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By-Catch Species in the Greenland Halibut Spanish (NAFO Divisions 3LM and 3NO): 1991-1994

by

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ABSTRACT

The specific composition of by-catch was studied: 17 species, their presence calculated by depth strata, month and Division, and variations in monthly yield by division in the Spanish Greenland halibut fishery, developed in the NAFO regulated area for the period 1991-1994.

Two groups of species were identified depending on the importance of their presence in catches: the more and less frequent species. The more frequent species were considered those with a value of above 5 kg/h annual yield, i.e. Skate, Roundnose grenadier and Roughhead grenadier, American plaice, Witch flounder and Redfish. Analyzing the data on a monthly basis, however, reveals the presence of higher values of yield than other species. Some species show a stational pattern, such as Grenadiers, Skate and American plaice, particularly in Division 3N. An other hand, other species have increased yields in recent years.

In this fishery, the characteristic species of the demersal fisheries (Skate, American plaice) showed a wider bathymetric distribution than that considered typical in each case.

The transfer of effort southwards (Divs.3NO) in recent years, mainly in the case of small vessels, has meant variation in the composition and relative abundance of by-catch in this fleet.

INTRODUCTION

The Spanish deep waters fishery started in 1990, as described by Junquera and Iglesias (1992) and Cárdenas et al. (1993). The fleet targeting Greenland halibut since 1992 comprises two types of freezer vessels: large and small.

The deep range in this fishery, from 800 m to 1,500 m., generally avoids catching the traditionally exploited demersal species on the platform, such as Cod, American plaice, Yellowtail flounder, Witch flounder, Redfish, etc., although on occasions, concentrations of some of these species have been found in inusual bottoms (Iglesias, et. al., 1994). Furthermore, other species considered to be bottom living, such as Grenadiers, have been caught in significant proportions (Paz and Iglesias, 1994).

The incidence of fishing activity on species other than the target species is a vitally important issue in fish management (Saila, 1983). Incidental catches and discards may comprise a considerable fraction of the biomass caught, besides being a source of mortality not considered in the evaluations.

By-catch interactions have been and continue to be the most frustrating, difficult and time-consuming problems faced in fisheries management areas throughout the world (Hobson and Lenarz, 1977, Mercer, 1982). Although by-catch has always been an integral part of fishing with non-discriminatory gear, efforts to manage by-catch effectively have intensified (Murawski, 1991; Daan and Sissenwine, 1991). Recently, Alverson et al. (1994) have reviewed the importance and the state of this issue.

This paper describes for the first time the presence by depth strata and division of a group of 17 accompanying species, and their seasonal variations in the period 1991-1994. Analysis is also made of the possible trends in yield for these species throughout the study period.

Further studies and statistical analyses are required to determine the influence of various factors, such as the type of vessel, depth, season, year, position, etc., in the catch of the various species, and the possible associations between the species.

MATERIAL AND METHODS

Analysis of Spanish deep-sea fishery sampling data was made. The data used for the study were derived from a directed sea sampling program initiated by the I.E.O. in 1991 (Junquera and Iglesias, op.cit.). This program involved an intense coverage of the two fleets: small and large vessels. Mesh size and target species were the same in both cases.

The main problem in estimating the volume and importance of the by-catch and discards in a deep sea fishery is the difficulty in sampling on board. The fact that some species are not used and are discarded directly may hinder sampling. On other occasions, it is the type of processing which makes it difficult to estimate its importance, e.g. when making fish sausage from two or more species which are processed together (grenadiers and blue antimora).

In our case, the intensity and coverage of sampling was very high. A total of 23,517 hauls were considered on the large vessels, in the period 1991-94, and 9,157 hauls in the small vessels between 1992 and 1994, all performed at depths greater than 800 m. The monthly distribution by division of the hauls sampled in each type of vessels is shown in Tables 1a and 1b, and their distribution by strata, month and division in Table 4.

The species caught in each haul were identified estimating their total weight. Table 2 shows a list of the main fish species.

To estimate the live weight of the processed species, various conversion factors were periodically calculated for each of the species in their different types of processing. For this purpose, 20 different sized individuals were separated out, were weighed prior to and following processing, the conversion factor being calculated as the quotient of both weight values. With the conversion factor values, hauls were estimated based on the weight of each species retained and processed. Table 3 shows the estimated average values and their standard deviation in each type of processing.

When the haul of accompanying species was not large, the total catch of each species was

weighed before being discarded or used. Weight estimate of the hauls of the relatively abundant yet unused accompanying species was less precise. The procedure was as follows: the time taken to be filled, from the discard conveyor belt, one or more boxes of known average weight, then in order to obtain the total discarded weight, this was multiplied by the total operational time of the belt. Furthermore, the proportion of the discarded species, in each box, based on a sample, generally 3 or 4 boxes weighing 40 kg each, and then the total weight of discards was shared out between them. In this manner, an estimate of the weight caught of each species not used in each haul was obtained.

The weights of each species were used to calculate yield (Kg/h) which is the index used.

A depth strata analysis was performed, establishing 8 strata of 100 m in a range between 801 m and over 1,500 m. The presence or absence of each species caught in each stratum per month, division, each year and each fleet were considered.

In the seasonality study, those species with a monthly yield no greater than 5 Kg/h were not considered.

Sampling cod data were not available. This species is not included in the analysis.

RESULTS

Monthly and annual yields of the by catch species in the study period showed a wide range of variation. Two groups of species were distinguished, according to their annual yield: the most abundant with a yield value equal to or greater than 5 kg/h (Figure 1), and the least abundant.

Roundnose grenadier and Roughhead grenadier and Skate were the most important species in both fleets. A marked increase of Skate is apparent in the last two years, with American plaice also increasing in yield in the two fleets last year.

Comparing the yields for the two fleets, some differences appear in the yield species catches composition. Roundnose grenadier was more important in the large vessels and American plaice in the small. Roundnose grenadier is the most important species in the large vessels but its presence decreases in the last year. Witch flounder and Redfish catches were higher in the small vessels.

Presence by month and stratum

The effort pattern was different in both fleets (Tables 4 and 5). In the small vessels, the deep range was minor, in Divs.3LM, only to 1,300 m, and effort was more intensive and deeper in Divs.3NO.

Tables 6 to 22 show the presences by stratum of each species, by month and division throughout the study period, and the range covered by the hauls in each month and stratum is shaded for both fleets.

In the large vessels, Roughhead grenadier, a typically bottom living species, reached the maximum range (>1,500 m), except in Divisions 3L in 1991. Also in the small vessels, this species appeared in all months and strata except one (Table 6). This distribution corresponds with its characterization as deep water species (Scott and Scott, 1988).

Roundnose grenadier made no appearance in the last stratum in 1993 and 1994 in Divs.3LM. Conversely, in Divisions 3NO, its appearance range increased in the same years (Table

7). This species appeared less frequently and more southern distribution than Roughhead grenadier in both fleets.

Common grendier is a benthic species, it has been caught as deep as 2285m (Scott and Scott, 1998). In our data the depth range of common grenadier hauls increased over the years, but in no clearly marked manner, and only in 37% of cases (months) did it reach the last stratum. In the small vessels, its presence decreased in Div.3NO in 1994, despite the intensity of the sampling (Table 8).

Blue antimora is a benthopelagic species, living close the bottom (1600m) (Werner and Musik, 1997). In an experimental longline fishing, its has been taken as deep as 2377m (Scott and Scott, 1988). Appears to decrease its presence and depth range over the study period in both fleets, mainly in 1994 in Divs.3NO (Table 9).

Witch flounder is an offshore, moderatly deep water species, and have cought as deep as 1570m. It is often associated with deep holes and channels between banks (Scott ans Scott, 1988). This species is more abundant in Divsions 3LN (Bowering et al., 1995). In spanish deep water fishery reached greater depths in Div.3L than in 3M, where only the one year class reaches 1,500 metres. In both divisions, the species predominated in the first six months. Further south, its presence and depth range increased over the study period, and its presence was more regular over the year. A similar pattern emerged in the small vessels in Divs.3NO (Table 10).

Skate (Thorny skate mainly). Thorny skate is a benthic species, from coastal waters to about 1000m (Stehman and Bürkel, 1986), after Scott and Scott living at depths of about 18-996m. In this fishery skate reached maximum depth (>1500m) in 50% of cases. In Divs.3NO, its presence and depth increased year by year. In hauls from small vessels, the depth range was broader towards the south (Divs.3NO).

American plaice appeared, almost exclusively, in the first six months in Div.3M in both fleets. In Div.3L, a trend to increase depth was noted, particularly in winter. In Divs.3NO, its presence and depth also increased in 1994 in both fleets. The deep range reported in this paper (until 1500m) is very more large than the habitual range noted in the literature, being the maximum 713m (Scott and Scott, 1988), although recently has been found in continental slope as deep as 1400m in winter (Bowering, 1995).

Clear differences between fleets appear in the distribution of redfish. In the large vessels, redfish appears to be more present to the north (3L) than to the south (3NO). In general terms, its presence was greater in winter and only in Divs.3NO did it appear in the deeper stratum, although it reached 1,500 m in all divisions. In the small vessels, its presence was greater in the first six months to the north (Divs.3LM). No clear seasonal or bathymetric pattern appears in the 3NO divisions. Recently has been found in deep waters (1653m) in div 3L (Bowering, 1995), but generally occurs at depths 350-1100m (Scott and Scott, 1988).

Wolffishes. Anarhichas lupus occurs at depths of 101-350m in Newfoundland area and Anarhichas minor inhabits deep waters os 475 or more, although has been found at 600 m(Scott and Scott, 1988). Wolffishes appeared in the last stratum in Divisions 3L and 3NO. The species was hardly caught in September and October in Div.3M in 1992 and 1993 in the large vessels. In the small vessels, its absence was noted in November and December in Divs.3NO, particularly in the deeper strata.

Eelpouts are benthic species and occurs in litoral zones to considerable depths (Andrishev, 1986). The range of presence of eelpout was very restricted. In Divs.3M, it was less in the last two years. The species only reached 1,500 m on once occasion. Its presence decreased in 1994 in both fleets.

The presence of Atlantic halibut was scarce, this being mainly in Divs.3LM, only on a few occasions venturing below 1,200 m. To the south (3NO), its presence increased in 1993 and 1994. Similar patterns show their catches in two fleets.

Spiny eel appeared at a greater depth in the first six months in Div.3L and, more frequently, in Div.3M. Its maximum depth seems to be approximately 1,300 metres. This corresponds with its benthic habitat in deep water of 125-2500 m (Sulak, 1986). In small vessels, their presence decreased in 1994 for all divisions. In this fleet, presence was smaller in general.

Black dogfish is a deep water shark occurring on or off bottm at depths from 275 to 1600 m (Scott and Scott, 1988). Appeared on more occasions in the first six months in Div.3M and in Divs.3NO. In general, its presence increased over the study period in the large vessels. Its presence in Divs.3LM was less in the small vessels.

Boreal shark is a deepwater species occuring to depths at least 1300m, benthic to pelagic (McEachran and Brangtetter, 1986). Appeared on fewer occasions and in a lesser depth range, its presence was greater to the north (3LM) in the large vessels, and less in the small vessels.

Rockling (Gaidropsarus ensis) in an offshore deepwater species occuring to depths of 400-1600m (Svetovidov, 1986). Reached its greatest depth in Div.3L. And the least in 3M. The species was only caught three times at depths of over 1,500 m in both fleets. In the small vessels, its presence was greater in 1993 in all divisions, almost disappearing in 1994. Clear differences appear between both fleets.

Chimaera. Pelagic to benthopelagic in the upper continental slope area, occasionally to 1000m (Stehmann and Bürkle, 1986). Chimeara had an irregular presence, being the least caught species in the shallower stratum. In general terms, it begins to be present in hauls in the 1001-1100 m hauls.

White hake appeared more in the north zone (3LM) and seldom at depths of over 1,300 m. It is more present in hauls from the large vessels. In the south, it was not abundant in the two fleets. It is a demersal continental-shelf and upper continental-slope species occurring of 200-1000m (Scott and Scott, 1988).

Generally, almost all the species were caught within a very wide range, reaching enormous depths (1,500 m). The species typical of the demersal fisheries (American plaice, wolffish, skate, ...) appeared outside the limits considered as typical in each case. No clear differences are shown between the appearance range of the species considered to be typical of the bottom and those typically demersal.

Some species appeared on more occasions in the north (Divs.3LM), such as White hake, eelpout. Others were more abundant in the south (Divs.3NO), such as black dogfish, chimaera, witch flounder.

Considering only its presence in the haul, no on-going seasonal behaviour was detected in the hauls over the years.

Yield variations in the period

Figures 2 and 8 show monthly yield, by division, throughout the period of the species considered in the two types of vessels. This makes it possible to observe the possible seasonal fluctuations of accessibility for each species in each division.

Roughhead grenadier shows maximum yield in May-June, 1993, in both fleets, and in Division 3N. In the small vessels, a maximum also appeared in the same months in 1994. Roundnose grenadier reaches a maximum in the same season, but in Division 3M in the large vessels it attained a high yield (Figure 2). Skate has its maximum at the close of spring (April-June), and American plaice in March. Both species reached their maximum yields in 1993 and 1994 in Div.3N (Figure 3). In these four species, the large vessels obtained absolute maximum yields.

The maximum yield for redfish occurred in winter in Divisions 3LM, in the large vessels (Figure 4). Wolffish was caught more in winter, in Division 3N, in both fleets (Figure 4). In the small vessels, the maximum corresponded to Div.3M. In previous years large quantities of Wolffishes were caught in August-Setember. A weak shift occurs in Newfounland area to deeper waters in autumn. Mature wolffish migration inshore during spring (Templeman, 1986).

Witch flounder reached maximum yields in spring, in Division 3N, in both fleets. Maxima for white hake occurred in September in Divisions 3LM (Figure 5).

Blue antimora had two peaks: large vessels in 3M in 1994, and small vessels in 30 in 1993, both in November (Figure 6). Eel pout maximum yield occurs in spring. For the large vessels in Division 3L and for the small vessels in Division 3M (Figure 6).

Sharks were more abundant in the catches of the small vessels (Figure 7). The maximum yield occurs in Divisions 3NO for the two shark species.

Halibut yield was very small. Maximum 8 kg/h in Division 3N in 1994 (Figure 8).

Conclusions

At depths of between 800 and 1,500 m, by-catch basically comprised two deep living species (grenadiers and skate). Only 6 species were over 5 kg/h annually: Skate and Roundnose and Roughhead grenadier, American plaice, Witch flounder and Redfish.

American plaice was the only demersal species, characteristic of the platform, which increased its yield significantly in both fleets in the last year. This may indicate a change in the distribution of this species. Redfish also increased its yield, particularly in the small vessels.

Witch flounder and Black dogfish have risen to 5 kg/h in recent years and only in small vessels, the development of catch throughout this period being highly variable.

The differences in composition of the hauls from both fleets may, at least partially, be explained by the difference in effort made by each of these in each division. So, the small vessels intensified their activity on the deep stratum of Divisions 3NO, to the south, in the last year.

A degree of seasonality is observed. In spring, the yield of the more important species

increases, particularly in Divisions 3NO, except in the case of grenadiers which are more abundant in autumn.

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Table 1.- Monthly distribution by Division and year of the sampled hauls. Spanish deep sea fishery. A: Large vessels 1991-94; B: Small vessels1992-94.

		DIV	. 3Ĺ			DIV	. 3M			D۱	/. 3NO			TC	TAL	
Month	1991	1992	1993	1994	1991	1992	1993	1994	1991	1992	1993	1994	1991	1992	1993	1994
Jan	62	178	256	137	24	231	23	71				1	86	409	279	209
Feb	6	468	382	197	15	752	61	202				24	21	1220	443	423
Маг		463	334	52		1021	200	283		3	23	163		1487	557	498
Apr		1006	269	121		498	190	182			28	200		1504	487	503
May		1398	205	191		370	54	163			78	239		1768	337	593
Jun		799	98	110		299	54	112			15	164		1098	167	386
Jul	81	286	2	65	324	79		30		9	149	75	405	374	151	170
Aug	477	320	78	137	695	114	21	30		190	348	97	1172	624	447	259
Sep	432	285	139	118	709	30	22	39	2	129	121	95	1143	444	282	254
Oct	415	201	71	159	763	14	39	70	17	73	129	105	1195	288	239	334
Nov	322	246	191	268	826	24	2	29	1	12	147	53	1149	282	340	350
Dec	229	148	214	230	230	19	17	2			51		459	167	282	232
Total	2024	5798	2239	1785	3586	3451	683	1213	20	416	1089	1213	5630	9665	4011	4211
	Total	1 1 ·		11846	Tota	3M ·		8933	Total	3NO :		2738	Tota	l haul	s:	23517

Total sampled hauls Total towed hours:

23517 124032

Mean tow time :	5h 16 min

	DIV	. 3L		DIV	/. 3M		DIV	/. 3NO		. тс	TAL	
Month	1992	1993	1994	1992	1993	1994	1992	1993	1994	1992	1993	1994
Jan	49	78	33	14	19	32 -				. 63	97	65
Feb	10	339	8	14	108	4		2	119	24	449	131
Mar		414	16		201	13		83	165		698	194
Apr		325	12		179	7		309	185		813	204
May		473	7		58	4		240	185		771	196
Jun		249	33		44	8		252	72		545	113
Jul	100	146	7	40	26	1		342	2	140	514	10
Aug	113	178	20	35	4	1	44	272	90	192	454	111
Sep	139	179	31	22	1	6	282	213	117	443	393	154
Oct	60	59		17			320	406	150	397	465	150
Nov	10	1		6	3	6	250	436	192	266	440	198
Dec	98	89	10	26	24		11	115	94	135	228	104
Total	579	2530	177	174	667	82	907	2670	1371	1660	5867	1630
	Total 31 :		3286	Total 3M:		923	Total 3NO:	•	4948	Total hauls:		9157

Total sampled hauls: Total towed hours:

9157

Mean tow time :

44703 4h 53min

Table 2.- Main fishes species caugth in Spanish deep sea fishery in NAFO Regulatory Area. Years 1991 to 1994.

FAMILIES	SCIENTIFIC NAME	COMMON NAME
Anarhichididae	Anarhichas sp	Wolffish
Chimaeridae	Chimaera sp	Chimera
Escorpenidae	Sebastes sp	Redfish
Gadidae	Gaiodropsarus ensis Urophycis sp	Rockling White hake
Macrouridae	Coryphaenoides rupestris Macrourus berglax Nezumia bairdi	Roundnose grenadier Roughhead grenadier Common grenadier
Moridae	Antimora rostrata	Blue antimora
Notacanthidae	Notacanthus nasus	Spiny eel
Pleuronectidae	Glyptocephalus cynoglossus Hippoglossoides platessoides Hippoglossus hippoglossus	Witch flounder American plaice Atlantic halibut
Rajidae	Raja sp	Skate
Squalidae	Centroscyllium fabricii Somniosus microcephalus	Black dogfish Boreal shark
Zoarcidae	Lycodes sp	Eelpout

Table 3.- Average values of the conversion factors for the various types of dressing stimated on board. n; number of estimations.

	DRESSING	TYPES				
SPECIES	A	В	С	D .	E	F
Anarhichas sp	1.61 ± 0.13 n = 6			3.43 ± 0.38 n = 6		
Sebastes sp			1.96 ± 0.10 n = 24			
Gaidropsarus ensis	1.55 ± 0.11 n = 5					
Urophycis sp	1.66 ± 0.04 n = 4		1.39 ± 0.05 , n = 3			
Coryphaenoides rupestris					3.14±0.15 n = 7	
Macrourus bergiax					3.7 ± 0.52 n = 34	
Antimora rostrata					2.98 ± 0.54 n = 9	
Giyptocephalus cynogiossus	1.39 ± 1.10 n = 24	1.43 ± 0.15 n = 19	1.31 ± 0.04 n = 6			
Hippoglossoides platessoides	1.4 ± 0.07 n = 36	1.53 ± 0.08 n = 22			-	
Raja sp						3.59 ± 0.42 n = 24

CODES OF DRESSING TYPES:

A: Head off, gutted, tail off, unskinned; B: Head off, gutted, tail off, skinned; C: Head off, gutted, with tail, unskinned;

D; Fillet by hand, skinned; E; Fish sausage; F; Wings, skined.

Table 4.- Hauls sampled in the large vessels: 1991-1994. Number by stratum, month, year

	Months	Months
Depth (m)	I II III IV V VI VII VIII IX X XI XII	I II III IV V VI VII VIII IX X XI XII
801-900	799 175 107 13 4 30	103 126 186 223 250 186 124 92 109 45 42 62
901-1000 1001-1100	214 70 46 760 753 46 46 326 133 190 131 64	34 86 111 172 224 131 73 77 31 35 65 22 62 143 112 249 337 188 62 96 64 74 70 18
1101-1200	13 102 107 129 97 28	27, 80, 108 141 234 119 27, 39 38 27 39 10
1201-1300	83C 137/ 22 34 36	510: \$278 540 161 234 148 88 18 (62) 20 30 58
1301-1400	@1s 7 2 2 4 15 53 \ 20	245 =10: 57 ≥ 39: 576. 20: ≤28 ≤3*
1401-1500	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	247 33 6
> 1501	(4)	
	Year 1991	Year 1992 Months
Depth (m)	Months I It III IV V VI VII VIII IX X XI XII	MONTHS
801-900	59 86 51 43 27 37 38 108 41 35 93	35 16 36 22 51 37 31 73 76 59 61 100
901-1000	45 70 63 55 24 14 /27: 119: 131 36: 32	(43) [48] \$102 [414] \$27J [218 [341] 38 [425] 18 [39 [50]
1001-1100	67 68 50 58 64 18 212 39 315 37 34	43 44 49 25 29 23 10 19 13 23 52 48
1101-1200 1201-1300	50 59 76 69 52 17 32	748 291 293 30 331 76 393 5 27 27 48 211 748 29 373 24 37 20 442 2 73 31 38 77
1301-1400	17 41 28 6	52 20 813 85 211 722 11 8 85
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Table 5 .- Hauls sampled in the small vessels : 1992-1994. Number by stratum, month , year and Division.

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Division 3NO

Table 6.- Presence of roughead grenadier in the catches by strata, month, Division and year.

Spanish deep sea fishery: 1991-94. The shaded rectangles show the activity range.

Codes of presence: L = 3L Division; M = 3M Division; O = 3NO Divisions.

						Month	5										•	P	Aonth	5					
Depth (m)	1	II	111	IV	٧	VI	VII	VIII	IX	X	XI	XII		F	11	111	IV	٧	VI	VII	Am	ΙX	X	ΧI	XII
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901-1000							LM	LM	LM	LM	LM	LM		ĻM	LM	SET.	L.M	LM	LM	LMO	LMO	٥	LMO	FWO	5 L2
1001-1100							LM	ĹM	LM	LM.	LMO	M		LM	LM	LM	LM	LM	LM	LMO	LMO	UMO	LMO	LMO	UN
1101-1200							K	ш	LM	Ē	LM	LM		LM	LM	TARO	LW	LM	LM	LMO	LMO	LMO	ÚЮ	LMO	LM
1201-1300							M	LM	LM	Ę	LM	LM			LW	W	W	LM	L.M	LM	цю	LINO	2	ğÇ.	LM
1301-1400								M	M	E	LM	LM		14	LM	LM	LM	LM	LIM	, Le		UN	MO		
1401-1500								1	ĵМ,	14	2 M	LM			M	(N	ГM	LN	M.				MO		
> 1501										M	. M.	u,		M	∮. d	LM.	û L	LM	i.				0	.01	
					Y	ear 19	91											Ye	ear 19	92					
						Month												,	Month	.2					
Depth (m)		11	III	IV	٧.	VI	VII	VIII	IX	Х	ΧI	XII	,	I I	- 11	iti.	IV	٧	VI	VII	VIII	1X	X	Xí	XII
801-900	LM	,L°	TWO		-	ro	*0		-	LMO		ro		LM		LMO	-				_	LMO			81.0
901-1000	LM	LAI	TWO	***	O		; O }			LMO	-					LMO				ПVO					, TH
1001-1100	LM	3	LHO			LMO	A	LMO		LMO		LMO		LM	LMO	LMO	LNO	LIMO	LMO	UIO	LMO	LMO	LMO	TWO	\$ 1.3
1101-1200	LM	LM		LMO	LMO	LMO	LO	MO		LMO	4200	LMO		LM	LMO	LHO	LMO	LHO	LIMO	LINO	LMO	NO	LMO	340	¥.
1201-1300	213	ш	LM	LM.	W	LWO	*	MO	-	LINO	A	ro				LMO				LINO	, ro	LMO		LMO	W
1301-1400	1	1.	LM	LM.	. M (100	, 0	0	107	Ю.	LO	LO.		K.L.	LM	LMO			rwo	.0	_	_	ГNО	~~~	\$1.8
1401-1500	<u> </u>	\ L \	3.12	-	ŽM3	<u> </u>	30	Ō	315	M	01	.0		, C	J.	, O	МО	LMO	įto,	_		_	₹ M {	LM	H.
> 1501	<u></u>	ĬĽ.	215					0	<u></u>	數準		,0;		L	Î.		(0)	0,			<u> </u>		(0)	L	<u> </u>
					Y	ear 19	93											Y	ear 15	94	1				
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										De	epth (m)			II	Ш	IV	٧	VI	VII	VIII	ΙX	х	Χì	XII
										8	01-90	00								LM	LMO	LMO	LMO	LO	LMC
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1001-1100 1101-1200 1201-1300 1301-1400 1401-1500 > 1501

801-900

901-1000 1001-1100

1101-1200

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1301-1400

1401-1500

> 1501

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						LM	LMO	LMO	LMO	LO	LMC
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VI VII VIII IX VIII IX LA LM LMO LMO LMO LO LMO CO, MO LMO LM 0 MO 0 10 TWO TO \$0. 30 (10) LM LMO LMO LMO LMO LMO LO LO CO LMO LM OF C LMO O LMO SL' LO LMO O MO LO LMO LMO LMO LMO LMO LMO LO LO MO LMO UM LINO LINO LINO LO LINO MO LO LINO CO MO LO LM LMO LMO LMO LMO LO LO LO LO LMO M THE THE TO TO THE TO THE OF HE TO L' LM LO LO LO LMO LO LO LO O. CO LO LO LMO LMO 10 0 0 0 10 ∂O: . O O OM O O O) O (O) MO (O) \$05 10 20 40 , o≀ 0 10 10 10 0 10 0 10 0 76- 10:0 O. \$O. O. 87.4 0 0 0 Year 1993 Year 1994

Table 7.- Presence of roundnose grenadier in the catches by strata, month, Division and year.

Spanish deep sea fishery: 1991-94. The shaded rectangles show the activity range.

Codes of presence: L = 3L Division; M = 3M Division; O = 3NO Divisions.

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Depth (m)	- 1	П	IJ	IV	V	VI	VII	VIII	IX	X	ΧI	XII	_1_	II	Ш	IV	٧	VI	VII	VIII	IX	X	ΧI	XII
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901-1000							LM	LM	LM	LM	LM	LM	LM	LM	FWO	LM	LM	LM	LM	LM	O.	LMO	LM	ş L
1001-1100						′	UM	LM	1.84	LN	CWO.	LM	LM	LM	LM	LM	W	LM	LM	LM	LMO	LMO	LMO	Ľ
1101-1200							W	LM	ᄤ	LM	LM	I.M	LM	LM	MO	LM	LM	LM	LM	LM	M	LMO	LMO	u
1201-1300							M	EM.	LM	LM.	LM	LM	LM	LM	LAT	ŭ.	LM	LM	LM	LM	LM	LN.	L	u
1301-1400							M	M	M	ÇQ.	LM	LM	LM	LM	LM	ĹM	W	LM			ĽM.	M		
1401-1500								W 2	M	T.	М	LFA		M	4 H	LM	LM	LM				M.		
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901-1000	E L	*LIT	M LM	ŞL‡ ¦LM	V 201	Month VI Lit	VII 0 0	LMO	LMO LMO	TWO	LO LMO	LO LO	LM	LM	LMO LMO	LMO LMO	V LMO LMO	Aonth VI LO LMO	LO LIMO	LMO LMO	LMO LMO LMO	LMO LMO	140 140	ξĽ ĽĽ
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Table 8.- Presence of common grenadier in the catches by strata, month, Division and year.

Spanish deep sea fishery: 1991-94. The shaded rectangles show the activity range.

Codes of presence: L = 3L Division; M = 3M Division; O = 3NO Divisions.

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Table 9.- Presence of blue antimora in the catches by strata, month, Division and year.

Spanish deep sea fishery: 1991-94. The shaded rectangles show the activity range.

Codes of presence: L = 3L Division; M = 3M Division; O = 3NO Divisions.

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Table 10.- Presence of witch flounder in the catches by strata, month, Division and year. Spanish deep sea fishery: 1991-94. The shaded rectangles show the activity range. Codes of presence; L = 3L Division; M = 3M Division; O = 3NO Divisions.

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Depth (m)	1	U	m	IV	٧	Vi	VII	VIII	ΙX	X	XI	XII	1	#	m	IV	٧	VI	VII	VIII	ŧΧ	X	ΧI	XII
801-900	i L's	LM	LMO	LMO	LMO	ro	O	.0	LMO	ìo.	80	LMO	LM	ĮO,	ro	ro	0.	LO	{	0	50	0	0	ro
901-1000	LM	LM	LMO	LMD	LMO	LO	ß	LO	LO	ĵ٥.	٥,	TWO	1.M	ما	MO	ГWО	, og	70	1	,0,	10	"O	Eo.	ιo
1001-1100	1.36	L.M	LMO	LIMO	LMO	LMO	ro	ΙO	LO	1LO	, 0	LMO	A.M	ro	LMO	LMO	LO	MO	沁越	.0	jo?	20	0	فا ا
1101-1200	۶L,	LM	LMO	LMO	LMO	LO	, 0	o	40	10	ံစ	304	M	w	LO	w	; 0 }	LMC		0	0	0	10	3
201-1300		L	41 P	3		LO	(O	"o :	0	20	0	0		LO	è 0 °	0	LIMO	LO		0	\$M	O	0	0
1301-1400			1	0		0		N. Sec.	o.	0	0	6 0		0	(0)	O	0	0		0	200	٥	CO	
401-1500				,σ					Γ.	1	4.5	18.5		134	7.7	0	0	٥,					*O.	
> 1501									43.00	4 12	200	100			O	, O,	.0%					,o	0	发展

Table 11.- Presence of skate in the catches by strata, month, Division and year.

Spanish deep sea fishery: 1991-94. The shaded rectangles show the activity range.

Codes of presence: L = 3L Division; M = 3M Division; O = 3NO Divisions.

					•	Month	s										P	Ronth	\$		-			
Depth (m)	- 1	t#	M	IV .	٧	VI	VII	VIII	IX	X	ΧI	XII	1	u	Ш	IV	٧	VI	VII	VIII	ŧΧ	X	ΧI	ΧII
801-900							LW	LM	Şi.S	£.	714	M	10	ПM	LMO	LM	剪寶	LM	منا	LMO	:10	LO	ĻMO	LM
901-1000							LN	LM	LM	W	LM	23	LM	ĽΜ	LMO	ı	LM)	ĽM	LMO	LMO	LO	"L"	LMO	Į,
001-1100					\Box		LM	LM	UN	LN	LM	Ł	LM	LIM	LM	Z	LM	Шı	LM	ιo	مر.	9	UNO	_
101-1200			\Box				W,	LM	LM.	LM	L,M	LM	LM	LM	LMO	Ш	LM	LM	Į.M	gr.	ω	Ĺ	LIMO	
201-1300	-						, W	M	LM	LM	M	LM	į Li	LM	LM	ᄣ	LM	LM	ī z	«Ľ	15.1%) L'i	\$L	LM
301-1400							- 57	44	M	² (M)	įΜ,	LM	: L Š	LM	LM	LM	LM	LM	(i) (i)	_	1 00	27		
101-1500									M.	И	M	LM		200	#M	ĽМ	LM	M	_				-	
> 1501		Ī-					\vdash		13	M	, M	14	235			12 L	1 LG	4	_				/ O §	
epth (m)	- (H	Iti	IV	٧	VI	VII	VIII	IX	X	ΧI	XII	1	11	Ш	IV	٧	VI	VII	VIII	IX	X	ΧI	XII
						Month												Vonth						
801-900	LSA	18100		LMO		LO	· · ·	ما	UMO		 -		LM	1 10 .	LNIO		LMO			LO				
		*			*****				^ :-		-	ro	-	-			سننسا			100		LMO		
01-1000	LM	LM		LMO	· · · · · · ·	LMO		7:17:1	rwo	**	LO	LMO	LM	+				-0161			LMO	300	1.00	A
001-1100	LM	LM.	LMO	LMO	rwo	,ro	3.0,1	LMO	LMO	LMO	LO	LMO	,TW	LMO	LMO	LMO	TMO	rwo	LMO	LMO	FWO	LMO	LIKO	> L*
101-1200	L	LM	LHO	LNO	, MO	LMO	503	MO	3 M	LIMO	LO	LMO	LM	LMO	LMO	LMO	LMO	UMO	LMO	LMO	FM?	LMO	, MO	, L
201-1300	ě Dý	1	LM	Ü	LM	LMO	Ο.	jo,	10	: M :	LO	LO	LM	LMO	LMO	LMO	LIMO	LMO	LMO	VI.	LMO	LMO	UMO	7
301-1400	L.	PL4	LM	LM	W	M	0	ψò,		1997	LO	1	LM	LM	LMO	LMO	LMO	UMO	403			LMO	ro	213
401-1500		¥ 3			M		γί,	L.	, `;	M.	<u>;</u> 0,	32	LM	Ĩ1,	10	O	LO,	1				М)L]	Įť,
> 1501		ĮL.	Ľ,					jo,		1		1,9252		1,1,2	Γ	0	.09		Г			Ο,		
					Υ,	ear 19	93					Limit					٧.	tar 19	94			-VaryE		·

					- 1	Mont	15					
Depth (m)	1	11	Ш	IV	٧	VI	VII	VIII	ΙX	X	Xi	XII
801-900							n.	LMO	LO	LMO	10	(Ľ
901-1000							LM	LO	UMO	LO	Ço:	(1)
001-1100			\Box				LM	LMO	LO	LMO	LMO	13.
101-1200			-			1	LM	ш	LO	LMO	MO	議
201-1300		_	_				1	L.	LO	0	(o)	100
301-1400			-									
401-1500							T .					
> 1601				Ì					CO			

Year 1992

				•	Month	21										r	Vionth	S				
- 1	П	Ħ	IV	٧	VI	VII	VIII	ΙX	X	XŁ	XII	ı	u	131	IV	٧	VI	VII	VIII	IX	X	ΧI
L M	LM	UNIO	LMO	LMO	ro	UMO	ĽO	LO	ŧo,	10	LMO	71.	۰٥,	MO	ͺ,ο,	0	ľΟ		LO.	ő	(0)	<u>`</u> و ز
Ĺ	LM	LMO	LMO	LMO	LMO	LMO	LMO	LO.	ú	, o	LMO	Lita	ĹŌ	10	0	٠0.	LMO	14	o	20 }	٠o,	jo;
L,	LNO	LMO	LMO	LMO	LMO	MO	LNO	LO,	ro	20%	LMO	LM	'n	LMO	0	LO	МО	МО	LÖ	103	÷ D	МО
LM	LM	35	UMO	ПWO	LMO	OWC.	2	ro	io	. 0.	MO	M	MO	LMO	:0	· o i	ıo	4	S	١o.	(0	MO
	υ L	T L'A	LO	ю	'n	ПЮ	5	ю	0	0	10		က	(O;	0	LMO	LMO		îo,	(O)	0	10
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			[0]						jo,	30			, o	(31)	(0	10:	10	Г				ÿo)
									186	10	22			10	řo:	10:	25			75.4		¿OÈ

Table 12.- Presence of american plaice in the catches by strata, month, Division and year.

Spanish deep sea fishery: 1991-94. The shaded rectangles show the activity range.

Codes of presence: L = 3L Division; M = 3M Division; O = 3NO Divisions.

					r	Vionth	s ,											,	donth	ıs					
Depth (m)		Ħ	111	IV	٧.	VI	VII	VIII	IX	×	XI	XII		1	tt	Ш	ŧ۷	٧	VI	_VII	VIII	IX	X	ΧI	XII
801-900							200	1	4	, o,	4.3	*****		ζĽ,	\$L.7	LM	LM	# L %	ţ	L.	福建	18	AL,	號	έt.
901-1000							: 52	5 84 :	N.A.	îO:	崇	1		LM	ĽM	2	LM	LM	\$ L \$	(L	黄度	Ľ	湖海	LN	žL,
1001-1100							W.	装改	1	, D	地震	級於		LM	LM	Ŋ	LM	W	LM	LIM	新城	*L*	gr.	ØL.	ELK.
1101-1200							中源	ζ м }		ίο	瓣	器用		LM	LN	T T	LM	LM	***	12	SL.	, L	100	219	1000 1000 1000 1000 1000 1000 1000 100
1201-1300							11.7	5		.0	3.15	A	ļ		, 84)	Ţ,	LM	, i	\$ 9	122	115	/,L#	K.T	35,	
1301-1400							続	1	10.00	12 A	1.7.	双		áL.	Here	10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to	LM	L.				37.	¥.u		
1401-1500								A.		EX.	減熱	300			र जी कर्म		۽ ل يُ	ME.	外道		1		3.2		
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			٠		,	Month	\$												Month	15					
Depth (m)	- 1	II	ш	١V	٧	VI	VII	VШ	ıх	х	ΧI	XII		1	11	UI	IV	٧	VI	VII	VIII	IX	х	XI	XII
801-900	î L	₹L*	LMO	LMO	LO	ς.	0	50 5	100	(W)	LO	LO	1	űL.	LMO	LMO	LO	LO	(LO	i di	0	30	МО	LO	1 13
901-1000	14	LM	LINO	ÛMO	Õ	1	.0	4	*		ξO,) Li	1	ш	LMO	LIMO	LJUIO	LMO	903	曫	0		113	LO	LIM
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1101-1200	177	LM	LO	LO	S	£15	12	(J 4)	1.8	67	• 0]	L.	1	ŽL,	UMO	LO	LO	LMO	\$ 6	極	12:6	嬔	903	ıo	ğL
1201-1300	11	Ž1.	L.	į.	L.		486	Mig.	106	数	64	4		質じ	LO	10	10:	10	強發	源	郭锋	***	87	ýĽ,	SL.
1301-1400	\$ 188	A 13	VL'X			B. W.		被 数 数 数 数	100		W.	建 磁		, L	113	0	100	132	數樣	建			#2		11.
1401-1500		2014	105		1		77	19	25	TETY	100	343		EN PA	\$ L'E	O	ŒĖ.	1			1	Π	Key.	140	34
> 1501		225	SC!							(A)		18 0) Li			0							
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											U	ARG	E VE	SSE	LS										
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										, D	epth :	(m)		1	n	Ш	IV	ν	VI	VII	VIII	IX	X	XI	XU
										1	301-94	00									277	Ten.	1	(o	28
										9	01-10	00								L	きを	数	逐激	0	200
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										11	01-1	200			\vdash			1		ca.	***		25.7		

						Monti	15					
Depth (m)	ı	19	Ш	IV	ν	VI	VII	VIII	IX	X	Χi	XU
801-900							響	272		3.1%	(o	
901-1000				\Box			L	2016	缀	18%	0	2000 第一次
001-1100		Ī				1	LÜ	*	资源	3.8	3	12
101-1200							癒	綫	155	200	32	差為
201-1300		\vdash						報道		10.5		No.
301-1400				\Box								
401-1500							1					
> 1501				Г					532			· -
			•		Υ,	ear 19	992	• • •				

				P	Month	S										•	Month	s				
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<u>,</u> L -	ŽLŽ	LMO	LMO	LMO	LO	110	12 C	磁	歌州	٥.	LO	LM	,0,	ro	LO	0	,0,		.O.	ś'n	搲	110
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L	LMO	LMO	LMO	8	ro	, L'	1	14	190	31-14 14.44	ŞE4	ŽM.	0	LMO	¥o.	LO.	MO	河道	®o‡	9	扩泛	100
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Depth (m) 801-900 901-1000 1001-1100 1101-1200 1201-1300 1301-1400 1401-1500 > 1501

Table 13.- Presence of redfish in the catches by strata, month, Division and year.

Spanish deep sea fishery: 1991-94. The shaded rectangles show the activity range.

Codes of presence: L = 3L Division; M = 3M Division; O = 3NO Divisions.

					N	Month	S										N	Month	is					
Depth (m)	- 1	IJ	111	ΪV	٧	VI	VII	VIII	IX	X	ΧI	XII	1	Ħ	Ш	IV	٧	Vi	VII	VIII	IX	X	Χl	XII
801-900							LM	LM	'n.	and the	LM	M	ŠÚ,	LM	LMO	LM	, L ,	LM	清洁	LM	ļio,	L.	3.3	U#
901-1000								LM	Ę			12.72	LM	ĻM	LM	LM.	LM	LM	2.3	LEA	ro	L.	'n	100
1001-1100								14. A	.0		12.50	2.4	LM	L.Sa	LM	(LM	LM	LM	LM		ák	'L	Ž1.	126
1101-1200							LM	LM			姨	300	CM	LM	LM	LM	LM	U	LMO	LN	19	L	¥1.,	*
201-1300							100	1	44.4	16	1	200	1.16	M	e M	LM	LM	7 10	L	y e	300		14	
301-1400								Section.	1		100	25	100	377	d M	W.	LM	100	70 S		2 9			
401-1500								4.7	3		7	100			M.		猛			\Box		J.		
												談意	53.6	day)		7. Jan.		180				15.		
> 1501						ear 19 Month												ear 19 Month						
	1		III	IV		Month	5	VIII	ix	x	ΧI	XII	ı	ű	111	IV	,	Month	ıs	Vill	ıx	x	ΧI	Xñ
Depth (m)		=	 	IV	v			VIII	IX LMO	X	XI LO	XII LO	l Tim	(I	اا	IV	V V			VIII	ıx	X	XI LO	XII
Pepth (m) 801-900					۰	Month VI	s VII							LINO		riko	ر د د	Month VI	ıs VII LQ	2500 2500	152	X LMO	LO	e L
Pepth (m) 801-900 901-1000	L		Z.	LMO	ro v	VI VI	s VII	04	ro r#0	ΙO	LO	LO		LMO	įω	rwo rwo	ု (၂၀)	Month VI LO LMO	ıs VII LQ	LO	į,o	MO	2	L.
Depth (m) 801-900 901-1000 001-1100	2 5 F	2		LMO	ro ro	VI VI	s VII O,	(04 (0)	ro r#0	10 10	ro	LQ \L	LM	LMO	LMO	LMO LMO	ု (၂၀)	Month VI LO LMO	vii Lo	i LO	ro	MO	2	e L L
Depth (m) 801-900 901-1000 001-1100 101-1200	2 5 F	2		LM LM	7.0 7.0	VI VI	s ∨II .0	0 0 0	ro r#0	9 9 0	5 5 0	LO L LMO	LM LM	LMO LMO	LMO	LMO LMO	LMO LMO	Month VI LO LMO	vii LQ LQ	i LO	LO LMO	MO MO	, 5 5	e L L
Depth (m) 801-900 901-1000 001-1100 101-1200 201-1300	3 3 3	3 3 3 3		730 730	7 TW 10	VI VI	S VIII O O	0 0 0	Го	3 9 0 0 2	5 5 0	LO LA LMO	LM	LMO LMO LMO	LIMO LIMO	LMO LMO	2 0 LMC	VI LO LIMO	VIII	i LO	LO LMO	LMO MO LMO	5 5 5	e L L
> 1501 Depth (m) 801-900 901-1000 1001-1100 1101-1200 1201-1300 1301-1400	L M L M L	그 등 기를 하는	5335	730 730	7 TW 10	Vonth VI	s VII O O	0000	o 등 o 5 등	9999	2 2 2	LO L LMO LMO	LM LM	LMO LMO LMO	LMO LMO	LMO LMO	> Q MC 2 0	VI LO LIMO	VIII LO LO CO	i LO	LO LMO	LMO MO LMO M	5 5 5 5 5	L) L

Year 1992

				1	Month	15										•	Vionth	s					
T	H	Ш	IV	٧	VI	VII	VIII	IX	X	Xi	XII	1	II	Ш	IV	v	VI	VII	VIII	IX	X	ΧI	XII
M.	LM	LMO	LMO	LMO	LO	Ö	LO	LO	0	O	LMO	LM	0	ĽΟ	LΟ	0	LO		LO	LO	0	120°	o'
LM	LM	LMO	LMO	LMO	LMO	0	(o	٥	80	ю,	LMO	M	LO	MO	0	ξO,	0	1,4	o	202	.0	200	猴
LM	LM	LM	LMO	LMO	LO	LO	\$OJA	0	0	.0	LM.	10.1	0	M	0	\$1.3	MO		17.	4.0	0		241
L"	LM	W.	LMO	, L	FWO	0	, O.	0	80	٥.	ğ L ğ	38 2	14%	1 V	#5	Ö	0		0	N.		M.F	37.5
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						\Box			3		3.2				E.	200	7.7			825	25	14	

Depth (m) 801-900

1001-1100 1101-1200 1201-1300 1301-1400 1401-1500 > 1501

Table 14.- Presence of wolffish in the catches by strata, month, Division and year.

Spanish deep sea fishery: 1991-94. The shaded rectangles show the activity range.

Codes of presence: L = 3L Division; M = 3M Division; O = 3NO Divisions.

					V	Vionth	S										- 1	Vionth	15					
Depth (m)	1	11	ĮĮ)	IV	ν	Vł	VII	VIII	IX	X	ΧI	XII	1	Ħ	M	IV	ν	VI	VII	VIII	ΙX	X	ΧI	XII
801-900							LM	LM	LM	.L	LM	100 mg	"L	818	LINO		L.	LM	LO.	LMO	ro	LO	LMO	LM
901-1000							LM	LM	LM.	Ш	LM	LM	LM	LM	LM	LM	LM	LM	LMO	LMO	LO	LMO	LMO	¥ .
1001-1100							LM	LW	LM	LM	LMO	LM	LM	LM	LM	ĹM	LM	LM	LMO	LMO	LO	ю	UNO	1.00
1101-1200							LM	LM	LIM	LM	LM	LM	Ĭ.W.	LM	LM	LM	LM	Us.	UMO	LMO	LO	LO	LMC	2N
1201-1300							M	M	M	UM.	LM	LM	M	LM	LM	LM	LM	LM	LMO	LO	8 C S	(L)	, L	. M
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Year 1993

Year 1994

Table 15.- Presence of eelpout in the catches by strata, month, Division and year. Spanish deep sea fishery: 1991-94. The shaded rectangles show the activity range. Codes of presence: L = 3L Division; M = 3M Division; O = 3NO Divisions.

Months

Year 1993

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LARGE VESSELS

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901-1000

1001-1100

1101-1200

1201-1300

1301-1400 1401-1500 LM LMO LMO O L UNO Ļ LM LM LMO LO 0 LM LMO LMO LO £ 3 L LO LO. LO

Year 1994

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Year 1993 Year 1994

Table 16.- Presence of atlantic halibut in the catches by strata, month, Division and year.

Spanish deep sea fishery: 1991-94. The shaded rectangles show the activity range.

Codes of presence: L = 3L Division; M = 3M Division; O = 3NO Divisions.

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Year 1993

Year 1994

Table 17.- Presence of spiny eel in the catches by strata, month, Division and year.

Spanish deep sea fishery: 1991-94. The shaded rectangles show the activity range.

Codes of presence: L = 3L Division; M = 3M Division; O = 3NO Divisions.

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SMALL VESSELS

Table 18.- Presence of black dogfish in the catches by strata, month, Division and year. Spanish deep sea fishery. 1991-94. The shaded rectangles show the activity range. Codes of presence: L = 3L Division; M = 3MDivision; O = 3NO Divisions.

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101-1200	L				<u></u>		變	M;	M	ŞΜ.	M	學等	Ĺ		Ů.	ПМO	LM	LM	ĹM,	(1)		3/4	1	7	2
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301-1400	<u> </u>						KIN.	MANA ALA	(地震) (海祖)	製業	M	1	7 H	à a	М	LM	LM	LM	114	摆敲		173 H	1747		
401-1500		_		<u> </u>	<u>.</u>		<u> </u>		WE'S	2.7	West	ž Q		3	4	ĮMĮ	LM	¥	M				爲		
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Year 1993

Table 19.- Presence of boreal shark in the catches by strata, month, Division and year.

Spanish deep sea fishery: 1991-94. The shaded rectangles show the activity range.

Codes of presence: L = 3L division; M = 3M division; O = 3NO divisions.

I-1000		<u>"</u>	w	fV	V	VI	VII	VIII																
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1-1300							3	, 0	MO	MO	MO	1	8.73	L	LM	LM	LM	LM	ğı.			4		39
-1400									3	解釋	MO	测等	ŽL)	L'	M	LM	1	M	90 iz		支票	1.130	·	
-1500									MO	MO				神	M	e jako k Ar jako	M	M						Γ
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Table 20.- Presence of rockling in the catches by strata, month, Division and year.

Spanish deep sea fishery: 1991-94. The shaded rectangles show the activity range.

Codes of presence: L = 3L Division; M = 3M Division; O = 3NO Divisions.

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Table 21.- Presence of chimaera in the catches by strata, month, Division and year.

Spanish deep sea fishery: 1991-94. The shaded rectangles show the activity range.

Codes of presence: L = 3L Division; M = 3M Division; O = 3NO Divisions.

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Year 1994

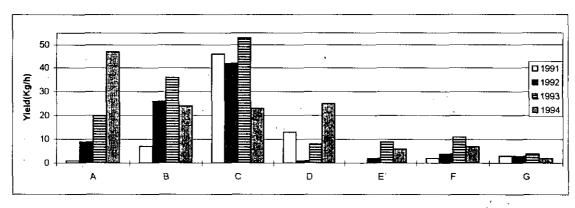
Table 22.- Presence of white hake in the catches by strata, month, Division and year.

Spanish deep sea fishery; 1991-94. The shaded rectangles show the activity range.

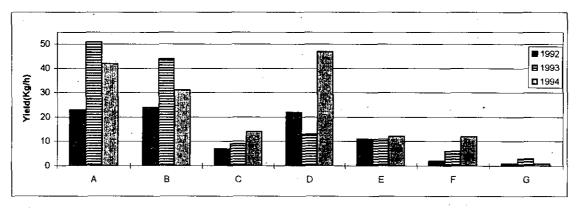
Codes of presence: L = 3L Division; M = 3M Division; O = 3NO Divisions.

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					Month										•			donth						
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901-1000	<u> </u>	<u> </u>			L.	1.75	Ų	15	LM] . L.	<u>.</u> t.	}	LM	LM	LHO	LM	LM	LM	31,	LMO	Ľ	"O.,	Ţ,	ş.
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Year 1994



Large Vessels, 1991-1994



Small vessels. 1992-1994

A= Skate; B= Roughead grenadier; C= Roundnose grenadier; D=American plaice; E: Witch flounder; F= Redfish; G= Blue antimora

Figure 1.- Annual yield (Kg/h) for main by-catch species. Large vessels and small vessels:1991-94.

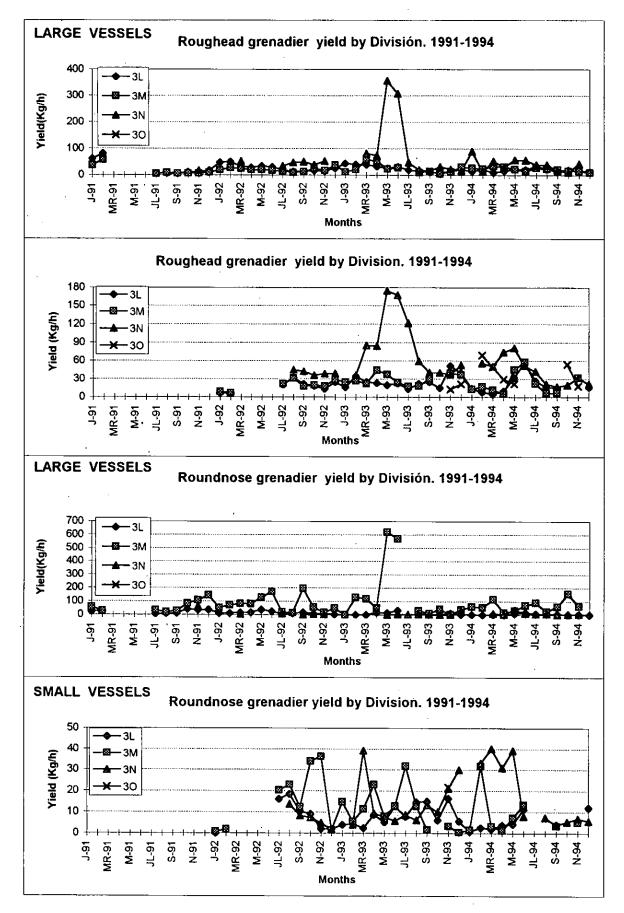


Figure 2 .- Roughead grenadier and roundnose grenadier yield (Kg/h) by month and Division in large vessels and small vessels:1991-1994.

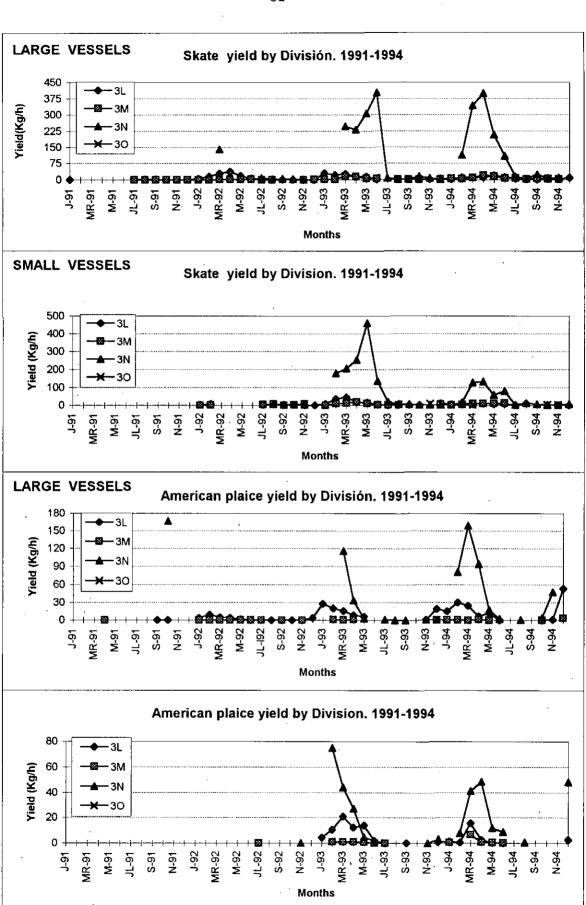


Figure 3 .- Skate and american plaice yield (Kg/h) by month and Division in large vessels and small vessels:1991-1994.

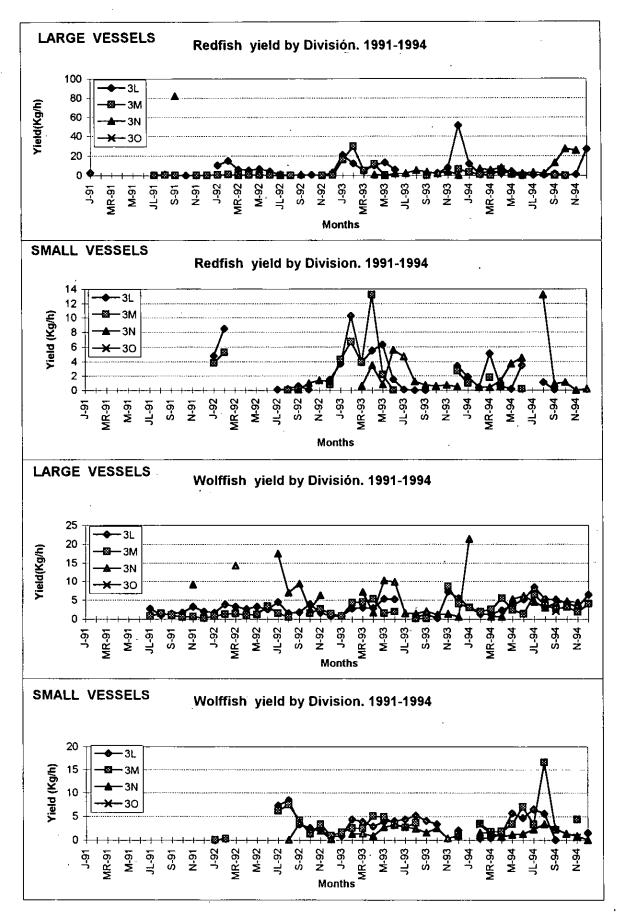


Figure 4 .- Redfish and wolffish yield (Kg/h) by month and Division in large vessels and small vessels:1991-1994.

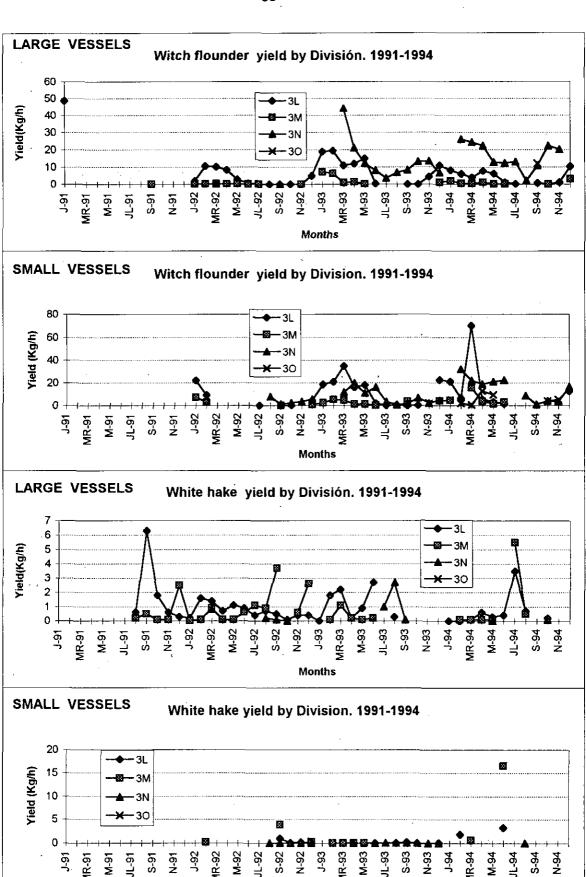


Figure 5 .- Witch flounder and white hake yield (Kg/h) by month and Division in large vessels and small vessels:1991-1994.

Months

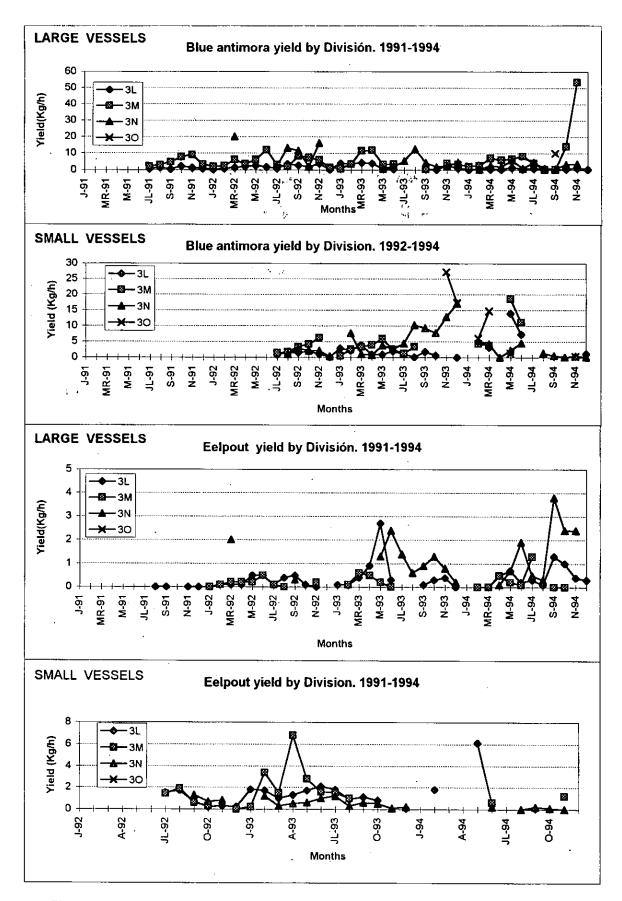


Figure 6 .- Blue antimora and eelpout yield (Kg/h) by month and Division in large vessels and small vessels:1991-1994.

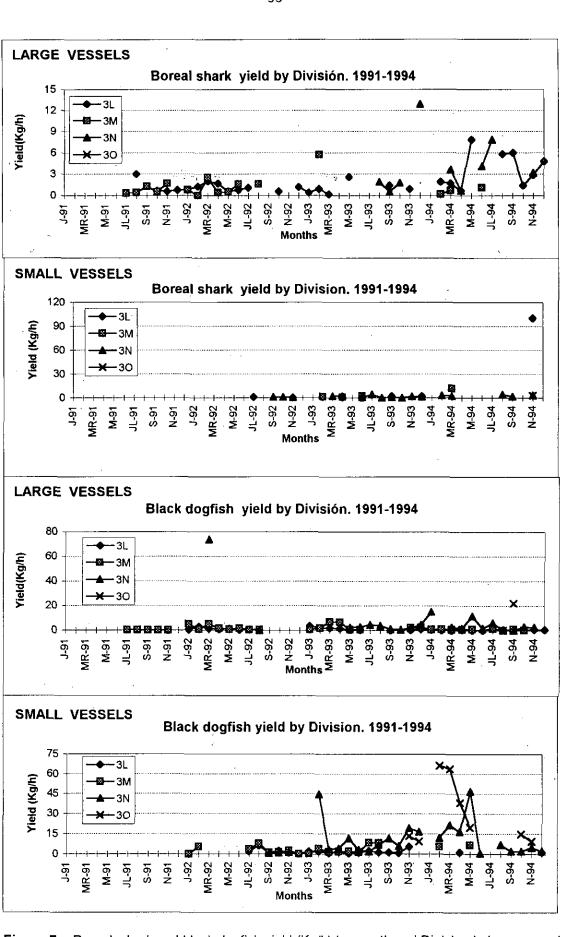


Figure 7 .- Boreal shark and black dogfish yield (Kg/h) by month and Division in large vessels and small vessels:1991-1994.

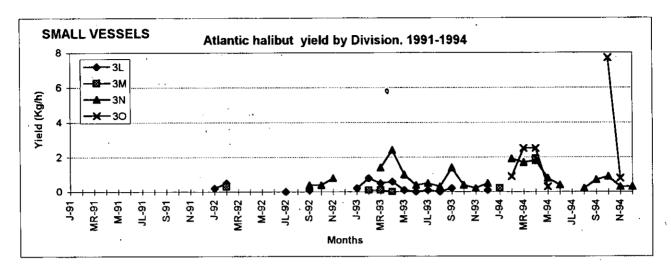


Figure 8 .- Atlantic halibut yield (Kg/h) by month and Division in small vessels:1991-1994.