ion							LOI	ng	W	1112
TIME	:1	0:38	:37	11:	09:44	31	(min) F	urpo	ose	code	:	1				
LOG	:7	362.	67	736	54.05	1.38		P	rea	cod	le	:	3				
FDEPTH	I :		5		5			G	ear	Cond	l.cod	le:					
BDEPTH	I:		41		48			V	alio	dity	cod	le:					
	T	owir	ıg d	ir:	330ø	Wire	out:	150	m	Spe	ed:	30	kn*2	10			
Sort	ed	: 6	5 K	g	To	tal ca	atch:		64	.99	C	ATC	CH/HO	OUR:		125	.79

SPECIES	CATCH. weight	/HOUR numbers	% OF	TOT. C	SAMP
Sardina pilchardus	87.10	2553		69.24	2358
Scomber japonicus	29.42	277		23.39	2359
Engraulis encrasicolus	8.86	670		7.04	2357
Liocarcinus sp	0.41	39		0.33	
Total	125.79			100.00	

	PROJECT STATION	1:1293
DATE: 9/12/00 GEAR TYP	PE: PT No:6 POSITION:Lat N	2856
start stop duration	Long W	1047
TIME :10:33:51 11:38:17 64 (min)) Purpose code: 1	
LOG :7563.09 7566.54 3.43	Area code : 1	
FDEPTH: 10 10	GearCond.code:	
BDEPTH: 47 59	Validity code:	
Towing dir: 347ø Wire out:	150 m Speed: 30 kn*10	
Sorted: 5 Kg Total catch:	5.52 CATCH/HOUR:	5.18
SPECIES	CATCH/HOUR % OF TOT. C	SAMP
	weight numbers	
Lepidopus caudatus	3.94 2 76.06	
Scomber japonicus	0.75 2 14.48	
Sarda sarda	0.49 1 9.46	

Total

5.18

100.00

	PROJECT STATION:1294
DATE: 9/12/00 GEAR	TYPE: BT No:2 POSITION:Lat N 2920
start stop duration	Long W 1051
TIME :16:29:22 16:52:38 23 (n	uin) Purpose code: 1
LOG :7610.34 7610.76 0.09	Area code : 1
FDEPTH: 124 123	GearCond.code: 9
BDEPTH: 124 123	Validity code: 1
Towing dir: 215ø Wire ou	t: 420 m Speed: 30 kn*10
Sorted: Kg Total cate	th: 8.26 CATCH/HOUR: 21.55
SPECIES	CATCH/HOUR % OF TOT. C SAMP
	weight numbers
Dentex macrophthalmus	11.95 97 55.45
Anthias anthias	9.52 368 44.18
Macrorhamphosus scolopax	0.08 3 0.37
mate 1	
TOTAL	21.55 100.00

		PROJE	CT STATION:129	5
DATE: 9/12/00	GEAR TYPE: PT	No:3 POSITIO	N:Lat N 291	.5
start stop du	ration		Long W 103	6
TIME :20:01:19 20:01:39	20 (min) Purp	pose code: 1		
LOG :7640.91 7642.27 1	.36 Area	a code : 3		
FDEPTH: 25 19	Gear	rCond.code: 9		
BDEPTH: 55 60	Val	idity code: 1		
Towing dir: 40ø W	ire out: 90 m	Speed: 30 kn*	10	
Sorted: 3 Kg Tota	l catch:	2.58 CATCH/H)UR: 7.74	
SPECIES	CA	ICH/HOUR % OI	F TOT. C SAM	IP
	weight	t numbers		
Engraulis encrasicolus	3.9	93 351	50.78 236	1
Diplodus vulgaris	1.8	BO 6	23.26	
Sardina pilchardus	1.0	65 45	21.32 236	0
Trisopterus luscus	0.3	36 3	4.65	

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Total

Total

7.74

100.01

99.99

		PRC	JECT STAT	ION:1296
DATE: 9/12/00 GEAR TY	PE: BT No:2	POSIT	'ION:Lat	N 2902
start stop duration			Long	W 1033
TIME :23:40:22 23:45:15 5 (min) Purpose d	code: 1		
LOG :7663.16 7663.41 0.23	Area code	e : 1		
FDEPTH: 26 26	GearCond	.code:		
BDEPTH: 26 26	Validity	code:		
Towing dir: 240ø Wire out:	100 m Spee	ed: 30 k	:n*10	
-	-			
Sorted: 38 Kg Total catch:	189.23	CATCH	I/HOUR:	2270.76
-				
SPECIES	CATCH/HO)UR %	OF TOT.	C SAMP
	weight nu	umbers		
Sardina pilchardus	2220.00	28424	97.76	5 2362
Engraulis encrasicolus	16.20	1320	0.71	2363
Pomadasys incisus	13.20	180	0.58	3
Trachurus trachurus	9.60	1260	0.42	2
Pagellus acarne	6.00	180	0.26	5
Diplodus bellottii	2.40	120	0.11	L
Sardinella aurita	2.16	180	0.10)
Allotheutis subulata	1.20	660	0.05	5

2270.76

								P	ROJECI	STAT	ION	1297
DATE:10	/12/00			GEA	R TYP	PE: PT	No:7	POS	ITION:	Lat	N	2913
	star	t s	top	durati	on					Long	W	1024
TIME :	02:49:	47 03	:00:00	10	(min)) Purj	pose	code:	1			
LOG :	7688.4	6 76	88.99	0.53		Area	a cod	e :	1			
FDEPTH:	1	9	19			Gea	rCond	.code:				
BDEPTH:	3	4	34			Val	idity	code:				
	Towing	dir:	220ø	Wire	out:	100 m	Spe	ed: 34	kn*10)		
Sorte	d: 39	Kg	To	tal ca	tch:	300	2.70	CAT	CH/HOU	JR: 1	8016	i.20

SPECIES	CATCH	/HOUR	% OF	TOT. C	SAMP
	weight	numbers			
Sardina pilchardus	17920.80	772632		99.47	2364
Scomber japonicus	59.40	456		0.33	
Lepidopus caudatus	16.20	6		0.09	
Trachurus trachurus	14.40	960		0.08	
Trisopterus luscus	5.40	540		0.03	
Total	18016.20			100.00	

	P	ROJECT STATION:1298
DATE:10/12/00 GEAR TY	PE: BT No:2 POS	TTION:Lat. N 2957
start stop duration		Long W 952
TIME :16:45:15 17:18:28 33 (mir) Burnose code:	1
100 :7013 00 7015 64 1 75	ly ruipose coue.	1
LUG ·/013.00 /015.04 1./5	Area code	1
FDEPIH: 96 109	Gearcona.code.	
BDEPTH: 96 109	Validity code:	1 +10
Towing dir: 2900 Wire out:	340 m Speed: 30	kn*10
Sorted: 27 Kg Total catch:	27 15 CAT	CH/HOUR: 49 36
borrea: 17 kg fotar catch	27110 0111	
SPECIES	CATCH/HOUR	% OF TOT. C SAMP
	weight numbers	
Lepidopus caudatus	33.35 16	67.56
Allotheutis subulata	6.18 1756	12.52
Merluccius merluccius	4.71 22	9.54
Loligo vulgaris	2.55 4	5.17
Pagellus acarne	1.69 7	3.42
TRGTR03	0.78 4	1.58
Trisopterus minutus	0.09 2	0.18
Engraulis encrasicolus	0.02 2	0.04
_		
Total	49.37	100.01

		PROJECT STATION:1299
DATE:11/12/00 GEAR TY start stop duration	PE: BT No:2 PC	SITION:Lat N 3023 Long W 941
TIME :14:15:14 14:30:17 15 (min) Purpose code:	1
LOG :7932.36 7933.14 0.77 FDEPTH: 28 30	Area code GearCond.code	: 1 :
BDEPTH: 28 30	Validity code	
Towing dir: 232ø Wire out:	120 m Speed: 3	0 kn*10
Sorted: 43 Kg Total catch:	530.04 CA	ATCH/HOUR: 2120.16
SPECIES	CATCH/HOUR	% OF TOT. C SAMP
Provenlia energiacius	weight number	S 01 E0 0366
Sardina pilchardus	147.84 744	6.97 2365
Pagellus acarne	114.24 264	5.39
Trachurus trachurus	21.12 105	i6 1.00 2307
Loligo vulgaris	18.92 20	0.89
Diplodus puntazzo	5.96	4 0.28
Lithognathus mormyrus	4.92	8 0.23
Diplodus sargus *	2.28	4 0.11
Mullus surmuletus Allotheutis subulata	1.44 4	18 0.07 14 0.02
Total	2120.16	100.00
		PROJECT STATION:1300
DATE:12/12/00 GEAR TY	PE: PT No:3 PC	SITION:Lat N 3101
TIME :09:13:35 09:55:49 42 (min) Purpose code:	1
LOG :8097.91 8100.48 2.56	Area code GearCond code	: 3
BDEPTH: 70 85	Validity code	:
Towing dir: 235ø Wire out:	150 m Speed: 3	10 kn*10
Sorted: 44 Kg Total catch:	534.17 C#	TCH/HOUR: 763.10
SPECTES	CATCH/HOUR	& OF TOT. C SAMP
	weight number	s
Engraulis encrasicolus Sardina pilchardus	653.83 5375 95.66 275	69 85.68 2369 74 12.54 2368
Lepidopus caudatus	11.34	6 1.49
Scomber japonicus	2.27 2	26 0.30 2370
Total	763.10	100.01
		PROTECT STATION:1301
DATE:12/12/00 GEAR TY	PE: PT No:1 PC	SITION:Lat N 3113
start stop duration TIME :15:54:13 16:28:38 34 (min) Purpose code:	Long W 952
111111 (10/01/10/10/10/00/00/01/(min	, rarpobe code.	-
LOG :8158.56 8160.70 2.12	Area code	: 3
LOG :8158.56 8160.70 2.12 FDEPTH: 45 60 BDEPTH: 68 78	Area code GearCond.code Validity code	: 3
LOG :8158.56 8160.70 2.12 FDEPTH: 45 60 BDEPTH: 68 78 Towing dir: 270ø Wire out:	Area code GearCond.code Validity code 250 m Speed: 3	: 3 :: :: 5 kn*10
LOG :8158.56 8160.70 2.12 FDEPTH: 45 BDEPTH: 68 78 Towing dir: 270ø Wire out: Sorted: 41 Kg Total catch:	Area code GearCond.code Validity code 250 m Speed: 3 1047.50 CZ	: 3 :: :55 kn*10 MTCH/HOUR: 1848.53
LOG :8158.56 8160.70 2.12 FDEPTH: 45 8160.70 2.12 FDEPTH: 68 78 Towing dir: 270ø Wire out: Sorted: 41 Kg Total catch:	Area code GearCond.code Validity code 250 m Speed: 3 1047.50 CZ	: 3 :: :5 :5 kn*10 MTCH/HOUR: 1848.53
LOG :8158.56 8160.70 2.12 FDEPTH: 45 60 BDEPTH: 68 78 Towing dir: 270ø Wire out: Sorted: 41 Kg Total catch: SPECIES	Area code GearCond.code Validity code 250 m Speed: 3 1047.50 CZ CATCH/HOUR	: 3 :: :5 kn*10 XTCH/HOUR: 1848.53 % OF TOT. C SAMP
LOG :9158.56 9160.70 2.12 FDEPTH: 45 60 BDEPTH: 68 78 Towing dir: 270ø Wire out: Sorted: 41 Kg Total catch: SPECIES	Area code GearCond.code Validity code 250 m Speed: 3 1047.50 C2 CATCH/HOUR weight number	: 3 :: 55 kn*10 XTCH/HOUR: 1848.53 % OF TOT. C SAMP 59 62 56 2271
LDG ::155.56 410.70 2.12 FDEPTH: 45 60 BDEPTH: 68 78 Towing dir: 270ø Wire out: Sorted: 41 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus	Area code GearCond.code 250 m Speed: 1 1047.50 CP CATCH/HOUR weight number 1174.85 5175 613.24 6223	: 3 :: :5 kn*10 XTCH/HOUR: 1848.53 * OF TOT. C SAMP '8 9 63.56 2371 9 33.17 2372
LOG : 195.56 1960.70 2.12 FDEPTH: 45 60 BDEPTH: 68 78 Towing dir: 270ø Wire out: Sorted: 41 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Lepidopus caudatus Trachurus trachurus	Area code GearCond.code Validity code 250 m Speed: 1 1047.50 C CATCH/HOUR weight number 1174.85 5177 613.24 622: 39.53 22 20.04	: 3 :: :: :: :: :5 kn*10 * OF TOT. C SAMP : : : : : : : : : : : : :
LDG ::155.55 410.70 2.12 FDEPTH: 45 60 BDEPTH: 68 78 Towing dir: 270ø Wire out: Sorted: 41 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Lepidopus caudatus Trachurus trachurus	Area code GearCond.code Validity code 250 m Speed: 3 1047.50 C2 CATCH/HOUR weight number 1174.85 5177 613.24 6223 39.53 28 20.01 3	: 3 :: :: :: :: :: :: :: :: :: :
LDG ::155.56 410.70 2.12 FDEPTH: 45 60 BDEPTH: 68 78 Towing dir: 270ø Wire out: Sorted: 41 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Lepidopus caudatus Trachurus trachurus Total	Area code GearCond.code Validity code 250 m Speed: 3 1047.50 CZ CATCH/HOUR weight numben 1174.85 5177 613.24 6223 39.53 248 20.91 3	: 3 :: :: :: :: :: :: :: :: :: :
LDG ::155.56 410.70 2.12 FDEPTH: 45 60 BDEPTH: 68 78 Towing dir: 270ø Wire out: Sorted: 41 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Lepidopus caudatus Trachurus trachurus Total	Area code GearCond.code Validity code 250 m Speed: 3 1047.50 CZ CATCH/HOUR weight numben 1174.85 5177 613.24 6223 39.53 248 20.91 3 1848.53	: 3 :: :: :: :: :: :: :: :: :: :
LOG : 195.56 1960.70 2.12 FDEPTH: 45 60 BDEPTH: 68 78 Towing dir: 270ø Wire out: Sorted: 41 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Lepidopus caudatus Trachurus trachurus Total	Area code GearCond.code Validity code 250 m Speed: 3 1047.50 C/ CATCH/HOUR weight numben 1174.85 5177 613.24 6223 39.53 24 20.91 3 1848.53	: 3 :: :: :: :: :: :: :: :: :: :
DATE:13/12/00	Area code GearCond.code Validity code 250 m Speed: 3 1047.50 CZ CATCH/HOUR weight number 1174.85 5177 613.24 6223 39.53 26 20.91 3 1848.53 PE: PT No:3 PC	: 3 :: :: :: :: :: :: :: :: :: :
DATE:13/12/00 GEAR TY: Total DATE:13/12/00 GEAR TY: Total Start Stop duration TIME :07:17:59 07:57:03 39 (min	Area code GearCond.code Validity code 250 m Speed: : 1047.50 CZ CATCH/HOUR weight number 1174.85 517 613.24 622: 39.53 26 20.91 : 1848.53 PE: PT No:3 PC) Purpose code:	: 3 :: :: :: :: :: :: :: :: :: :
DATE:13/12/00 GEAR TY: Total DATE:13/12/00 GEAR TY: Total DATE:13/12/00 GEAR TY: Start stop duration TIME:07:17:59 07:57:03 39 (min LOG: 8286.64 8289.40 2.72	Area code GearCond.code Validity code 250 m Speed: : 1047.50 CZ CATCH/HOUR weight number 1174.85 5175 613.24 6223 39.53 22 20.91 : 1848.53 PE: PT No:3 PC) Purpose code: Area code	: 3 :: :: :: :: :: : : : : : :
DATE:13/12/00 GEAR TY: Total DATE:13/12/00 GEAR TY: Total DATE:13/12/00 GEAR TY: Start stop duration TIME:07:17:59 07:57:03 39 (min LOG: 8286.64 8289.40 2.72 FDEPTH: 105 143	Area code GearCond.code Validity code 250 m Speed: 3 1047.50 C/ CATCH/HOUR weight number 1174.85 5175 613.24 6222 39.53 22 20.91 3 1848.53 PE: PT No:3 PC) Purpose code: Area code GearCond.code Validity code	: 3 :: :: :: :: :: :: :: :: :: :
DATE:13/12/00 GEAR TY: Sorted: 41 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Lepidopus caudatus Trachurus trachurus Total DATE:13/12/00 GEAR TY: start stop duration TIME :07:17:59 07:57:03 39 (min LOG :8286.64 8285.40 2.72 FDEPTH: 105 143 Towing dir: 289ø Wire out:	Area code GearCond.code Validity code 250 m Speed: 3 1047.50 CZ CATCH/HOUR weight number 1174.85 5175 613.24 6222 39.53 22 20.91 3 1848.53 PE: PT No:3 PC) Purpose code: Area code GearCond.code Validity code 140 m Speed: 3	: 3 :: :: :: :: :: :: :: :: :: :
DG ::155.55 410.70 2.12 FDEPTH: 45 60 BDEPTH: 68 78 Towing dir: 270ø Wire out: Sorted: 41 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Lepidopus caudatus Trachurus trachurus Total DATE:13/12/00 GEAR TY: start stop duration TIME :07:17:59 07:57:03 39 (min LOG :8286.64 8289.40 2.72 FDEPTH: 105 143 Towing dir: 289ø Wire out: Sorted: 1 Kg Total catch:	Area code GearCond.code Validity code 250 m Speed: 3 1047.50 C/ CATCH/HOUR weight number 1174.85 5175 613.024 6222 39.53 22 20.91 3 1848.53 PE: PT No:3 PC) Purpose code: Area code GearCond.code Validity code 140 m Speed: 3 1.20 C/	: 3 :: :: :: :: :5 kn*10 * OF TOT. C SAMP :9 :0 :0 :0 :0 :0 :: :: :: :: ::
DG ::B15.56 H00.70 2.12 FDEPTH: 45 60 BDEPTH: 68 78 Towing dir: 270ø Wire out: Sorted: 41 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Lepidopus caudatus Trachurus trachurus Total DATE:13/12/00 GEAR TY: start stop duration TIME :07:17:59 07:57:03 39 (min LOG :8286.64 8289.40 2.72 FDEPTH: 25 30 BDEPTH: 105 143 Towing dir: 289ø Wire out: Sorted: 1 Kg Total catch:	Area code GearCond.code Validity code 250 m Speed: 1 1047.50 Cr CATCH/HOUR weight number 1174.85 5177 613.24 6221 39.53 22 20.91 3 1848.53 PE: PT No:3 PC) Purpose code: Area code GearCond.code Validity code 140 m Speed: 1 1.20 Cr	: 3 :: :: :: :: :: :5 kn*10 XTCH/HOUR: 1848.53 * OF TOT. C SAMP : : : : : : : : : : : : :
DG ::B15.56 B10.70 2.12 FDEPTH: 45 60 BDEPTH: 68 78 Towing dir: 270ø Wire out: Sorted: 41 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Lepidopus caudatus Trachurus trachurus Total DATE:13/12/00 GEAR TY. start stop duration TIME :07:17:59 07:57:03 39 (min LOG ::8286.64 8289.40 2.72 FDEPTH: 25 30 BDEPTH: 105 143 Towing dir: 289ø Wire out: Sorted: 1 Kg Total catch: SPECIES	Area code GearCond.code Validity code 250 m Speed: 1 1047.50 C CATCH/HOUR weight number 1174.85 517 613.24 622 39.53 22 20.91 3 1848.53 PE: PT No:3 PC) Purpose code GearCond.code Validity code 140 m Speed: 1 1.20 C/ CATCH/HOUR	: 3 :: :: :: :: :: :: :: :: :: :
DG : 518.56 56 510.70 2.12 FDEPTH: 45 60 BDEPTH: 68 78 Towing dir: 270ø Wire out: Sorted: 41 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Lepidopus caudatus Trachurus trachurus Total DATE:13/12/00 GEAR TY. start stop duration TIME:07:17:59 07:57:03 39 (min LOG : 8286.64 8289.40 2.72 FDEPTH: 25 30 BDEPTH: 105 143 Towing dir: 289ø Wire out: Sorted: 1 Kg Total catch: SPECIES Nola molo	Area code GearCond.code Validity code 250 m Speed: 1 1047.50 C CATCH/HOUR weight number 1174.85 5177 613.24 622: 39.53 22 20.91 1 1848.53 PE: PT No:3 PC) Purpose code Area code GearCond.code Validity code 140 m Speed: 1 1.20 C/ CATCH/HOUR weight number	: 3 :: :: :: :: :: :: :: :: :: :
DG : S185.56 B10.70 2.12 FDEPTH: 45 60 BDEPTH: 68 78 Towing dir: 270ø Wire out: Sorted: 41 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Lepidopus caudatus Trachurus trachurus Total DATE:13/12/00 GEAR TY: start stop duration TIME :07:17:59 07:57:03 39 (min LOG :8286.64 829.40 2.72 FDEPTH: 25 30 BDEPTH: 105 143 Towing dir: 289ø Wire out: Sorted: 1 Kg Total catch: SPECIES Mola mola	Area code GearCond.code Validity code 250 m Speed: 1 1047.50 C CATCH/HOUR weight number 1174.85 5177 613.24 622: 39.53 28 20.91 2 1848.53 PE: PT No:3 PC) Purpose code: Area code GearCond.code Validity code 140 m Speed: 2 1.20 C CATCH/HOUR weight number 1.85	: 3 :: :: :: :: :: :: :: :: :: :
DG : S185.56 B10.70 2.12 FDEPTH: 45 60 BDEPTH: 68 78 Towing dir: 270ø Wire out: Sorted: 41 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Lepidopus caudatus Trachurus trachurus Total DATE:13/12/00 GEAR TY: start stop duration TIME:07:17:59 07:57:03 39 (min LOG : 828.64 829.40 2.72 FDEPTH: 25 30 BDEPTH: 105 143 Towing dir: 289ø Wire out: Sorted: 1 Kg Total catch: SPECIES Mola mola Total	Area code GearCond.code Validity code 250 m Speed: 1 1047.50 CZ CATCH/HOUR weight number 1174.85 5177 613.24 622: 39.53 28 20.91 2 1848.53 PE: PT No:3 PC) Purpose code: Area code GearCond.code Validity code 140 m Speed: 3 1.20 CZ CATCH/HOUR weight number 1.85 1.85	: 3 :: :: :: :: :: :: :: :: :: :
DOG : 1955.56 1960.70 2.12 FDEPTH: 45 60 BDEPTH: 68 78 Towing dir: 270ø Wire out: Sorted: 41 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Lepidopus caudatus Trachurus trachurus Total DATE:13/12/00 GEAR TY: Start stop duration TIME :07:17:59 07:57:03 39 (min LOG : 8286.64 8289.40 2.72 FDEPTH: 25 30 BDEPTH: 105 143 Towing dir: 289ø Wire out: Sorted: 1 Kg Total catch: SPECIES Mola mola Total	Area code GearCond.code Validity code 250 m Speed: 3 1047.50 CZ CATCH/HOUR weight number 1174.85 5177 613.24 6223 30.53 28 20.01 3 1848.53 PE: PT No:3 PC) Purpose code: Area code GearCond.code Validity code 140 m Speed: 3 1.20 CZ CATCH/HOUR weight number 1.85 1.85	: 3 :: :: :: :: :: :: :: :: :: :
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DATE:13/12/00 GEAR TY SPECIES DATE:13/12/00 GEAR TY Sorted: 1 Kg Total catch: DATE:13/12/00 GEAR TY Sorted: 1 Kg Total catch: DATE:13/12/00 GEAR TY Start stop duration TIME :07:17:59 07:57:03 39 (min LOG :8286.64 8289.40 2.72 FDEPTH: 25 30 BDEPTH: 105 143 Towing dir: 289ø Wire out: Sorted: 1 Kg Total catch: SPECIES Mola mola Total	Area code GearCond.code Validity code 250 m Speed: 1 1047.50 CZ CATCH/HOUR weight number 1174.85 5177 613.24 622: 39.53 28 20.91 2 1848.53 PE: PT No:3 PC) Purpose code: Area code GearCond.code Validity code 140 m Speed: 3 1.20 CZ CATCH/HOUR weight number 1.85 1.85 PE: PT No:3 PC	: 3 :: :: :: :: :: :: :: :: :: :
DATE:13/12/00 GEAR TY: SPECIES DATE:13/12/00 GEAR TY: Sorted: 1 Kg Total catch: DATE:13/12/00 GEAR TY: Sorted: 1 Kg Total catch: DATE:13/12/00 GEAR TY: Start stop duration TIME:07:17:59 07:57:03 39 (min LOG :2286.64 2289.40 2.72 FDEPTH: 25 30 BDEPTH: 105 143 Towing dir: 289ø Wire out: Sorted: 1 Kg Total catch: SPECIES Mola mola Total	Area code GearCond.code Validity code 250 m Speed: 3 1047.50 CZ CATCH/HOUR weight number 1174.85 5177 613.24 6223 39.53 24 20.91 2 1848.53 PE: PT No:3 PC) Purpose code: Area code GearCond.code Validity code 140 m Speed: 3 1.20 CZ CATCH/HOUR weight number 1.85 1.85 PE: PT No:3 PC) Purpose code:	: 3 :: :: :: :: :: :: :: :: :: :
DG :8185.56 910.70 2.12 FDEPTH: 45 60 BDEPTH: 68 78 Towing dir: 270ø Wire out: Sorted: 41 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Lepidopus caudatus Trachurus trachurus Total DATE:13/12/00 GEAR TY: start stop duration TIME :07:17:59 07:57:03 39 (min LOG :8286.64 8289.40 2.72 FDEPTH: 25 30 BDEPTH: 105 143 Towing dir: 289ø Wire out: Sorted: 1 Kg Total catch: SPECIES Mola mola Total DATE:13/12/00 GEAR TY: start stop duration TIME :09:27:53 09:47:11 19 (min LOG :8301.59 8302.72 1.13 FDEPTH: 2.5	Area code GearCond.code Validity code 250 m Speed: 3 1047.50 CZ CATCH/HOUR weight numben 1174.85 5177 613.24 6223 39.53 242 20.91 3 1848.53 PE: PT No:3 PC) Purpose code: Area code GearCond.code Validity code 140 m Speed: 3 1.20 CZ CATCH/HOUR weight numben 1.85 1.85 PE: PT No:3 PC) Purpose code: Area code CATCH/HOUR Weight numben 1.85 1.85	: 3 :: :: :: :: :: :: :: :: :: :
DG :8185.56 910.70 2.12 FDEPTH: 45 60 BDEPTH: 68 78 Towing dir: 270ø Wire out: Sorted: 41 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Lepidopus caudatus Trachurus trachurus Total DATE:13/12/00 GEAR TY: start stop duration TIME :07:17:59 07:57:03 39 (min LOG :8286.64 8289.40 2.72 FDEPTH: 25 30 BDEPTH: 105 143 Towing dir: 289ø Wire out: Sorted: 1 Kg Total catch: SPECIES Mola mola Total DATE:13/12/00 GEAR TY: start stop duration TIME :09:27:53 09:47:11 19 (min LOG :8301.59 8302.72 1.13 FDEPTH: 30 40 BDEPTH: 58 64	Area code GearCond.code Validity code 250 m Speed: 3 1047.50 CZ CATCH/HOUR weight number 1174.85 5177 613.24 6223 39.53 24 20.91 3 1848.53 PE: PT No:3 PC) Purpose code: Area code GearCond.code Validity code 1.85 1.85 PE: PT No:3 PC) Purpose code: Area code GearCond.code Validity code Area code GearCond.code Validity code	: 3 :: :: :: :: :: :: :: :: :: :
DG :818.56 910.70 2.12 FDEPTH: 45 60 BDEPTH: 68 78 Towing dir: 270ø Wire out: Sorted: 41 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Lepidopus caudatus Trachurus trachurus Total DATE:13/12/00 GEAR TY: Sorted: 1 Kg Total catch: SPECIES Mola mola Total DATE:13/12/00 GEAR TY: start stop duration Total DATE:13/12/00 GEAR TY: start stop duration TIME:09:27:53 09:47:11 19 (min LOG :8301.59 8302.72 1.13 FDEPTH: 30 40 BDEPTH: 58 64 Towing dir: 288ø Wire out:	Area code GearCond.code Validity code 250 m Speed: 3 1047.50 CZ CATCH/HOUR weight number 1174.85 5177 613.24 6223 39.53 24 20.91 3 1848.53 PE: PT No:3 PC) Purpose code: Area code GearCond.code Validity code 140 m Speed: 3 1.20 CZ CATCH/HOUR weight number 1.85 1.85 PE: PT No:3 PC) Purpose code: Area code GearCond.code Validity code 10 m Speed: 3	: 3 :: :: :: :: :: :: :: :: :: :
DG ::B15.55 810.70 2.12 FDEPTH: 45 60 BDEPTH: 68 78 Towing dir: 270ø Wire out: Sorted: 41 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Lepidopus caudatus Trachurus trachurus Total DATE:13/12/00 GEAR TY. start stop duration TIME :07:17:59 07:57:03 39 (min LOG :8286.64 8289.40 2.72 FDEPTH: 105 143 Towing dir: 289ø Wire out: Sorted: 1 Kg Total catch: SPECIES Mola mola Total DATE:13/12/00 GEAR TY. start stop duration TIME :09:27:53 09:47:11 19 (min LOG :8301.59 8302.72 1.13 FDEPTH: 30 40 BDEPTH: 58 64 Towing dir: 288ø Wire out: Sorted: 44 Kg Total catch:	Area code GearCond.code Validity code 250 m Speed: 3 1047.50 CZ CATCH/HOUR weight number 1174.85 5177 613.24 6223 39.53 22 20.91 3 1848.53 PE: PT No:3 PC) Purpose code: Area code GearCond.code Validity code 140 m Speed: 3 1.20 CZ CATCH/HOUR weight number 1.85 1.85 PE: PT No:3 PC) Purpose code: Area code GearCond.code Validity code 10 m Speed: 3 1.85	: 3 :: :: :: :: :: :: :: :: :: :
DG ::B15.55 Bibl./0 2.12 FDEPTH: 45 60 BDEPTH: 68 78 Towing dir: 270ø Wire out: Sorted: 41 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Lepidopus caudatus Trachurus trachurus Total DATE:13/12/00 GEAR TY. start stop duration TIME :07:17:59 07:57:03 39 (min LOG ::8286.64 8289.40 2.72 FDEPTH: 105 143 Towing dir: 239ø Wire out: Sorted: 1 Kg Total catch: SPECIES Mola mola Total DATE:13/12/00 GEAR TY. start stop duration TIME :09:27:53 09:47:11 19 (min LOG ::8301.59 8302.72 1.13 FDEPTH: 30 40 BDEPTH: 58 64 Towing dir: 288ø Wire out: Sorted: 44 Kg Total catch:	Area code GearCond.code Validity code 250 m Speed: 1 1047.50 Cr CATCH/HOUR weight number 1174.85 5177 613.24 6221 39.53 22 20.91 3 1848.53 PE: PT No:3 PC) Purpose code: Area code GearCond.code 140 m Speed: 1 1.20 Cr CATCH/HOUR weight number 1.85 1.85 PE: PT No:3 PC) Purpose code: Area code GearCond.code 1.85 1.85	: 3 :: :: :: :: :: :: :: :: :: :
DG ::B15.55 B160.70 2.12 FDEPTH: 45 60 BDEPTH: 68 78 Towing dir: 270ø Wire out: Sorted: 41 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Lepidopus caudatus Trachurus trachurus Total DATE:13/12/00 GEAR TY: start stop duration TIME :07:17:59 07:57:03 39 (min LOG ::2286.64 2289.40 2.72 FDEPTH: 105 143 Towing dir: 289ø Wire out: Sorted: 1 Kg Total catch: SPECIES Mola mola Total DATE:13/12/00 GEAR TY: start stop duration TIME :09:27:53 09:47:11 19 (min LOG ::8301.59 8302.72 1.13 FDEPTH: 30 40 BDEPTH: 58 64 Towing dir: 288ø Wire out: Sorted: 44 Kg Total catch: SPECIES	Area code GearCond.code Validity code 250 m Speed: 1 1047.50 Cr CATCH/HOUR weight number 1174.85 5177 613.24 6221 39.53 22 20.91 3 1848.53 PE: PT No:3 PC) Purpose code: Area code GearCond.code Validity code 140 m Speed: 1 1.20 Cr CATCH/HOUR weight number 1.85 1.85 PE: PT No:3 PC) Purpose code: Area code GearCond.code dearCond.code dearCond.code dearCond.code GearCond.code GearCond.code GearCond.code GearCond.code GearCond.code GearCond.code GearCond.code GearCond.code GearCond.code CATCH/HOUR	: 3 :: :: :: :: :: :: :: :: :: :
DG ::B15.55 B10.70 2.12 FDEPTH: 45 60 BDEPTH: 68 78 Towing dir: 270ø Wire out: Sorted: 41 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Lepidopus caudatus Trachurus trachurus Total DATE:13/12/00 GEAR TY. start stop duration TIME :07:17:59 07:57:03 39 (min LOG ::8286.64 8289.40 2.72 FDEPTH: 105 143 Towing dir: 289ø Wire out: Sorted: 1 Kg Total catch: SPECIES Mola mola Total DATE:13/12/00 GEAR TY. start stop duration TIME :09:27:53 09:47:11 19 (min LOG ::8301.59 8302.72 1.13 FDEPTH: 30 40 BDEPTH: 58 64 Towing dir: 288ø Wire out: Sorted: 44 Kg Total catch: SPECIES Engraulis encrasicolus	Area code GearCond.code Validity code 250 m Speed: 1 1047.50 C/ CATCH/HOUR weight number 1174.85 5177 613.24 6221 39.53 22 20.91 3 1848.53 PE: PT No:3 PC) Purpose code: Area code GearCond.code Validity code 140 m Speed: 1 1.20 C/ CATCH/HOUR weight number 1.85 PE: PT No:3 PC) Purpose code: Area code GearCond.code Validity code 11.85 1.85 PE: PT No:3 PC) Purpose code: Area code GearCond.code Validity code 110 m Speed: 1 1308.80 C/ CATCH/HOUR weight number 1308.80 C/	: 3 :: :: :: :: :: :: :: :: :: :
DG : S185.55 8100.70 2.12 FDEPTH: 45 60 BDEPTH: 68 78 Towing dir: 270ø Wire out: Sorted: 41 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Lepidopus caudatus Trachurus trachurus Total DATE:13/12/00 GEAR TY. start stop duration TIME :07:17:59 07:57:03 39 (min LOG : 8286.64 8289.40 2.72 FDEPTH: 25 30 BDEPTH: 105 143 Towing dir: 289ø Wire out: Sorted: 1 Kg Total catch: SPECIES Mola mola Total DATE:13/12/00 GEAR TY. start stop duration TIME :09:27:53 09:47:11 19 (min LOG :8301.59 8302.72 1.13 FDEPTH: 58 64 Towing dir: 288ø Wire out: Sorted: 44 Kg Total catch: SPECIES Engraulis encrasicolus Sardina pilchardus	Area code GearCond.code Validity code 250 m Speed: 1 1047.50 C/ CATCH/HOUR weight number 1174.85 5177 613.24 6221 39.53 22 20.91 3 1848.53 PE: PT No:3 PC) Purpose code GearCond.code Validity code 140 m Speed: 1 1.20 C/ CATCH/HOUR weight number 1.85 1.85 PE: PT No:3 PC (ATCH/HOUR weight number 1.308.80 C/ CATCH/HOUR weight number 3420.00 3984 710.53 3840	: 3 :: :: :: :: :: :: :: :: :: :
DG : S185.55 810.70 2.12 FDEPTH: 45 60 BDEPTH: 68 78 Towing dir: 270ø Wire out: Sorted: 41 Kg Total catch: SPECIES Sardina pilchardus Engraulis encrasicolus Lepidopus caudatus Trachurus trachurus Total DATE:13/12/00 GEAR TY. start stop duration TIME :07:17:59 07:57:03 39 (min LOG : 8286.64 8289.40 2.72 FDEPTH: 25 30 BDEPTH: 105 143 Towing dir: 289ø Wire out: Sorted: 1 Kg Total catch: SPECIES Mola mola Total DATE:13/12/00 GEAR TY. start stop duration TIME :09:27:53 09:47:11 19 (min LOG :8301.59 8302.72 1.13 FDEPTH: 58 64 Towing dir: 288ø Wire out: Sorted: 44 Kg Total catch: SPECIES Engraulis encrasicolus Sardina pilchardus Trachurus trachurus	Area code GearCond.code Validity code 250 m Speed: 1 1047.50 C CATCH/HOUR weight number 1174.85 5177 613.24 6221 39.53 22 20.91 3 1848.53 PE: PT No:3 PC) Purpose code GearCond.code Validity code 140 m Speed: 1 1.20 C/ CATCH/HOUR weight number 1.85 1.85 1.85 PE: PT No:3 PC (CATCH/HOUR weight number Area code GearCond.code Validity code GearCond.code Validity code GearCond.code Validity code GearCond.code Validity code GearCond.code Validity code GearCond.code Validity code GearCond.code Validity code GearCond.code Validity code GearCond.code Validity code 348.80 C/ CATCH/HOUR weight number 3420.00 39844 710.53 3840	: 3 :: :: :: :: :: :: :: :: :: :

	1	PROJECT STATION:1304
DATE:13/12/00 GEAR TY start stop duration	PE: PT No:1 POS	SITION:Lat N 3156 Long W 942
TIME :12:52:04 13:29:09 37 (min LOG :8329.92 8332.44 2.49) Purpose code: Area code	1 1
FDEPTH: 20 20 BDEPTH: 43 44	GearCond.code Validity code	1
Towing dir: 265ø Wire out:	120 m Speed: 30	5 kn*10
Sorted: 42 Kg Total catch:	1692.00 CA	CH/HOUR: 2743.78
SPECIES	CATCH/HOUR	% OF TOT. C SAMP
Sardina pilchardus	weight numbers 2724.32 146270	s) 99.29 2376
Scomber japonicus	19.46 199	5 0.71
Total	2743.78	100.00
DATE:13/12/00 GEAR TY	PE: PT No:1 POS	PROJECT STATION:1305 SITION:Lat N 3159
TIME :16:29:32 16:45:54 16 (min) Purpose code:	Long W 946
FDEPTH: 25 20	GearCond.code	· 1
BDEPTH: 55 51 Towing dir: 111ø Wire out:	120 m Speed: 3	5 kn*10
Sorted: 34 Kg Total catch:	172.90 CA	TCH/HOUR: 648.38
SPECIES	CATCH/HOUR	% OF TOT. C SAMP
Sardina pilchardus	weight numbers	83.57 2377
Engraulis encrasicolus Trachurus trachurus	103.13 12319 2.63	5 15.91 2378 4 0.41
Allotheutis subulata	0.75 319	0.12
Total	648.39	100.01
DATE:13/12/00 GEAR TY	PE: PT No:7 POS	PROJECT STATION:1306 SITION:Lat N 3208
start stop duration TIME :20:20:07 20:52:29 32 (min) Purpose code:	Long W 934 1
LOG :8395.57 8397.37 1.77 FDEPTH: 10 10	Area code GearCond.code	: 1
BDEPTH: 38 43 Towing dir: 270ø Wire out:	Validity code 200 m Speed: 30	:) kn*10
Sorted: 47 Kg Total catch:	47.98 CA	TCH/HOUR: 89.96
SPECIES	CATCH/HOUR	% OF TOT. C SAMP
Sardina pilchardus	64.13 146	5 L 71.29 2377
Sardina pilchardus Scomber japonicus Engraulis encrasicolus	weight numbers 64.13 1461 11.81 144 8.83 1232	3 L 71.29 2377 L 13.13 2380 2 9.82 2378
Sardina pilchardus Scomber japonicus Engraulis encrasicolus Trachurus trachurus Belone belone gracilis	weight numbers 64.13 146 11.81 144 8.83 123 4.31 92 0.38 8	s 71.29 2377 4 13.13 2380 2 9.82 2378 2 4.79 2379 3 0.42 200
Sardina pilchardus Scomber japonicus Engraulis encrasicolus Trachurus trachurus Belone belone gracilis Allotheutis subulata Boops boops	weight number: 64.13 146: 11.81 144 8.83 123; 4.31 9; 0.38 8; 0.26 7; 0.15 ;	s 71.29 2377 1 13.13 2380 2 9.82 2378 2 4.79 2379 8 0.42 7 7 0.29 2 2 0.17 2
Sardina pilchardus Scomber japonicus Engraulis encrasicolus Trachurus trachurus Belone belone gracilis Allotheutis subulata Boops boops Trachurus picturatus	weight number: 64.13 1466 11.81 144 8.83 123 4.31 9: 0.38 4 0.26 7' 0.15 2 0.09 2 89.96	3 71.29 2377 4 13.13 2380 2 9.82 2378 2 4.79 2379 3 0.42 7 7 0.29 0.17 2 0.10 100.01
Sardina pilchardus Scomber japonicus Engraulis encrasicolus Trachurus trachurus Belone belone gracilis Allotheutis subulata Boops boops Trachurus picturatus Total	weight number: 64.13 1466 11.81 144 8.83 123 4.31 92 0.38 8 0.26 77 0.15 2 0.09 2 89.96	3 71.29 2377 4 13.13 2380 2 9.82 2378 2 4.79 2379 3 0.42 7 0.29 2 0.17 2 0.10
Sardina pilchardus Scomber japonicus Engraulis encrasicolus Trachurus trachurus Belone belone gracilis Allotheutis subulata Boops boops Trachurus picturatus Total	Weight number: 64.13 1466 11.81 144 8.83 1233 4.31 93 0.38 8 0.26 77 0.15 2 0.09 2 89.96	3 1 71.29 2377 4 13.13 2380 2 9.82 2378 2 4.79 2379 3 0.42 7 0.29 2 0.17 2 0.10 100.01
Sardina pilchardus Scomber japonicus Engraulis encrasicolus Trachurus trachurus Belone belone gracilis Allotheutis subulata Boops boops Trachurus picturatus Total DATE:14/12/00 GEAR TY start stop duration	Weight number: 64.13 146: 11.81 14: 8.83 123: 4.31 9: 0.38 8 0.26 7? 0.15 : 0.09 2 89.96	3 1 71.29 2377 1 13.13 2380 2 9.82 2378 2 4.79 2379 3 0.42 7 7 0.29 2 2 0.10
Sardina pilchardus Scomber japonicus Engraulis encrasicolus Trachurus trachurus Belone belone gracilis Allotheutis subulata Boops boops Trachurus picturatus Total DATE:14/12/00 GEAR TY start stop duration TIME :00:20:55 00:39:58 19 (min LOG :8428.25 8429.52 1.26	<pre>weight number: 64.13 1466 11.81 144 8.83 1233 4.31 92 0.38 8 0.26 77 0.15 2 0.09 2 89.96</pre>	3 71.29 2377 4 13.13 2380 2 9.82 2378 2 4.79 2379 3 0.42 7 0.29 2 0.17 2 0.10 100.01 PROJECT STATION:1307 SITION:LAL N 3216 Long W 927 1
Sardina pilchardus Scomber japonicus Engraulis encrasicolus Trachurus trachurus Belone belone gracilis Allotheutis subulata Boops boops Trachurus picturatus Total DATE:14/12/00 GEAR TY start stop duration TIME :00:20:55 00:39:58 19 (min LOG :8428.25 8429.52 1.26 FDEPTH: 20 30 BDEPTH: 47 49	Weight number: 64.13 146: 11.81 14: 8.83 123: 4.31 9: 0.38 8 0.26 7: 0.15 2 0.09 2 89.96 PE: PT No:1 PO Purpose code: Area code GearCond.code Validity code	3 71.29 2377 4 13.13 2380 2 9.82 2378 2 4.79 2379 3 0.42 2.379 2 0.17 2 2 0.10
Sardina pilchardus Scomber japonicus Engraulis encrasicolus Trachurus trachurus Belone belone gracilis Allotheutis subulata Boops boops Trachurus picturatus Total DATE:14/12/00 GEAR TY start stop duration TIME :00:20:55 00:39:58 19 (min LOG :8428.25 8429.52 1.26 FDEPTH: 20 30 BDEPTH: 47 49 Towing dir: 248ø Wire out:	<pre>weight number: 64.13 146: 11.81 14/ 8.83 123; 4.31 9; 0.38 8 0.26 77 0.15 2 0.09 2 89.96 PE: PT No:1 POS) Purpose code: Area code GearCond.code Validity code 120 m Speed: 3/</pre>	S 1 71.29 2377 1 13.13 2380 2 9.82 2378 2 4.79 2379 3 0.42 7 0.29 2 0.17 2 0.10 100.01 PROJECT STATION:1307 SITION:Lat N 3216 Long W 927 1 : 1 : 4 kn*10
Sardina pilchardus Scomber japonicus Engraulis encrasicolus Trachurus trachurus Belone belone gracilis Allotheutis subulata Boops boops Trachurus picturatus Total DATE:14/12/00 GEAR TY start stop duration TIME :00:20:55 00:39:58 19 (min LOG :8428.25 8429.52 1.26 FDEPTH: 20 30 BDEPTH: 47 49 Towing dir: 248ø Wire out: Sorted: 37 Kg Total catch:	<pre>weight number: 64.13 146: 11.81 14: 8.83 123; 4.31 9; 0.38 8 0.26 77 0.15 ; 0.09 ; 89.96</pre>	<pre> T1.29 2377 T1.29 2377 T1.29 2377 T1.13 2380 9.82 2378 4.79 2379 0.42 0.12 0.17 0.10 100.01 PROJECT STATION:1307 SITION:Lat N 3216 Long W 927 1 1 4 kn*10 PCH/HOUR: 472.80 </pre>
Sardina pilchardus Scomber japonicus Engraulis encrasicolus Trachurus trachurus Belone belone gracilis Allotheutis subulata Boops boops Trachurus picturatus Total DATE:14/12/00 GEAR TY start stop duration TIME:00:20:55 00:39:58 19 (min LOG :8428.25 8429.52 1.26 FDEPTH: 20 30 BDEPTH: 20 30 BDEPTH: 47 49 Towing dir: 248ø Wire out: Sorted: 37 Kg Total catch:	Weight number: 64.13 146: 11.81 14: 8.83 123: 4.31 9: 0.38 8 0.26 7' 0.15 2: 0.09 2: 89.96 PE: PT No:1 PO:) Purpose code: Area code GearCond.code Validity code 120 m Speed: 3' 149.72 CA: CATCH/HOUR	* 1 71.29 2377 4 13.13 2380 2 9.82 2378 2 4.79 2379 3 0.42 7 0.29 2 0.17 2 0.10 100.01 PROJECT STATION:1307 SITTON:Lat N 3216 Long W 927 1 * 1 * n*10 * OF TOT. C SAMP
Sardina pilchardus Scomber japonicus Engraulis encrasicolus Trachurus trachurus Belone belone gracilis Allotheutis subulata Boops boops Trachurus picturatus Total DATE:14/12/00 GEAR TY Start stop duration TIME :00:20:55 00:39:58 19 (min LOG :8428.25 8429.52 1.26 FDEPTH: 20 30 BDEPTH: 47 49 Towing dir: 248ø Wire out: Sorted: 37 Kg Total catch: SPECIES Sardina pilchardus	<pre>weight number: 64.13 146: 11.81 14/ 8.83 123; 4.31 9; 0.38 8 0.26 77 0.15 2 0.09 2 89.96 PE: PT No:1 POS 0 Purpose code: Area code GearCond.code Validity code 120 m Speed: 3/ 149.72 CA CATCH/HOUR weight number: 461.05 12633</pre>	* 13.13 2380 2 9.82 2378 2 4.79 2379 3 0.42 7 0.29 2 0.17 2 0.10
Sardina pilchardus Scomber japonicus Engraulis encrasicolus Trachurus trachurus Belone belone gracilis Allotheutis subulata Boops boops Trachurus picturatus Total DATE:14/12/00 GEAR TY start stop duration TIME:00:20:55:00:39:58:19 (min LOG :8428.25:8429.52:1.26 FDEPTH: 20:30 BDEPTH: 47:49 Towing dir: 248ø Wire out: Sorted: 37 Kg Total catch: SPECIES Sardina pilchardus Pagellus acarne Engraulis encrasicolus	<pre>weight number: 64.13 146: 11.81 14/ 8.83 123; 4.31 9; 0.38 8 0.26 77 0.15 2; 0.09 2 89.96 PE: PT No:1 POS) Purpose code: Area code GearCond.code Validity code 120 m Speed: 3 149.72 CATCH/HOUR weight number: 461.05 1263; 6.44 1044 2.40 366</pre>	* 1 71.29 2377 1 13.13 2380 2 9.82 2378 2 4.79 2379 3 0.42 7 0.29 2 0.17 2 0.10
Sardina pilchardus Scomber japonicus Engraulis encrasicolus Trachurus trachurus Belone belone gracilis Allotheutis subulata Boops boops Trachurus picturatus Total DATE:14/12/00 GEAR TY start stop duration TIME :00:20:55 00:39:58 19 (min LOG :8428.25 8429.52 1.26 FDEPTH: 20 30 BDEPTH: 47 49 Towing dir: 248ø Wire out: Sorted: 37 Kg Total catch: SPECIES Sardina pilchardus Pagellus acarne Engraulis encrasicolus Scomber japonicus Pagellus erythrinus	<pre>weight number: 64.13 146: 11.81 144 8.83 123: 4.31 9; 0.38 8 0.26 7? 0.15 2 89.96 PE: PT No:1 POC) Purpose code: Area code GearCond.code Validity code 120 m Speed: 3: 149.72 CATCH/HOUR weight numbers 461.05 1263; 6.44 1044 1.89 2? 1.01 2</pre>	* 1 71.29 2377 1 13.13 2380 2 9.82 2378 2 4.79 2379 3 0.42 7 0.29 2 0.17 2 0.10
Sardina pilchardus Scomber japonicus Engraulis encrasicolus Trachurus trachurus Belone belone gracilis Allotheutis subulata Boops boops Trachurus picturatus Total DATE:14/12/00 GEAR TY start stop duration TIME :00:20:55 00:39:58 19 (min LOG :8428.25 8429.52 1.26 FDEPTH: 20 30 BDEPTH: 47 49 Towing dir: 248ø Wire out: Sorted: 37 Kg Total catch: SPECIES Sardina pilchardus Pagellus acarne Engraulis encrasicolus Scomber japonicus Pagellus erythrinus	<pre>weight number: 64.13 146: 11.81 14/ 8.83 123; 4.31 9; 0.38 8 0.26 77 0.15 2; 0.09 2; 89.96 PE: PT No:1 PO:) Purpose code: Area code GearCond.code Validity code 120 m Speed: 3/ 149.72 CA: CATCH/HOUR weight number: 461.05 1263; 6.44 1044 2.40 364 1.89 2; 1.01 2; 472.79</pre>	* 71.29 2377 4 13.13 2380 2 9.82 2378 2 4.79 2379 3 0.42 7 0.29 2 0.17 2 0.10
Sardina pilchardus Scomber japonicus Engraulis encrasicolus Trachurus trachurus Belone belone gracilis Allotheutis subulata Boops boops Trachurus picturatus Total DATE:14/12/00 GEAR TY Start stop duration TIME :00:20:55 00:39:58 19 (min LOG :8428.25 8429.52 1.26 FDEPTH: 20 30 BDEPTH: 47 49 Towing dir: 248ø Wire out: Sorted: 37 Kg Total catch: SPECIES Sardina pilchardus Pagellus acarne Engraulis encrasicolus Scomber japonicus Pagellus erythrinus	<pre>weight number: 64.13 146: 11.81 14/ 8.83 123; 4.31 9; 0.38 8 0.26 77 0.15 2 0.09 2 89.96 PE: PT No:1 POS 0 Purpose code: Area code GearCond.code Validity code 120 m Speed: 3/ 149.72 CA CATCH/HOUR weight number; 461.05 1263; 6.44 104/ 2.40 36(1.89 2; 1.01 5 472.79</pre>	<pre> T1.29 2377 T1.29 2377 T13.13 2380 9.82 2378 4.79 2379 0.42 0.10 100.01 PROJECT STATION:1307 SITION:Lat N 3216 Long W 927 1</pre>
Sardina pilchardus Scomber japonicus Engraulis encrasicolus Trachurus trachurus Belone belone gracilis Allotheutis subulata Boops boops Trachurus picturatus Total DATE:14/12/00 GEAR TY Start stop duration TIME :00:20:55 00:39:58 19 (min LOG :8428.25 8429.52 1.26 FDEPTH: 20 30 BDEPTH: 47 49 Towing dir: 248ø Wire out: Sorted: 37 Kg Total catch: SPECIES Sardina pilchardus Pagellus acarne Engraulis encrasicolus Scomber japonicus Pagellus erythrinus Total	Weight number: 64.13 146: 11.81 14: 8.83 123: 4.31 9; 0.38 8 0.26 7? 0.15 2 89.96 PE: PT No:1 POS Purpose code: Area code Validity code 120 m Speed: 3: 149.72 CATCH/HOUR weight number: 461.05 1263: 6.44 1044 1.89 22 1.01 2 472.79	* 71.29 2377 1 13.13 2380 2 9.82 2378 2 4.79 2379 3 0.42 7 0.29 2 0.17 2 0.10
Sardina pilchardus Scomber japonicus Engraulis encrasicolus Trachurus trachurus Belone belone gracilis Allotheutis subulata Boops boops Trachurus picturatus Total DATE:14/12/00 GEAR TY start stop duration TIME :00:20:55 00:39:58 19 (min LOG :8428.25 8429.52 1.26 FDEPTH: 20 30 BDEPTH: 47 49 Towing dir: 248ø Wire out: Sorted: 37 Kg Total catch: SPECIES Sardina pilchardus Pagellus acarne Engraulis encrasicolus Scomber japonicus Pagellus acythrinus Total DATE:14/12/00 GEAR TY start stop duration TIME :10:04:18 10:25:38 21 (min	<pre>weight number: 64.13 146: 11.81 14/ 8.83 123; 4.31 9; 0.38 8 0.26 77 0.15 ; 0.09 2 89.96</pre>	<pre> T1.29 2377 T3.13 2380 9.82 2378 4.79 2379 0.42 0.12 0.10 100.01 PROJECT STATION:1307 SITION:Lat N 3216 Long W 927 1 t kn*10 PCH/HOUR: 472.80 \$ OF TOT. C SAMP 97.51 1307 1.36 0.51 0.5</pre>
Sardina pilchardus Scomber japonicus Engraulis encrasicolus Trachurus trachurus Belone belone gracilis Allotheutis subulata Boops boops Trachurus picturatus Total DATE:14/12/00 GEAR TY start stop duration TIME :00:20:55 00:39:58 19 (min LOG :8428.25 8429.52 1.26 FDEPTH: 20 30 BDEPTH: 47 49 Towing dir: 248ø Wire out: Sorted: 37 Kg Total catch: SPECIES Sardina pilchardus Pagellus acarne Engraulis encrasicolus Scomber japonicus Pagellus erythrinus Total DATE:14/12/00 GEAR TY start stop duration TIME :10:04:18 10:25:38 21 (min LOG :8516.26 8517.36 1.09 FDEPTH: 72 66	<pre>weight number: 64.13 146: 11.81 14/ 8.83 123; 4.31 9; 0.38 8 0.26 77 0.15 2; 0.09 2; 89.96</pre>	T1.29 2377 13.13 2380 2 9.82 2378 4.79 2379 0.42 0.2379 70.29 0.17 20.10 0.17 100.01 100.01 PROJECT STATION:1307 SITION:Lat N 3216 Long W 927 1 4 kn*10 PCH/HOUR: 472.80 * OF TOT. C SAMP 5 0.51 5 0.51 5 0.40 3 0.21 99.99 99 PROJECT STATION:1308 SITION:Lat N 3237 Long W 918 1 3
Sardina pilchardus Scomber japonicus Engraulis encrasicolus Trachurus trachurus Belone belone gracilis Allotheutis subulata Boops boops Trachurus picturatus Total DATE:14/12/00 GEAR TY start stop duration TIME :00:20:55 00:39:58 19 (min LOG :8428.25 8429.52 1.26 FDEPTH: 20 30 BDEPTH: 47 49 Towing dir: 248ø Wire out: Sorted: 37 Kg Total catch: SPECIES Sardina pilchardus Pagellus acarne Engraulis encrasicolus Scomber japonicus Pagellus erythrinus Total DATE:14/12/00 GEAR TY start stop duration TIME :10:04:18 10:25:38 21 (min LOG :8516.26 8517.36 1.09 FDEPTH: 72 66 EDEPTH: 72 66 EDEPTH: 72 66	<pre>weight number: 64.13 146: 11.81 14/ 8.83 123; 4.31 9; 0.38 4 0.26 77 0.15 2 0.09 2 89.96</pre>	T1.29 2377 13.13 2380 2 9.82 2378 4 13.13 2380 2 9.82 2378 4 179 2379 3 0.42 2379 3 0.42 2379 2 0.17 2 2 0.10
Sardina pilchardus Scomber japonicus Engraulis encrasicolus Trachurus trachurus Belone belone gracilis Allotheutis subulata Boops boops Trachurus picturatus Total DATE:14/12/00 GEAR TY start stop duration TIME :00:20:55 00:39:58 19 (min LOG :8428.25 8429.52 1.26 FDEPTH: 20 30 BDEPTH: 47 49 Towing dir: 248ø Wire out: Sorted: 37 Kg Total catch: SPECIES Sardina pilchardus Pagellus acarne Engraulis encrasicolus Scomber japonicus Pagellus erythrinus Total DATE:14/12/00 GEAR TY start stop duration TIME :00:4:18 10:25:38 21 (min LOG :8516.26 8517.36 1.09 FDEPTH: 72 66 BDEPTH: 72 66 DTOWING dir: 85ø Wire out: Sorted: 44 Kg Total catch:	<pre>weight number: 64.13 146: 11.81 14/ 8.83 123; 4.31 9; 0.38 8 0.26 77 0.15 2 89.96 PE: PT No:1 POS) Purpose code: Area code GearCond.code Validity code 120 m Speed: 3/ 149.72 CAT CATCH/HOUR weight number: 461.05 1263; 6.4 104 1.89 2? 1.01 2 472.79 PE: ET No:2 POS) Purpose code: Area code CATCH/HOUR weight number: 472.79 PE: ET No:2 POS) Purpose code: Area code GearCond.code Validity code 280 m Speed: 3/ Area code CATCH/COM Area code CAT</pre>	<pre> T1.29 2377 13.13 2380 9.82 2378 4.79 2379 0.42 0.12 0.10 100.01 PROJECT STATION:1307 SITION:Lat N 3216 Long W 927 1 1 4 kn*10 PCCH/HOUR: 472.80 \$ OF TOT. C SAMP 97.51 1307 1.36 0.51 0.40 0.21 99.99 PROJECT STATION:1308 SITION:Lat N 3237 Long W 918 1 3 1 3 1</pre>
Sardina pilchardus Scomber japonicus Engraulis encrasicolus Trachurus trachurus Belone belone gracilis Allotheutis subulata Boops boops Trachurus picturatus Total DATE:14/12/00 GEAR TY Start stop duration TIME :00:20:55 00:39:58 19 (min LOG :8428.25 0429.52 1.26 FDEPTH: 20 30 EDEPTH: 47 49 Towing dir: 248ø Wire out: Sorted: 37 Kg Total catch: SPECIES Sardina pilchardus Pagellus acarne Engraulis encrasicolus Scomber japonicus Pagellus acrythrinus Total DATE:14/12/00 GEAR TY Start stop duration TIME :10:04:18 10:25:38 21 (min LOG :8516.26 8517.36 1.09 FDEPTH: 72 66 EDEPTH: 72 66 EDEPTH: 72 66 Towing dir: 85ø Wire out: Sorted: 44 Kg Total catch:	Weight number: 64.13 146: 11.81 144: 8.83 123: 4.31 9; 0.38 8 0.26 77 0.15 2 89.96 PE: PT No:1 PO() Purpose code: Area code GearCond.code Validity code 120 m Speed: 3: 149.72 CATCH/HOUR weight number: 461.05 1263; 6.44 1044 2.40 36(1.89 2); 1.89 2); 1.89 2; 1.01 2 472.79 PE: BT No:2 PO() Purpose code: Area code GearCond.code 280 m Speed: 3(875.80 CATCH/HOUR	* 71.29 2377 1 13.13 2380 2 9.82 2378 2 4.79 2379 3 0.42 7 0.29 2 0.17 2 0.10
Sardina pilchardus Scomber japonicus Engraulis encrasicolus Trachurus trachurus Belone belone gracilis Allotheutis subulata Boops boops Trachurus picturatus Total DATE:14/12/00 GEAR TY start stop duration TIME :00:20:55 00:39:58 19 (min LOG :8428.25 4429.52 1.26 FDEPTH: 20 30 BDEPTH: 21 30 BDEPTH: 47 49 Towing dir: 248ø Wire out: Sorted: 37 Kg Total catch: SPECIES Sardina pilchardus Pagellus acarne Engraulis encrasicolus Scomber japonicus Pagellus erythrinus Total DATE:14/12/00 GEAR TY start stop duration TIME :10:04:18 10:25:38 21 (min LOG :8516.26 8517.36 1.09 FDEPTH: 72 66 BDEPTH: 72 66 Towing dir: 85ø Wire out: Sorted: 44 Kg Total catch: SPECIES Engraulis encrasicolus	<pre>weight number: 64.13 146: 11.81 14/ 8.83 123; 4.31 9; 0.38 8 0.26 77 0.15 ; 0.09 ; 89.96 PE: PT No:1 PO:) Purpose code: Area code GearCond.code Validity code 120 m Speed: 3/ 149.72 CA: CATCH/HOUR weight number: 461.05 1263; 6.44 1044 2.40 36(1.89 22; 1.01 ; 472.79 PE: BT No:2 PO:) Purpose code: Area code GearCond.code Validity code 12.40 36(1.89 22; 1.01 ; 472.79 PE: BT No:2 PO:) Purpose code: Area code GearCond.code Validity code 280 m Speed: 3(875.80 CA: CATCH/HOUR weight number: 2400.00 230844</pre>	<pre> T1.29 2377 T3.13 2380 9.82 2378 4.79 2379 0.42 0.29 0.17 0.10 100.01 PROJECT STATION:1307 SITION:Lat N 3216 Long W 927 1 t kn*10 PROJECT STATION: 472.80 \$ OF TOT. C SAMP 97.51 1307 1.36 0.51 0.40 0.21 99.99 PROJECT STATION:1308 SITION:Lat N 3237 Long W 918 1 s hx*10 PROJECT STATION:1308 SITION:Lat N 3237 Long W 918 1 s hx*10 PROJECT STATION:1308 SITION:Lat N 3237 Long W 918 1 s hx*10 PROJECT STATION:1308 SITION:Lat N 3237 Long W 918 1 s hx*10 PROJECT STATION:1308 SITION:Lat N 3237 Long W 918 1 s hx*10 PROJECT STATION:1308 SITION:Lat N 3237 Long W 918 1 s hx*10 PROJECT STATION:1308 SITION:Lat N 3237 Long W 918 1 s hx*10 PROJECT STATION:1308 SITION:Lat N 3237 Long W 918 1 s hx*10 PROJECT STATION:1308 SITION:Lat N 3237 Long W 918 1 s hx*10 PROJECT STATION:1308 SITION:Lat N 3237 Long W 918 1 s s hx*10 PROJECT STATION:1308 SITION:Lat N 3237 Long W 918 1 s s hx*10 PROJECT STATION:1308 SITION:Lat N 3237 Long W 918 1 s s hx*10 PROJECT STATION:1308 SITION:Lat N 3237 Long W 918 1 s s s hx*10 PROJECT STATION:1308 SITION:Lat N 3237 Long W 918 s</pre>
Sardina pilchardus Scomber japonicus Engraulis encrasicolus Trachurus trachurus Belone belone gracilis Allotheutis subulata Boops boops Trachurus picturatus Total DATE:14/12/00 GEAR TY start stop duration TIME :00:20:55 00:39:58 19 (min LOG :8428.25 8429.52 1.26 FDEPTH: 20 30 BDEPTH: 47 49 Towing dir: 248ø Wire out: Sorted: 37 Kg Total catch: SPECIES Sardina pilchardus Pagellus acarne Engraulis encrasicolus Scomber japonicus Pagellus erythrinus Total DATE:14/12/00 GEAR TY start stop duration TIME :0:04:18 10:25:38 21 (min LOG :8516.26 8517.36 1.09 FDEPTH: 72 66 BDEPTH: 72 66 Towing dir: 85ø Wire out: Sorted: 44 Kg Total catch: SPECIES Engraulis encrasicolus Sardina pilchardus Dicentrarchus labrex	<pre>weight number: 64.13 146: 11.81 14/ 8.83 123; 4.31 9; 0.38 10 0.26 77 0.15 2; 0.09 2; 89.96</pre>	Image: style="text-align: center;">
Sardina pilchardus Scomber japonicus Engraulis encrasicolus Trachurus trachurus Belone belone gracilis Allotheutis subulata Boops boops Trachurus picturatus Total DATE:14/12/00 GEAR TY start stop duration TIME :00:20:55 00:39:58 19 (min LOG :8428.25 8429.52 1.26 FDEPTH: 20 30 BDEPTH: 47 49 Towing dir: 248ø Wire out: Sorted: 37 Kg Total catch: SPECIES Sardina pilchardus Pagellus acarne Engraulis encrasicolus Scomber japonicus Pagellus erythrinus Total DATE:14/12/00 GEAR TY start stop duration TIME :10:04:18 10:25:38 21 (min LOG :8516.26 8517.36 1.09 FDEPTH: 72 66 EDEPTH: 72 66 Towing dir: 85ø Wire out: Sorted: 44 Kg Total catch: SPECIES Engraulis encrasicolus Sardina pilchardus SPECIES	<pre>weight number: 64.13 146: 11.81 14/ 8.83 123; 4.31 9; 0.38 4 0.26 77 0.15 2 0.09 2 89.96 PE: PT No:1 PO2) Purpose code: Area code GearCond.code Validity code 120 m Speed: 3/ 149.72 CA? CATCH/HOUR weight number: 461.05 1263; 6.44 104/ 2.40 360 1.89 2! 1.01 2 TPE: BT No:2 PO2) Purpose code: Area code GearCond.code Validity code 280 m Speed: 30 875.80 CA? CATCH/HOUR weight number: 2400.00 230840 102.29 411 9.66 1 0.63 2 0.14</pre>	<pre> T1.29 2377 13.13 2380 9.82 2378 4.79 2379 0.42 0.42 0.17 0.10 100.01 PROJECT STATION:1307 SITION:Lat N 3216 Long W 927 1 1 4 kn*10 PROJECT STATION: 1307 5 97.51 1307 1 1 1 9 99.99 PROJECT STATION:1308 SITION:Lat N 3237 Long W 918 1 3 90.99 PROJECT STATION:1308 SITION:Lat N 3237 Long W 918 1 3 90.99 PROJECT STATION:1308 SITION:Lat N 3237 Long W 918 1 3 90.99 PROJECT STATION:1308 SITION:Lat N 3237 Long W 918 1 3 90.99 PROJECT STATION:1308 Long W 918 1 3 90.99 PROJECT STATION:1308 SITION:Lat N 3237 Long W 918 1 3 90.99 PROJECT STATION:1308 SITION:Lat N 3237 Long W 918 1 3 90.99 </pre>

	PROJECT STATION:1309
DATE:14/12/00 GEAR TYPE:	BT No:2 POSITION:Lat N 3242
start stop duration	Long W 906
TIME :16:10:50 16:40:40 30 (min)	Purpose code: 1
LOG :8571.84 8573.58 1.72	Area code : 1
FDEPTH: 34 28 0	GearCond.code:
BDEPTH: 34 28	Validity code:
Towing dir: 215ø Wire out: 12	0 m Speed: 30 kn*10
Sorted: 32 Kg Total catch:	548.86 CATCH/HOUR: 1097.72
CDFCIFC	CATCH/HOUR & OF TOT C SAMP
SPECIES	ight numbers
Trachuruc trachuruc (1	1911C 110000ELS /E /0 2202
Sardina pilchardus 2	29 92 9242 20 95 2382
Loligo vulgaris	09.80 2146 10.00
Diplodus sargus *	06.00 130 9.66
Pagellus acarne	31.40 64 2.86
Diplodus bellottii	24.24 264 2.21
Diplodus vulgaris	22.00 14 2.00
Lichia amia	20.00 2 1.82
Dicentrarchus punctatus	18.00 28 1.64
Pagellus acarne	12.96 360 1.18
Dicentrarchus labrax	12.00 6 1.09
Zeus faber	5.40 4 0.49
Aspitrigla obscura	2.60 4 0.24
Liza aurata	2.40 2 0.22
Balistes sp.	1.80 2 0.16
Total 10	97.72 100.00

Annex II Instruments and fishing gear used

The Simrad EK-500, 38 kHz echo scientific sounder was used during the survey for fish abundance estimation. The Bergen Echo Integrator system (BEI) logging the echogram raw data from the sounder, was used to scrutinize the acoustic records, and to allocate integrator data to fish species. All raw data was stored to tape, and a backup of the database of scrutinized data, stored. The details of the settings of the 38 kHz where as follows:

Transceiver-1 menu	Transducer depth	5.5 - 7.5 m
	Absorbtion coeff.	10 dB/km
	Pulse length	medium (1ms)
	Bandwidth	wide
	Max power	2000 Watt
	2-way beam angle	-21.0 dB
	SV transducer gain	27.45 dB
	TS transducer gain	27.65 dB
	Angle sensitivity	21.9
	3 dB beamwidth	6.8°
	Alongship offset	-0.03°
	Athwardship offset	0.06°
Display menu	Echogram	1
	Bottom range	10 m
	Bottom range start	10 m
	TVG	20 log R
	Sv colour min	-67 dB
	TS Colour minimum	-60 dB
Printer- menu	Range	0 - 50 or 0 -100 m and 100 - 350m
	TVĞ	20 log R
	Sv colour min	-63 dB

A calibration experiment using a standard copper sphere, performed in Baia dos Elephantos 12 August 1999 gave the following results:

Sv Transducer gain 27.45 dB Ts Transducer gain 27.65 dB

Fishing gear

The vessel has two different sized "Åkrahamn" pelagic trawls and one "Gisund super" bottom trawl. For all trawls, the Tyborøn, 7.8m² (1 670 kg) trawl doors were used. Complete drawings of the trawls used are included.

Annex III Biomass and number by fish length class

Sardine (Sardina pilchardus)

MOROCCO - MAURITANIA, November-December 2000

Length	C.Juby-	C.Cantin	C.Bojado	or-C.Juby C.Blanc-C.Bojador C.Timiris-C.Blanc Total		C.Blanc-C.Bojador C.Timiris-C.Blanc To		tal		
cm	tonnes	N millions	tonnes	N millions	tonnes	N millions	tonnes	N millions	tonnes	N millions
5										
6										
7										
8										
9	539	77	904	129	447	64			1,890	269
10	1,838	194	11,876	1,251	3,262	344			16,975	1,788
11	15,025	1,203	37,293	2,990	7,652	614	710	57	60,680	4,864
12	68,771	4,288	37,495	2,341	7,561	472	36,586	2,284	150,413	9,386
13	168,679	8,343	13,206	655	34,369	1,704	141,347	7,006	357,601	17,707
14	139,705	5,585	3,878	155	41,920	1,677	107,734	4,310	293,236	11,727
15	126,248	4,134	20,254	663	78,004	2,554	28,126	921	252,631	8,273
16	80,896	2,196	53,643	1,456	109,418	2,970	4,195	114	248,153	6,737
17	46,903	1,067	11,740	267	52,291	1,190			110,934	2,524
18	55,727	1,073	9,758	188	32,356	623			97,841	1,884
19	46,576	766	53,959	887	45,933	755			146,467	2,409
20	19,208	272	110,831	1,569	36,302	514			166,341	2,355
21	2,520	31	54,879	673	180,991	2,221			238,390	2,925
22			107,184	1,148	557,726	5,971			664,910	7,119
23			51,060	480	368,606	3,464			419,666	3,944
24			17,048	141	97,366	807			114,414	949
25					21,239	156			21,239	156
26					3,370	22			3,370	22
27					1,450	9			1,450	9
28										
29										
30										
Total	772,634	29,228	595,006	14,994	1,680,264	26,131	318,698	14,692	3,366,603	85,045

Round sardinella (Sardinella aurita)

Length	Number in millions			Biomass in tonnes				
cm	Senegal	Mauritania	Morocco	Total	Senegal	Mauritania	Morocco	Total
5								
6								
7								
8								
9			1,156.8	1,156.8			9,323	9,323
10			1,060.4	1,060.4			11,539	11,539
11			964.0	964.0			13,782	13,782
12			192.8	192.8			3,540	3,540
13	15.6	2.1		17.6	368	48		416
14	31.2	4.1		35.3	912	120		1,032
15		8.2		8.2		293		293
16	1.4	2.0		3.3	58	85		144
17	1.4	3.9		5.3	70	203		273
18		3.9		3.9		240		240
19	2.7	4.7		7.4	193	333		526
20	1.4	2.7		4.1	112	224		336
21	9.5	8.9		18.3	905	845		1,750
22	19.1	18.5		37.5	2,085	2,018		4,103
23	14.3	82.1		96.3	1,779	10,224		12,003
24	46.5	71.8	96.4	214.7	6,559	10,138	13,326	30,023
25	53.3	45.0	96.4	194.8	8,491	7,167	15,026	30,684
26	85.0	28.3		113.2	15,179	5,052		20,232
27	46.3	46.4		92.7	9,242	9,260		18,502
28	27.6	77.3	470.0	574.8	6,140	17,168	102,264	125,572
29		46.7		46.7		11,498		11,498
30	1.4	47.2		48.5	369	12,849		13,218
31		82.9	470.0	552.9		24,882	138,077	162,959
32	3.7	182.5		186.2	1,211	60,135		61,346
33		154.0	566.4	720.3		55,566	200,150	255,717
34	1.4	153.9	939.9	1,095.2	534	60,683	362,807	424,024
35		64.7		64.7		27,781		27,781
36		17.5	96.4	113.9		8,146	44,065	52,211
37		24.1	939.9	964.0		12,212	465,921	478,133
38		4.8	470.0	474.8		2,641	252,099	254,739
39								
40								
41								
42								
43								
44								
45								
46								
47								
48								
49								
50		4 10		0.000 -		000.015	4 00 1 0 1 -	0.005.045
Total	361.4	1,187.9	7,519.4	9,068.7	54,208	339,813	1,631,919	2,025,940

SENEGAL - THE GAMBIA - MAURITANIA - MOROCCO, October-December 2000

Flat sardinella (Sardinella maderensis)

Length	Number in millions							
cm	Senegal	Mauritania	Morocco	Total	Senegal	Mauritania	Morocco	Total
5								
6								
7								
8	1.4			1.4	8			8
9	1.4			1.4	11			11
10	1.4	17.6		19.0	15	196		211
11	14.7	52.9		67.6	215	772		987
12	18.1	18.3		36.3	339	343		681
13	37.9	57.4		95.3	895	1,357		2,252
14	9.8	106.7		116.5	286	3,124		3,410
15	7.9	50.3		58.1	281	1,797		2,078
16	41.5	20.7		62.2	1,790	892		2,682
17	2.7	18.4		21.1	139	948		1,087
18		5.9		5.9		360		360
19		0.7		0.7		47		47
20	17.5			17.5	1,444			1,444
21	203.2	6.9		210.0	19,384	654		20,038
22	272.0	0.7		272.6	29,741	72		29,813
23	319.8	2.6		322.4	39,840	328		40,168
24	438.8	14.6		453.4	61,951	2,061		64,012
25	366.6	26.1		392.7	58,355	4,159		62,513
26	138.6	65.3		203.9	24,753	11,666		36,419
27	25.6	80.8		106.4	5,105	16,132		21,237
28	8.0	138.0		146.0	1,786	30,667		32,453
29	4.7	161.3		166.0	1,168	39,746		40,914
30		265.8		265.8		72,386		72,386
31		206.9		206.9		62,083		62,083
32		253.9		253.9		83,661		83,661
33		250.0		250.0		90,243		90,243
34		243.1		243.1		95,843		95,843
35		89.0		89.0		38,210		38,210
36		52.2		52.2		24,368		24,368
37		15.6		15.6		7,890		7,890
38		5.2		5.2		2,846		2,846
39								
40								
41								
42								
43								
44								
45								
46								
47								
48								
49								
50								
Total	1931.3	2226.8		4158.1	247,506	592,849		840,355

SENEGAL - THE GAMBIA - MAURITANIA - MOROCCO, October-December 2000

Annex I, page 4

Anchovy (Engraulis encrasicolus)

Length	C.Juby-	C.Cantin	C.Blanc	-C.Juby	Total		
cm	tonnes	N millions	tonnes	N millions	tonnes	N millions	
5							
6							
7							
8	53	16	43	13	95	29	
9	187	40	159	34	346	75	
10	5,866	938	461	74	6,327	1,012	
11	43,145	5,253	2,949	359	46,094	5,613	
12	36,800	3,489	6,416	608	43,215	4,097	
13	15,768	1,187	3,485	262	19,253	1,449	
14	2,580	157	464	28	3,044	185	
15	337	17	170	8	507	25	
16							
17							
18							
19							
20							
Total	104,734	11,097	14,148	1,387	118,882	12,485	

MOROCCO, November-December 2000

Annex III, page 5

Atlantic horse mackerel (Trachurus trachurus)

C.Juby-C.Cantin C.Blanc-C.Juby Total Length N millions N millions tonnes tonnes N millions cm tonnes 5 6 7 8 9 179 179 18.4 10 18.4 1,335 104.5 104.5 11 1,335 52.7 6,141 427.0 12 864 374.3 7,005 88 14,938 722.8 15,026 727.0 13 4.3 14 759 29.6 10,002 390.6 10,761 420.2 2,648 84.7 2,634 84.2 5,282 168.9 15 16 6,391 169.4 2,091 55.4 8,482 224.8 17 5,701 2,496 182.1 126.6 55.4 8,197 18 47.9 508 57.4 2,546 9.5 3,054 19 20 57 0.8 0.8 57 290 1,408 16.9 21 3.5 1,119 13.4 22 588 2,557 26.7 3,145 32.9 6.1 23 23,685 217.3 23,685 217.3 24 35,810 289.9 35,810 289.9 25 7,707 55.3 12,897 92.6 20,605 147.9 26 19,223 123.0 20,840 133.3 40,063 256.3 27 22,556 129.1 21,676 124.1 44,232 253.2 28 14,347 73.8 12,684 65.2 27,031 139.0 29 8,782 40.7 8,782 40.7 30 834 3.5 834 3.5 31 32 3,853 13.4 3,853 13.4 33 34 35 36 37 38 39 40 41 42 43 44 45 Total 85,280 1,029.7 183,545 2,712.4 268,826 3,742.0

MOROCCO, November-December 2000

Annex III page 6

Cunene horse mackerel (Trachurus trecae)

SENEGAL - THE GAMBIA - MAURITANIA - MOROCCO, October-December 2000

Length	Number in millions				Biomass in tonnes			
cm	Senegal	Mauritania	Morocco	Total	Senegal	Mauritania	Morocco	Total
5								
6								
7								
8								
9								
10		5.7		5.7		63		63
11		43.4		43.4		633		633
12		379.9		379.9		7,124		7,124
13		754.9	70.3	825.2		17,830	1,452	19,283
14		349.4		349.4		10,224		10,224
15		45.5		45.5		1,625		1,625
16	1.9	16.4		18.3	83	708		791
17	16.3	4.0		20.3	840	206		1,046
18	15.7	9.7	25.8	51.2	957	588	1,372	2,918
19	9.7	323.4	159.1	492.2	692	23,020	9,908	33,620
20	2.5	597.6	1,129.5	1,729.6	211	49,422	81,740	131,372
21	2.0	686.6	2,339.6	3,028.1	186	65,503	195,315	261,004
22	2.0	358.4	1,367.2	1,727.6	213	39,195	130,813	170,221
23	3.1	6.0	397.9	407.1	389	752	43,379	44,520
24	6.8	3.0	294.0	303.8	958	422	36,320	37,700
25	1.2	3.4	127.9	132.4	186	541	17,811	18,539
26	1.9	7.4	102.3	111.6	348	1,316	15,992	17,656
27	1.2	34.3	364.3	399.7	234	6,851	63,633	70,718
28			284.4	284.4			55,308	55,308
29		4.0	316.2	320.2		978	68,189	69,167
30		4.0	156.6	160.5		1,081	37,311	38,392
31		2.4	105.4	107.8		721	27,673	28,394
32		12.8	134.1	146.9		4,220	38,662	42,882
33		2.4	159.7	162.1		867	50,419	51,285
34		7.3	134.1	141.4		2,891	46,248	49,139
35		49.9	54.3	104.2		21,435	20,388	41,823
36		106.5	25.6	132.1		49,735	10,447	60,181
37		150.0	76.7	226.7		75,919	33,987	109,907
38		207.5		207.5		113,652		113,652
39		175.8		175.8		103,983		103,983
40		80.5		80.5		51,322		51,322
41		53.5		53.5		36,679		36,679
42		30.5		30.5		22,502		22,502
43		3.7		3.7		2,946		2,946
44		2.4		2.4		2,032		2,032
45		3.7		3.7		3,371		3,371
46								
47								
48								
49		3.7		3.7		4,341		4,341
50								
Total	64.4	4,529.4	7,824.8	12,418.5	5,298	724,697	986,368	1,716,362

Annex III page 7

Chub mackerel (Scomber japonicus)

MOROCCO - MAURITANIA, November-December 2000

Length	C.Juby-	C.Cantin	C.Bland	-C.Juby	St. Louis-C.Blanc		Total	
cm	tonnes	N millions	tonnes	N millions	tonnes	N millions	tonnes	N millions
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19			86	1.4			86	1.4
20	1,146	15.8	199	2.8			1,345	18.6
21	3,926	47.0	230	2.8			4,156	49.8
22	4,133	43.2	570	6.0			4,702	49.1
23	7,025	64.4					7,025	64.4
24	2,229	18.0	225	1.8			2,454	19.9
25	1,211	8.7	1,269	9.1			2,480	17.8
26	753	4.8	5,246	33.6			5,999	38.4
27	421	2.4	10,534	60.3			10,955	62.7
28	156	0.8	14,315	73.6			14,471	74.4
29	173	0.8	7,630	35.4			7,803	36.2
30	563	2.4	2,096	8.8			2,659	11.2
31	422	1.6	12,327	47.0			12,749	48.6
32			4,547	15.8			4,547	15.8
33			1,627	5.2			1,627	5.2
34			5,959	17.3			5,959	17.3
35			3,589	9.5			3,589	9.5
36			1,052	2.6			1,052	2.6
37								
38								
39								
40								
Total	22,157	210.0	71,501	332.7			93,658	542.7