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PORTUGUESE RESEARCH REPORT FOR 2007

by

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A. Status of the fisheries

In 2007, the Portuguese nominal catches proceeding from NAFO Regulatory Sub Area 3 have reached a similar value (11 786 ton) that recorded since 2004 (Table 1-A). Nominal catches increased continuously from 2000 to 2003, when they peak at 21 300 ton, but declined sharply afterwards and become stable around 11 500-12 500 ton (Table I-B).

In 2007, the overall fishing effort decreased both in fishing days (-17%) and fishing hours (-26.5%). In Div. 3N the fishing effort increased in fishing days (53%). But in all others divisions the fishing effort decreased strongly: in Div. 3L fell 29% in fishing days (like in 2006) and in Div. 3M and 3O decreased about 20%. The decrease in the fishing effort, with the general stability of the catches, suggests a general increment in the catch rate of this fishery during 2007.

Total catches (Table I-A) remains stable. Roughhead grenadier decreased strongly (-76%), that reached values of catches never observed. White hake also show an important drop (-45%). The catch of skates remains stable. An important increase was observed in the by-catch of cod and yellowtail flounder (+45% and +44%, respectively), but was kept at low levels. By-catch of American plaice (440 ton) also shows an increase (+22%). The by-catch of witch flounder (122 ton) was kept in 2007 within their recent level.

Redfish continues to be by far the most important species in the Portuguese commercial catches from Sub Area 3, representing on recent years about 62% of the overall catch. The redfish catches (and their relative weight) remain stable in Divisions 3M and 3O, with very small decreases (around -6%). Div. 3O continues to be the most important ground for the redfish fishery, with 83.5% of the catches on this division and with 66% of the total catches in NAFO Subarea 3.

In Div. 3L, the Greenland halibut and roughhead grenadier continued to represent the bulk of the catches (above 90% in 2005-2007). In Div. 3N the relative weight of these two species has been declining from 76% in 1998 to 35% in 2004-2005, 11% in 2006 and fall to 4% in 2007. In this division, the skates continue to be the most important fishery, with 70-60% of total catch in the last two years (37% in 2005). However, the catches of American plaice and yellowtail flounder are doubled or more, reaching 35% of total catch in Div. 3N.

B. Portuguese Annual Sampling Program

1. Catch and effort sampling.

Effort and CPUE data for 2007 Portuguese trawl fishery on the NAFO Regulatory Area were obtained through the revision of skipper logbooks from two trawlers, kindly supplied by its owners. All the information (round weight of the catch by species, fishing effort, positions and depths) has been recorded on a tow-by-tow basis. The vessel

conversion factors were used to convert its processed landings in catches. Effort data obtained through the revision of the 2007 logbooks available were processed in order to convert the 2007 Portuguese effort, reported in fishing days, on the 2007 Portuguese STATLANT 21-B, into fishing hours (Table II-A/B).

The daily catch and effort data from the logbooks were used to estimate the directed effort and CPUE for each of the target species/stock, as well as the main by-catch species and depth range of the different fisheries, on a monthly basis. The majority of the fishing effort was directed towards Greenland halibut, redfish and skates.

Following the September 1996 recommendation of the NAFO Scientific Council as regards the availability of witch flounder fishery data, a column with the by-catch of this species on the Greenland halibut fishery is included in Table III. Data regarding directed effort and catch rates are presented in Table III to IV-B and Fig. 1.

The Greenland halibut cpue series was updated with the 2007 observed CPUEs, this update only included one vessel in 2006 and 2007 because we have not yet included the new vessel (new vessel with new gear). The additive model (Ávila de Melo and Alpoim, 1995), was upgraded in 1998 (Alpoim *et al*., 1998) and used like in previous years to standardise the observed CPUEs. From January 1988 till April 1995 each monthly observed CPUE of this series was previously corrected for 130mm mesh size (Ávila de Melo and Alpoim, 1996). In this analysis, any observation corresponding to a month and a trawler with less than 10 hours of directed effort was rejected. The CPUEs are presented in Tables IV and Fig. 1, with the associated standard errors (+/- 2 standard errors in the Figures) and coefficients of variation.

1.1. Comments on catch and effort data (based on the vessels sampled)

1.1.1. Greenland halibut in Div. 3L, 3M, 3N and 3O

In Div. 3L catch rates declined prior to the boom of the deep-water fishery (Table IV-A, Fig. 1). However, it is from 1990 to 1991, i.e. from the first to the second year of this new fishery in the Regulatory Area, that CPUEs fell by half. Between 1991 and 1994 catch rates remained stable at a low level. Since then, catch rates gradually increased, reaching an upper level in 1999-2000. Catch rate declined in 2001 and remained stable at that lower level in 2002 and 2003. In 2004 the catch rate decline again, reaching the lowest value since 1994. However since 2005 the Greenland halibut catch rate in Div. 3L recovered and in 2007 reached a value never observed (0.501 ton/h) since the beginning of this series.

For all Div.3LMNO combined (Table IV-A, Fig. 1) the observed catch rates series follows the Div. 3L pattern, since this is the division of Sub Area 3 with the highest concentration of Greenland halibut fishing effort.

2. Biological Sampling

In 2007 biological sampling was obtained from two stern trawlers fishing in Div. 3L, 3M, 3N and 3O during all the year. Apart from species under moratoria, a priority to be sampled whenever they appear in the hauls, biological sampling was conducted for the two most abundant species in each haul, following the NAFO sampling recommendations.

Greenland halibut, redfish (*S. mentella),* American plaice, witch flounder, thorny skate and roughhead grenadier were sampled in Div. 3L, 3M, 3N and 3O (Table V). Cod were sampled in Div. 3M, 3N and 3O. Spinytail skate were sampled in Div. 3L, 3M and 3N. Redfish (*S. marinus*) were sampled only in Div. 3M. Yellowtail flounder were sampled only in Div. 3N. White hake and monkfish were sampled only in Div. 3O.

Since 1996, all commercial information is representative of the catch as a whole, although sampling continues to be carried out by sex with the exception of cod, white hake, Atlantic halibut, skates and monkfish. Mean length and weight at age are the mean of mean lengths and weights at age by sex, weighted by the abundance in the sampled catches of males and females at each age. For all species mean weight at age and mean weight in the catch are derived from the length-weight relationships calculated from the commercial sampling in 2007 (Table VI). For some stocks such as 3M Cod, 3M American plaice, 3O White hake the length-weight relationships used were those from the previous commercial sampling (Vargas, 2005; Vargas, 2007), due to the small length/weight sampling in 2007.

2.1. Length composition of the 2007 skate net trawl fishery (280mm codend mesh size).

Some sets in Div. 3N and 3O were made with a skate trawl net with 280mm mesh size in the codend, representing 1% in Div.3N and 1% in Div 3O of the total effort sampled. In these sets the main species were sampled. Length frequency, mean length and mean weight in the catch are presented for cod (Tab. VIII-B, IX-B; Fig. 3B, 4B), redfish - *S. mentella* (Tab XII-B, Fig. 7B), American plaice (Tab. XVII-B, XVIII-B; Fig. 12B, 13B), yellowtail flounder (Tab. XIX-B, Fig. 14B), witch flounder (Tab. XXX-B, XXXI-B; Fig. 25B, 26B), white hake (Table XXXII-B, Fig. 27B) and thorny skate (Tab. XXXV-B, XXXVI-B, Fig. 30B, 31B). The size of these catches within the overall sampled catch in Div. 3N is about 8% for cod, 24% for American plaice, 12% for redfish (*S. mentella*), 7% for yellowtail flounder, 43% for witch flounder and 27% for thorny skate. In Div. 3O is about 5% for cod, 31% for American plaice, 15% for witch flounder, 10% for white hake and 52% for thorny skate.

2.2. Length composition of the 2007 trawl fishery (130mm codend mesh size).

2.2.1. Cod Div. 3M

Information on length composition of the cod by-catch in Div. 3M is available from February to May (Table VII, Fig. 2), from 240m to 481m depth.

Lengths between 48cm and 72cm dominated the catch, with a modal class at 63cm (mean length and weight of 62cm and 2747g).

2.2.2. Cod Div. 3N

Information on length composition of the cod by-catch in Div. 3N is available from February to May, except March (Table VIII-A, Fig. 3A), from 59m to 548m depth.

Lengths between 36cm and 45cm dominated the catch, with a clear modal class at 39cm (mean length and weight of 44cm and 985g).

2.2.3. Cod Div. 3O

Information on length composition of the cod by-catch in Div. 3O is available from February to May, except March (Table IX-A, Fig. 4A), from 94m to 531m depth.

Lengths between 45cm and 60cm dominated the catch, with a clear modal class at 51cm (mean length and weight of 52cm and 1551g).

2.2.4. Redfish (*S. mentella)* **Div. 3L**

Information on length composition of the redfish (*S. mentella)* trawl by-catch in Div. 3L is available for January and April (Table X, Fig. 5), from 727m to 1028m depth.

Lengths between 28cm and 34cm dominated the catch, with a modal class at 32cm (mean length and weight of 29cm and 387g).

2.2.5. Redfish (*S. mentella*) **Div. 3M**

Information on length composition of the redfish (*S. mentella)* trawl catch in Div. 3M is available from January to May (Table XI, Fig. 6), from 227m to 865m depth.

Lengths between 26cm and 33cm dominated the catch, with a modal class at 30cm (mean length and weight of 29cm and 360g).

2.2.6. Redfish (*S. mentella*) **Div. 3N**

Information on length composition of the redfish (*S. mentella)* trawl by-catch in Div. 3N is available from February to May, except March (Table XII-A, Fig. 7A), from 247m to 548m depth.

Lengths between 20cm and 23cm dominated the catch, with a modal class at 21cm (mean length and weight of 24cm and 214g).

2.2.7. Redfish (*S. mentella*) **Div. 3O**

Information on length composition of the redfish (*S. mentella)* trawl catch in Div. 3O is available from February to May, except March and from October to December (Table XIII, Fig. 8), from 129m to 664m depth.

Lengths between 21cm and 28cm dominated the catch, with a modal class at 23cm (mean length and weight of 25 cm and 220g).

2.2.8. Redfish (*S. marinus*) **Div. 3M**

Information on length composition of the redfish (*S. marinus)* trawl by-catch in Div. 3M is available only for February and March (Table XIV, Fig. 9), from 234m to 1008m depth.

Lengths between 27cm and 32cm dominated the catch, with a clear modal class at 30cm (mean length and weight of 29 cm and 386g).

2.2.9. American plaice Div. 3L

Information on length composition of the American plaice by-catch in Div. 3L is available only for January and March, (Table XV, Fig. 10), from 810m to 1046m depth.

Despite the small sampling (2 samples, 152 fish measured), we can conclude that lengths between 30cm and 36cm dominated the catch, with modal classes at 32cm, 34cm and 36cm (mean length and weight of 36cm and 434g).

2.2.10. American plaice Div. 3M

Information on length composition of the American plaice by-catch in Div. 3M is available only for March and May (Table XVI, Fig. 11), from 349m to 518m.

Despite the small sampling (3 samples, 125 fish measured), we can conclude that lengths between 32cm and 42cm dominated the catch, with a modal class at 36cm (mean length and weight of 38cm and 562g).

2.2.11. American plaice Div. 3N

Information on length composition of the American plaice by-catch in Div. 3N is available from February to May, except March and from October to December (Table XVII-A, Fig. 12A), from 48m to 938m depth.

Lengths between 36cm and 42cm (and at 32cm) dominated the catch, with a clear modal class at 40cm (mean length and weight of 40cm and 674g).

2.2.12. American plaice Div. 3O

Information on length composition of the American plaice by-catch in Div. 3O is available from February to May, except March and for November and December (Table XVIII-A, Fig. 13A), from 50m to 455m depth.

Lengths between 32cm and 42cm dominated the catch, with a clear modal class at 38cm (mean length and weight of 39cm and 592g).

2.2.13. Yellowtail flounder Div. 3N

Information on length composition of the yellowtail flounder catches in Div. 3N is available for April, May and November (Table XIX-A, Fig. 14A), from 44m to 72m depth.

Lengths between 34cm and 40cm dominated the catch, with modal classes at 34cm and 36cm (mean length and weight of 37cm and 527g).

2.2.14. Greenland halibut Div. 3L

Information on length composition of the Greenland halibut catches in Div. 3L is available from January to April (Table XX, Fig. 15), from 674m to 1516m depth

Lengths between 40cm and 48cm dominated the catch, with modal classes at 42cm, 44cm and 46cm (mean length and weight of 45cm and 901g).

2.2.15. Greenland halibut Div. 3M

Information on length composition of the Greenland halibut catches in Div. 3M is available from January to April (Table XXI, Fig. 16), from 320m to 1641m depth.

Lengths between 40cm and 48cm dominated the catch, with modal classes at 42cm and 44cm (mean length and weight of 45cm and 853g).

2.2.16. Greenland halibut Div. 3N

Information on length composition of the Greenland halibut catches in Div. 3N is available only for February and April (Table XXII, Fig. 17) from 737m to 938m depth.

Despite the small sampling (3 samples, 286 fish measured), we can conclude that lengths between 40cm and 50cm dominated the catch, with a clear modal class at 46cm (mean length and weight of 47cm and 971g).

2.2.17. Greenland halibut Div. 3O

Information on length composition of the Greenland halibut catches in Div. 3O is available only for April and May (Table XXIII, Fig. 18), from 680m to 1156m depth.

Despite the small sampling (2 samples, 221 fish measured), we can conclude that lengths between 38cm and 44cm dominated the catch, with a clear modal class at 42cm (mean length and weight of 43cm and 735g).

2.2.18. Roughhead grenadier Div. 3L

Information on length composition of the roughhead grenadier catches in Div. 3L is available from January to April (Table XXIV, Fig. 19), from 674m to 1540m depth.

Anal fin lengths between 10cm and 15cm dominated the catch, with a modal class at 12cm (mean length and weight of 14cm and 460g).

2.2.19. Roughhead grenadier Div. 3M

Information on length composition of the roughhead grenadier catches in Div. 3M is available from February to April (Table XXV, Fig. 20), from 320m to 1305m depth.

Anal fin lengths between 10cm and 14cm dominated the catch, with a two clear modal classes at 12cm and 13cm (mean length and weight of 13cm and 398g).

2.2.20. Roughhead grenadier Div. 3N

Information on length composition of the roughhead grenadier catches in Div. 3N is available only for February (Table XXVI, Fig. 21), from 878m to 927m depth.

Because sampling data is based on a very small number of observations (1 sample, 64 fish measured), there are no comments on anal fin lengths that dominated the catches (mean length and weight of 18cm and 990g).

2.2.21. Roughhead grenadier Div. 3O

Information on length composition of the roughhead grenadier catches in Div. 3O is available only for May (Table XXVII, Fig. 22), from 680m to 1082m depth.

Because sampling data is based on a small number of observations (1 sample, 167 fish measured), there are no comments on anal fin lengths that dominated the catches (mean length and weight of 13cm and 481g).

2.2.22. Witch flounder Div. 3L

Information on length composition of the witch flounder catches in Div. 3L is available from January to April (Table XXVIII, Fig. 23), from 853m to 1475m depth.

Lengths between 32cm and 42cm dominated the catch, with two modal classes at 36cm and 38cm (mean length and weight of 39cm and 604g).

2.2.23. Witch flounder Div. 3M

Information on length composition of the witch flounder catches in Div. 3M is available from January to April (Table XXIX, Fig. 24), from 450m to 1641m depth.

Lengths between 34cm and 42cm dominated the catch, with a modal class at 38cm (mean length and weight of 40cm and 635g).

2.2.24. Witch flounder Div. 3N

Information on length composition of the witch flounder catches in Div. 3N is available only for February and October (Table XXX-A, Fig. 25A), from 57m to 927m depth.

Despite the very small sampling (2 samples, 115 fish measured), we can conclude that lengths between 34cm and 40cm dominated the catch, with a clear modal class at 34cm (mean length and weight of 37cm and 517g).

2.2.25. Witch flounder Div. 3O

Information on length composition of the witch flounder catches in Div. 3O is available from February to May (except March) and from October to December (Table XXXI-A, Fig. 26A), from 71m to 1156m depth.

Lengths between 34cm and 40cm dominated the catch, with a modal class at 38cm (mean length and weight of 39cm and 585g).

2.2.26. White hake Div. 3O

Information on length composition of the white hake catches in Div. 3O is available from February to May (except March) (Table XXXII-A, Fig. 27A), from 113m to 1011m depth.

Despite the very small sampling (5 samples, 230 fish measured), we can conclude that lengths between 38cm and 48cm, and at 50cm dominated the catch, with two clear modal classes at 40cm and 41cm (mean length and weight of 45cm and 1117g).

2.2.27. Thorny skate Div. 3L

Information on length composition of the thorny skate catches in Div. 3L is available only for March (Table XXXIII, Fig. 28), from 1046m to 1347m depth.

Because sampling data is based on a very small number of observations (2 samples, 30 fish measured), there are no comments about class abundance but the lengths range was from 29cm to 46 cm (mean length of 40cm).

2.2.28. Thorny skate Div. 3M

Information on length composition of the thorny skate catches in Div. 3M is available from February to May (Table XXXIV, Fig. 29), from 362m to 1211m depth.

Despite the small sampling (10 samples, 214 fish measured), we can conclude that lengths between 36cm and 38cm, and at 40cm and 41cm dominated the catch, with a clear modal class at 40cm (mean length of 38cm).

2.2.29. Thorny skate Div. 3N

Information on length composition of the thorny skate catches in Div. 3N is available only for April (Table XXXV-A, Fig. 30A), from 48m to 905m depth.

Because sampling data is based on a very small number of observations (2 samples, 63 fish measured), there are no comments about class abundance (mean length of 39cm).

2.2.30. Thorny skate Div. 3O

Information on length composition of the thorny skate catches in Div. 3O is available only for April (Table XXXVI-A, Fig. 31A), from 113m to 1011m depth.

Because sampling data is based on a very small number of observations (2 samples, 84 fish measured), there are no comments about class abundance (mean length of 38cm).

2.2.31. Spinytail skate Div. 3L

Information on length composition of the spinytail skate catches in Div. 3L is available from February to April (Table XXXVII, Fig. 32), from 810m to 1540m depth.

Because sampling data is based on a small number of observations (16 samples, 102 fish measured) and due the large range of lengths showed (23cm to 76m), there are no comments about class abundance (mean length of 55cm).

2.2.32. Spinytail skate Div. 3M

Information on length composition of the spinytail skate catches in Div. 3M is available from February to April (Table XXXVIII, Fig. 33), from 589m to 1305m depth.

Because sampling data is based on a small number of observations (7 samples, 102 fish measured) and due the large range of lengths showed (26cm to 77cm), there are no comments about class abundance (mean length of 52cm).

2.2.33. Spinytail skate Div. 3N

Information on length composition of the spinytail skate catches in Div. 3N is available only for April (Table XXXIX, no figure), from 847m to 905m depth.

Because sampling data is based on a very small number of observations (1 sample, 12 fish measured), there are no comments about class abundance but the lengths range was from 37cm to 71cm (mean length of 56cm).

2.2.34. Monkfish Div. 3O

Information on length composition of the monkfish catches in Div. 3O is available only for February (Table XL, no figure), from 290m to 391m depth.

Because sampling data is based on a very small number of observations (1 sample, 14 fish measured), there are no comments about class abundance but the lengths range was from 43cm to 65 cm (mean length of 54cm).

3. Acknowledgements

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TABLE I-A : PORTUGUESE NOMINAL TRAWL CATCHES (mt) IN NAFO AREA, 2007.

	DIVISION								DIV. 3LMNO	TOTAL
SPECIES	1F	2H	2J	3K	3L	3M	3N	3O	2007	2007
Cod						57.6	77.6	120.3	255.5	255.5
Redfish	298.7	2.9	174.9	49.0	19.6	2420.9	1.1	4875.3	7316.9	7784.5
American plaice					24.3	30.4	156.7	228.8	440.2	440.2
Yellowtail flounder					0.3	0.4	215.7	64.3	280.7	280.7
Witch flounder					5.5	25.8	6.3	84.7	122.3	122.3
Greenland halibut					1642.8	305.0	42.4	27.7	2017.9	2017.9
Atlantic halibut					0.8	17.4	2.8	14.1	35.1	35.1
Roughhead grenadier (1)					25.4	5.7	1.5	0.1	32.7	32.7
Roundnose grenadier					22.3	6.2	7.6	0.3	36.4	36.4
Anarhichas spp.						5.6	4.8	6.0	16.4	16.4
Hadocck							0.3	1.5	1.8	1.8
Pollock										
White hake (2)						9.1	2.8	49.5	61.4	61.4
Red hake					1.1	1.1			2.2	2.2
Capelin										
Skates					17.5	7.4	720.6	348.1	1093.6	1093.6
Monkfish							1.9	20.0	21.9	21.9
Squid										
Shrimp										
Unidentified					0.1	0.1		1.4	1.6	1.6
TOTAL	298.7	2.9	174.9	49.0	1759.7	2892.7	1242.1	5842.1	11736.6	12204.2

(1) Reported as Roundnose grenadier in years before.
(2) Reported as Red hake in years before

TABLE I - B: PORTUGUESE NOMINAL TRAWL CATCHES (mt) IN NAFO DIV. 3LMNO.

SPECIES / YEAR	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998
Cod	256	177	104	280	677	488	357	193	327	549
Redfish	7317	7802	7337	5969	7710	6344	5324	5743	6081	2368
American plaice	440	361	372	512	901	631	633	402	719	357
Yellowtail flounder	281	194	188	69	287	122	351	153	426	85
Witch flounder	122	137	150	588	501	433	579	228	508	381
Greenland halibut	2018	2327	2256	1881	4611	4319	5026	4769	3995	3242
Atlantic halibut	35	30	19	60	89	46	44	29	51	30
Roughhead grenadier(1)	33	138	263	380	292	508	610	396	1299	1089
Roundnose grenadier	36									
Anarhichas spp.	16	30	31	46	106	87	141	61	549	140
Hadocck	2	0	6	23	131	78	23	13	10	6
Pollock				4	115					
White hake (2)	61	96	156	1265	3919	1969	273	41	77	18
Red hake	2	1	18	12	2					
Capelin										
Skates	1094	1003	575	1543	1816	1361	880	666	2168	1105
Monkfish	22	25	5	74	156					
Squid		18		11						1
Shrimp				50		15	420	289	227	203
Unidentified	2	1	3	11	13	43	41	3	117	40
TOTAL	11737	12341	11483	12776	21324	16443	14701	12985	16554	9614

TABLE I - B: cont.

SPECIES / YEAR	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988
Cod	1546	1318	1353	2636	3651	5984	13357	15138	24129	12931
Redfish	1125	2152	2590	8609	9828	6581	12163	17810	18870	17072
American plaice	389	298	175	344	347	451	1288	714	1821	1791
Yellowtail flounder						1	10	11	5	
Witch flounder	347	236	375	573	289	849	1982	2254	16	12
Greenland halibut	3343	3308	1814	5967	8805	10539	13961	11170	3614	4194
Atlantic halibut	17	12	18	45	53	81	228	91		
Roughhead grenadier (1)	762	784	1402	2223	1969	2000	4486	3211	290	914
Roundnose grenadier										
Anarhichas spp.	185	122	1401	3219	2302	1696	2843	1940		
Hadocck	39		2	10	10	166	83	17		
Pollock				13	41	28	421	11		
White hake (2)	56	124	230	267	366	466	1009	467		
Red hake										
Capelin								77		
Skates	904	788	2068	6238	7626	7017	23301	13569	663	1097
Monkfish			2		8	37	10	2		
Squid		3								
Shrimp	170									
Unidentified	116	22	14	12	238	325	174	852		
TOTAL	9000	9167	11441	30156	35532	36220	75314	67334	49408	38011

(1) Reported as Roundnose grenadier in years before.
(2) Reported as Red hake in years before.

TABLE II - A : PORTUGUESE TRAWL EFFORT IN FISHING DAYS AND FISHING HOURS IN NAFO AREA IN 2007.

MONTH	DIVISION												TOTAL		MONTH
	1F	2H	2J	3K	3L		3M		3N		3O		Div. 3LMNO		
	DAYS	DAYS	DAYS	DAYS	DAYS	HOURS	DAYS	HOURS	DAYS	HOURS	DAYS	HOURS	DAYS	HOURS	
JAN.					14	204	3	22	2	11	13	109	32	346	JAN.
FEB.					94	1519	39	438	8	44	13	109	154	2109	FEB.
MAR.					77	1196	54	561	6	51	4	39	141	1846	MAR.
APR.					43	567	34	404	17	194	32	330	126	1495	APR.
MAY					29	383	30	251	6	20	21	244	86	898	MAY
JUN.					14	185	11	92	2	14	15	211	42	502	JUN.
JUL.	1		2		3	40	118	988	8	57	30	422	159	1506	JUL.
AUG.	25	1	16	7	17	224	70	586	34	241	89	1252	210	2303	AUG.
SEP.	2								29	205	83	1167	112	1373	SEP.
OCT.									21	228	74	1061	95	1288	OCT.
NOV.									18	187	23	308	41	495	NOV.
DEC.									11	68	24	227	35	295	DEC.
TOTAL	28	1	18	7	291	4317	359	3342	162	1318	421	5478	1233	14455	TOTAL

Note: Fishing hours and number of nets estimated from their monthly rates to fishing days observed in the trawlers and gillnetters sampled by the IPIMAR
Monthly effort of gillnetters is given by the sum of nets per fishing day

TABLE II - B: PORTUGUESE TRAWL EFFORT IN FISHING DAYS AND FISHING HOURS IN NAFO Div. 3LMNO.

YEAR	GEAR				YEAR
	OT		GNS		
	DAYS	HOURS	DAYS	NETS	
2007	1233	14455			2007
2006	1485	19666			2006
2005	1476	15744			2005
2004	1705	18856			2004
2003	2312	25175			2003
2002	1882	19902			2002
2001	1870	24979			2001
2000	1411	14588			2000
1999	1631	19234			1999
1998	1172	16517			1998
1997	1428				1997
1996	1912	27206	166		1996
1995	1425	19083	612	173833	1995
1994	1553	22065	676	166735	1994
1993	2496	32481	731	209536	1993
1992	2670	32662	672	266141	1992
1991	5297	74829	712	302407	1991
1990	5026	72536	714	238732	1990
1989	3850	54833	692	268885	1989

TABLE III: Portuguese trawl fishery cpue's and bycatch by month and division for 2007.

DIVISION	TARGET SPECIES	MONTH	DEPTH RANGE (m) MIN.	DEPTH RANGE (m) MAX.	CPUE (ton/hour)	MAIN BYCATCH SPECIES	MAIN BYCATCH %	WITCH FLOUNDER BYCATCH (%)	TOTAL BYCATCH (%)
3M	RED	JAN	736	846	0.249	GHL	22.8	0.6	30.1
3M	RED	FEB	234	1008	0.513	COD	8.3	0.6	12.4
3M	RED	MAR	227	865	1.281	GHL	1.5	0.2	4.6
3M	RED	APR	424	665	0.441	GHL	16.5	4.5	32.4
3M	RED	MAY	349	650	0.233	SKA	7.4	1.5	18.6
3O	RED	FEB	290	482	0.216	PLA	35.2	7.5	70.6
3O	RED	APR	400	470	1.260	SKA	19.5	10.0	49.1
3O	RED	MAY	361	531	0.570	SKA	14.6	9.4	32.8
3O	RED	OCT	131	552	0.551	CAT	2.9	2.9	10.9
3O	RED	NOV	50	468	0.374	WIT	4.5	4.5	18.6
3O	RED	DEC	190	403	0.691	PLA	6.3	3.9	18.0
3L	GHL	JAN	727	1300	0.809	RHG	1.4	0.8	5.4
3L	GHL	FEB	674	1480	0.653	RHG	4.3	0.8	6.1
3L	GHL	MAR	802	1548	0.713	RHG	5.0	0.4	6.7
3L	GHL	APR	861	1540	0.578	RHG	6.4	0.4	9.1
3M	GHL	JAN	846	973	0.180	CAT	8.4	7.7	27.3
3M	GHL	FEB	784	1641	0.597	RHG	7.2	0.4	10.0
3M	GHL	MAR	320	1305	0.460	RHG	6.2	0.7	13.0
3M	GHL	APR	424	1288	0.456	RHG	4.7	1.1	11.6
3N	GHL	FEB	878	927	0.132	RHG	42.7	1.5	50.9
3N	GHL	APR	847	905	1.433	SKA	5.2	0.8	9.0
3O	GHL	APR	774	1156	0.163	WIT	14.1	14.1	28.9
3O	GHL	MAY	680	1082	0.109	WIT	40.6	40.6	66.6
3M	RHG	JAN	846	973	0.015	GHL	30.5	5.6	83.5
3N	RHG	FEB	878	927	0.115	GHL	49.1	1.5	57.3
3M	SKA	JAN	846	973	0.021	GHL	30.5	5.6	77.9
3M	SKA	FEB	287	481	0.063	RED	24.5	1.3	52.3
3N	SKA	FEB	52.8	334	0.256	RED	16.6	0.0	25.9
3N	SKA	OCT	51	64	0.080	WIT	9.7	9.7	28.2
3N	SKA	NOV	44	64	0.256	PLA	18.8	0.5	34.4
3N	SKA	DEC	58	60	0.168	PLA	19.8	5.3	45.9
3O	SKA	FEB	290	391	0.100	RED	28.8	3.7	87.8
3O	SKA	APR	94	455	0.356	RED	26.4	8.6	62.5
3O	SKA	MAY	361	384	0.128	RED	42.1	8.9	71.4
3O	SKA	NOV	36	102	0.122	PLA	23.3	0.8	28.7
3M	CAT	JAN	846	973	0.023	GHL	30.5	5.6	74.8

TABLE IV - A: GREENLAND HALIBUT TRAWL CATCH RATES, 1988-2007: mean annual cpue's corrected for the month, division and vessel of each observation.

	3L			3M			3N			3LMN			
	CPUE	ST.ERROR	C.V.	CPUE	ST.ERROR	C.V.	CPUE	ST.ERROR	C.V.	CPUE	ST.ERROR	C.V.	
1988	0.404	0.079	39.4							0.404	0.093	46.2	1988
1989	0.367	0.051	41.9							0.358	0.059	49.1	1989
1990	0.338	0.034	35.0	0.233			0.175			0.321	0.034	39.7	1990
1991	0.187	0.026	31.0				0.168	0.030	31.346	0.172	0.018	29.6	1991
1992	0.115	0.033	89.6				0.213	0.025	40.397	0.171	0.023	65.9	1992
1993	0.058	0.079	194.7				0.170	0.018	36.774	0.146	0.020	51.9	1993
1994	0.109	0.033	42.5				0.144	0.021	34.912	0.137	0.017	34.4	1994
1995	0.168	0.025	42.6	0.164	0.009	12.9	0.148	0.021	38.111	0.165	0.015	40.0	1995
1996	0.222	0.022	36.2	0.198	0.016	24.9	0.182	0.018	26.379	0.195	0.010	26.3	1996
1997	0.227	0.022	32.9	0.260	0.029	31.2	0.164	0.009	7.335	0.213	0.018	38.7	1997
1998	0.269	0.020	27.6	0.190	0.028	51.4	0.181	0.014	25.502	0.228	0.010	28.8	1998
1999	0.300	0.026	27.8	0.304	0.025	24.3	0.228	0.019	25.117	0.280	0.018	35.4	1999
2000	0.311	0.023	19.6	0.302	0.022	16.6	0.309	0.042	27.300	0.301	0.019	25.5	2000
2001	0.252	0.030	31.4	0.226	0.011	12.8	0.213	0.013	14.078	0.229	0.013	24.4	2001
2002	0.222	0.018	27.7	0.215	0.019	29.8	0.277	0.034	24.249	0.224	0.014	31.6	2002
2003	0.231	0.018	25.0	0.210	0.025	34.3	0.221	0.024	26.373	0.219	0.015	33.3	2003
2004	0.126	0.015	36.3	0.109	0.020	55.1	0.154	0.011	19.497	0.133	0.011	44.2	2004
2005	0.218	0.018	11.8	0.241	0.060	35.1				0.228	0.023	20.0	2005
2006	0.270	0.004	2.2	0.262						0.255	0.023	15.7	2006
2007	0.501	0.106	36.5	0.178						0.403	0.123	61.2	2007

TABLE IV - B: GREENLAND HALIBUT TRAWL CATCH RATES, 1988-2007 mean cpue's by division corrected for the year, month and vessel of each observation.

	CPUE	ST.ERROR	C.V.	
3L	0.246	0.008	37.8	3L
3M	0.215	0.008	33.3	3M
3N	0.194	0.006	32.3	3N
3LMN	0.221	0.005	39.3	3LMN

TABLE V: Intensity of the trawl sampling during 2007, by species, division and month.

SPECIES	DIV.	MONTH	Nº OF SAMPLES	Nº FISH MEASURED	SAMPLING WEIGHT(Kg)	OTOLITHS Nº	OTOLITHS LENGTH RANGE (cm)
COD	3M	FEB	3	127	267	-	-
COD	3M	MAR	1	9	39	9	48 - 83
COD	3M	APR	1	8	11	-	-
COD	3M	MAY	2	57	58	-	-
COD	3N	FEB	3	64	56	7	29 - 37
COD	3N	APR	4	226	232	96	30 - 78
COD	3N	MAY	1	51	78	66	29 - 80
COD	3O	FEB	1	68	88	56	34 - 81
COD	3O	APR	5	285	392	85	30 - 74
COD	3O	MAY	3	55	98	-	-
REDFISH (*S. mentella*)	3L	JAN	1	80	32	68	23 - 40
REDFISH (*S. mentella*)	3L	APR	2	239	79	-	-
REDFISH (*S. mentella*)	3M	JAN	1	80	26	68	23 - 43
REDFISH (*S. mentella*)	3M	FEB	15	1299	406	175	19 - 44
REDFISH (*S. mentella*)	3M	MAR	17	1567	564	258	16 - 53
REDFISH (*S. mentella*)	3M	APR	3	611	108	-	-
REDFISH (*S. mentella*)	3M	MAY	2	274	84	-	-
REDFISH (*S. mentella*)	3N	FEB	3	593	195	170	17 - 42
REDFISH (*S. mentella*)	3N	APR	3	568	133	62	17 - 35
REDFISH (*S. mentella*)	3N	MAY	1	116	23	70	16 - 30
REDFISH (*S. mentella*)	3O	FEB	2	148	38	120	15 - 37
REDFISH (*S. mentella*)	3O	APR	4	863	160	-	-
REDFISH (*S. mentella*)	3O	MAY	3	688	231	-	-
REDFISH (*S. mentella*)	3O	OCT	33	2658	585	161	15 - 36
REDFISH (*S. mentella*)	3O	NOV	28	2090	491	148	17 - 34
REDFISH (*S. mentella*)	3O	DEC	7	560	120	109	18 - 31
REDFISH (*S. marinus*)	3M	FEB	10	818	256	163	19 - 50
REDFISH (*S. marinus*)	3M	MAR	13	1058	411	172	17 - 54
AMERICAN PLAICE	3L	JAN	1	80	28	45	27 - 49
AMERICAN PLAICE	3L	MAR	1	72	36	72	25 - 48
AMERICAN PLAICE	3M	MAR	1	48	27	-	-
AMERICAN PLAICE	3M	MAY	2	77	43	-	-
AMERICAN PLAICE	3N	FEB	3	195	102	50	24 - 52
AMERICAN PLAICE	3N	APR	4	517	472	47	35 - 61
AMERICAN PLAICE	3N	MAY	1	58	39	58	25 - 60
AMERICAN PLAICE	3N	OCT	1	80	43	51	25 - 51
AMERICAN PLAICE	3N	NOV	6	480	257	131	24 - 64
AMERICAN PLAICE	3N	DEC	1	80	57	57	27 - 61
AMERICAN PLAICE	3O	FEB	2	130	67	109	21 - 53
AMERICAN PLAICE	3O	APR	5	524	339	50	23 - 65
AMERICAN PLAICE	3O	MAY	3	535	427	-	-
AMERICAN PLAICE	3O	NOV	11	800	404	152	24 - 63
AMERICAN PLAICE	3O	DEC	6	480	351	111	27 - 57
YELLOWTAIL FLOUNDER	3N	FEB	1	33	25	-	-
YELLOWTAIL FLOUNDER	3N	APR	4	512	278	67	21 - 44
YELLOWTAIL FLOUNDER	3N	MAY	1	68	39	68	22 - 51
YELLOWTAIL FLOUNDER	3N	NOV	5	400	151	89	26 - 56

TABLE V: cont.

SPECIES	DIV.	MONTH	Nº OF SAMPLES	Nº FISH MEASURED	SAMPLING WEIGHT(Kg)	OTOLITHS Nº	OTOLITHS LENGTH RANGE (cm)
GREENLAND HALIBUT	3L	JAN	8	640	547	112	30 - 62
GREENLAND HALIBUT	3L	FEB	22	2442	2396	443	32 - 76
GREENLAND HALIBUT	3L	MAR	25	3412	2829	273	32 - 64
GREENLAND HALIBUT	3L	APR	16	3545	2760	127	32 - 64
GREENLAND HALIBUT	3M	JAN	2	160	164	87	37 - 63
GREENLAND HALIBUT	3M	FEB	6	792	656	50	38 - 68
GREENLAND HALIBUT	3M	MAR	11	1545	1299	216	29 - 92
GREENLAND HALIBUT	3M	APR	3	464	414	-	-
GREENLAND HALIBUT	3N	FEB	2	133	126	111	34 - 82
GREENLAND HALIBUT	3N	APR	1	153	132	-	-
GREENLAND HALIBUT	3O	APR	1	112	78	-	-
GREENLAND HALIBUT	3O	MAY	1	109	81	-	-
ROUGHHEAD GRENADIER	3L	JAN	2	160	77	75	11.5 - 36.5
ROUGHHEAD GRENADIER	3L	FEB	17	2331	1227	403	7 - 34
ROUGHHEAD GRENADIER	3L	MAR	22	3672	1752	235	6 - 29.5
ROUGHHEAD GRENADIER	3L	APR	14	2868	1306	136	6.5 - 32
ROUGHHEAD GRENADIER	3M	FEB	6	898	398	50	8.5 - 18.5
ROUGHHEAD GRENADIER	3M	MAR	10	1473	799	218	7 - 32
ROUGHHEAD GRENADIER	3M	APR	1	124	52	-	-
ROUGHHEAD GRENADIER	3N	FEB	1	64	70	64	10.5 - 24.5
ROUGHHEAD GRENADIER	3O	MAY	1	167	89	-	-
WITCH FLOUNDER	3L	JAN	4	320	228	-	-
WITCH FLOUNDER	3L	FEB	7	437	227	-	-
WITCH FLOUNDER	3L	MAR	6	305	165	-	-
WITCH FLOUNDER	3L	APR	4	223	95	-	-
WITCH FLOUNDER	3M	JAN	1	80	50	-	-
WITCH FLOUNDER	3M	FEB	3	169	81	-	-
WITCH FLOUNDER	3M	MAR	4	236	97	-	-
WITCH FLOUNDER	3M	APR	3	182	81	-	-
WITCH FLOUNDER	3N	FEB	1	35	10	-	-
WITCH FLOUNDER	3N	APR	1	86	44	-	-
WITCH FLOUNDER	3N	OCT	1	80	47	-	-
WITCH FLOUNDER	3O	FEB	1	158	56	-	-
WITCH FLOUNDER	3O	APR	3	290	120	-	-
WITCH FLOUNDER	3O	MAY	3	449	193	-	-
WITCH FLOUNDER	3O	OCT	9	702	468	-	-
WITCH FLOUNDER	3O	NOV	5	400	210	-	-
WITCH FLOUNDER	3O	DEC	1	80	63	-	-
WHITE HAKE	3O	FEB	1	41	48	-	-
WHITE HAKE	3O	APR	3	152	169	-	-
WHITE HAKE	3O	MAY	2	86	92	-	-
THORNY SKATE	3L	MAR	2	30	122	-	-
THORNY SKATE	3M	FEB	3	57	209	-	-
THORNY SKATE	3M	MAR	4	91	338	-	-
THORNY SKATE	3M	APR	2	49	171	-	-
THORNY SKATE	3M	MAY	1	17	45	-	-
THORNY SKATE	3N	FEB	1	60	187	-	-
THORNY SKATE	3N	APR	3	98	355	-	-
THORNY SKATE	3O	APR	3	119	409	-	-
THORNY SKATE	3O	MAY	1	50	170	-	-
SPINYTAIL SKATE	3L	FEB	3	38	202	-	-
SPINYTAIL SKATE	3L	MAR	7	94	567	-	-
SPINYTAIL SKATE	3L	APR	6	69	493	-	-
SPINYTAIL SKATE	3M	FEB	2	34	147	-	-
SPINYTAIL SKATE	3M	MAR	4	54	344	-	-
SPINYTAIL SKATE	3M	APR	1	14	74	-	-
SPINYTAIL SKATE	3N	APR	1	12	75	-	-
MONKFISH	3O	FEB	1	14	50	-	-

TABLE VI: Length-weight relationship by species, stock and sex in 2007.

Species	Stock	Sex	a	b	n	r^2	Length interval (cm)
COD	3M	T	0.0010	3.6128	9	0.975	48-83
COD	3NO	T	0.0080	3.0590	310	0.992	29-81
GHL	2J3KLMNO	F	0.0022	3.3861	1669	0.986	29-83
GHL	2J3KLMNO	M	0.0057	3.1184	1650	0.996	29-64
GHL	2J3KLMNO	T	0.0020	3.3991	3319	0.989	29-83
WIT	2J3KL	F	0.1364	2.2912	463	0.930	30-51
WIT	2J3KL	M	0.1411	2.2825	497	0.936	30-51
WIT	2J3KL	T	0.1393	2.2858	960	0.934	30-51
WIT	3NO	F	0.0953	2.3804	603	0.959	27-51
WIT	3NO	M	0.0956	2.3820	677	0.957	27-51
WIT	3NO	T	0.0952	2.3822	1280	0.960	27-51
PLA	3LNO	F	0.0044	3.2071	1276	0.990	23-65
PLA	3LNO	M	0.0064	3.0942	1241	0.991	21-64
PLA	3LNO	T	0.0041	3.2188	2517	0.990	21-65
YEL	3LNO	F	0.0036	3.2656	276	0.985	21-51
YEL	3LNO	M	0.0044	3.2129	258	0.980	23-56
YEL	3LNO	T	0.0037	3.2525	534	0.986	21-56
RHG	3LMNO	F	0.3344	2.7500	1088	0.981	7-34
RHG	3LMNO	M	0.9495	2.2840	878	0.963	6-28
RHG	3LMNO	T	0.2987	2.7816	1966	0.984	6-34
REB	3LN	F	0.0186	2.9355	193	0.980	17-42
REB	3LN	M	0.0190	2.9106	189	0.968	16-40
REB	3LN	T	0.0207	2.8946	382	0.982	16-42
REB	3M	F	0.0121	3.0493	1051	0.988	16-53
REB	3M	M	0.0120	3.0481	1217	0.990	17-50
REB	3M	T	0.0100	3.1018	2268	0.991	16-53
REB	3O	F	0.0174	2.9353	2766	0.986	15-37
REB	3O	M	0.0122	3.0354	2822	0.977	15-34
REB	3O	T	0.0143	2.9914	5588	0.988	15-37
REG	3M	F	0.0143	3.0062	890	0.985	18-50
REG	3M	M	0.0170	2.9528	983	0.986	17-54
REG	3M	T	0.0148	2.9987	1874	0.988	17-54

TABLE VII : COD, DIV. 3M, 2007: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	MAR	APR	MAY	1st Q.	2nd Q.	YEAR	LENGTH GROUP
30				64.1		59.0	2.0	30
33				69.6		64.1	2.1	33
36				69.6		64.1	2.1	36
39				153.8		141.7	4.7	39
42			250.0	109.9		120.9	4.0	42
45	11.3		250.0	153.8	11.2	161.4	16.2	45
48	90.0	222.2	125.0	148.3	90.4	146.5	92.2	48
51	80.4		125.0	95.3	80.2	97.6	80.8	51
54	80.4		250.0	60.5	80.1	75.4	80.0	54
57	101.8			60.5	101.5	55.7	100.0	57
60	158.8				158.3		153.1	60
63	188.1	222.2			188.2		182.0	63
66	109.4	222.2			109.7		106.1	66
69	89.3			14.6	89.0	13.5	86.5	69
72	70.2				70.0		67.6	72
75	9.9				9.9		9.5	75
78		111.1			0.3		0.3	78
81	9.9	222.2			10.5		10.2	81
84	0.6				0.6		0.6	84
TOTAL	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	3	1	1	2	4	3	7	
SAMPLING WEIGHT(kg)	267	39	11	58	306	69	375	
No. F.MEASURED	127	9	8	57	136	65	201	
MEAN LENGTH(cm)	62.0	67.5	49.1	45.5	62.0	45.8	61.5	
MEAN WEIGHT (g)	2797	3741	1400	1183	2800	1200	2747	
DEPTH RANGE (m)	240/481	362/417	424/442	349/481	240/481	349/481	240/481	

TABLE VIII-A : COD, DIV. 3N, 2007: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	APR	MAY	1st Q.	2nd Q.	YEAR	LENGTH GROUP
21	23.3			23.3		2.0	21
24	11.6			11.6		1.0	24
27	17.4		19.6	17.4	5.5	6.5	27
30	139.5	19.6	215.7	139.5	74.7	80.3	30
33	87.8	53.1		87.8	38.2	42.5	33
36	108.3	155.6	156.9	108.3	155.9	151.8	36
39	94.1	363.8	98.0	94.1	289.1	272.1	39
42	185.5	162.8	137.3	185.5	155.6	158.2	42
45	61.8	174.4	117.6	61.8	158.5	150.1	45
48	41.2	31.2	19.6	41.2	27.9	29.1	48
51	41.2	4.9		41.2	3.5	6.8	51
54	32.2		39.2	32.2	11.0	12.9	54
57	41.2	10.9		41.2	7.8	10.7	57
60	32.2	3.8	19.6	32.2	8.2	10.3	60
63	41.2	3.8	39.2	41.2	13.8	16.1	63
66	20.6			20.6		1.8	66
69	20.6	1.6	39.2	20.6	12.2	12.9	69
72			19.6		5.5	5.0	72
75			19.6		5.5	5.0	75
78		8.1	58.8		22.4	20.5	78
81		2.2			1.6	1.4	81
84							84
87							87
90							90
93		2.2			1.6	1.4	93
96							96
99							99
102		2.2			1.6	1.4	102
TOTAL	1000	1000	1000	1000	1000	1000	
No. SAMPLES	3	3	1	3	4	7	
SAMPLING WEIGHT(kg)	56	208	78	56	286	341	
No. F.MEASURED	64	208	51	64	259	323	
MEAN LENGTH(cm)	43.5	42.5	45.9	43.5	43.5	43.5	
MEAN WEIGHT (g)	1002	853	1316	1002	983	985	
DEPTH RANGE (m)	316/346	59/359	335/548	316/346	59/548	59/548	

TABLE VIII-B : COD, DIV. 3N, 2007: length composition (0/000) of the 280mm trawl catches.

LENGTH GROUP	APR =YEAR	LENGTH GROUP
42	388.9	42
45	166.7	45
48	222.2	48
51	55.6	51
54	55.6	54
57	111.1	57
TOTAL	1000	
No. SAMPLES	1	
SAMPLING WEIGHT(kg)	24	
No. F.MEASURED	18	
MEAN LENGTH(cm)	48.2	
MEAN WEIGHT (g)	1166	
DEPTH RANGE (m)	331/366	

TABLE IX-A : COD, DIV. 3O, 2007: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	APR	MAY	1st Q.	2nd Q.	YEAR	LENGTH GROUP
30		3.2			2.9	2.5	30
33	14.7	17.7		14.7	15.6	15.5	33
36	147.1	42.3	16.8	147.1	39.3	51.0	36
39	88.2	45.0	134.3	88.2	55.5	59.1	39
42	44.1	71.1	58.5	44.1	69.6	66.8	42
45	294.1	91.5	125.2	294.1	95.5	117.1	45
48	205.9	122.2	125.2	205.9	122.6	131.7	48
51	88.2	180.2	143.5	88.2	175.8	166.3	51
54	29.4	125.3	153.6	29.4	128.7	117.9	54
57	29.4	111.3	10.1	29.4	99.4	91.7	57
60		85.9	85.0		85.8	76.5	60
63	29.4	59.8	62.0	29.4	60.0	56.7	63
66		31.6	45.2		33.2	29.6	66
69		0.6	10.1		1.8	1.6	69
72		12.2	30.3		14.3	12.8	72
75							75
78	14.7			14.7		1.6	78
81	14.7			14.7		1.6	81
TOTAL	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	4	3	1	7	8	
SAMPLING WEIGHT(kg)	88	364	98	88	462	551	
No. F.MEASURED	68	253	55	68	308	376	
MEAN LENGTH(cm)	47.6	52.7	52.5	47.6	52.6	52.1	
MEAN WEIGHT (g)	1211	1591	1600	1211	1592	1551	
DEPTH RANGE (m)	290/391	94/455	361/531	290/391	94/531	94/531	

TABLE IX-B : COD, DIV. 3O, 2007: length composition (0/000) of the 280mm trawl catches.

LENGTH GROUP	APR =YEAR	LENGTH GROUP
30	31.3	30
33	31.3	33
36	93.8	36
39	218.8	39
42	375.0	42
45	31.3	45
48	93.8	48
51	31.3	51
54	93.8	54
TOTAL	1000	
No. SAMPLES	1	
SAMPLING WEIGHT(kg)	28	
No. F.MEASURED	32	
MEAN LENGTH(cm)	43.7	
MEAN WEIGHT (g)	881	
DEPTH RANGE (m)	137/137	

TABLE X : REDFISH (*S. mentella*), DIV. 3L, 2007: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	JAN	APR	1st Q.	2nd Q.	YEAR	LENGTH GROUP
19		17.1		17.1	10.1	19
20		56.7		56.7	33.6	20
21		30.1		30.1	17.9	21
22		58.8		58.8	34.8	22
23	25.0	66.4	25.0	66.4	49.5	23
24	25.0	48.4	25.0	48.4	38.9	24
25	62.5	40.8	62.5	40.8	49.6	25
26	50.0	43.2	50.0	43.2	46.0	26
27	12.5	37.7	12.5	37.7	27.5	27
28	200.0	62.7	200.0	62.7	118.6	28
29	62.5	118.8	62.5	118.8	95.9	29
30	100.0	69.2	100.0	69.2	81.7	30
31	87.5	63.7	87.5	63.7	73.4	31
32	175.0	106.7	175.0	106.7	134.5	32
33	25.0	101.2	25.0	101.2	70.2	33
34	87.5	35.0	87.5	35.0	56.4	34
35	12.5	36.6	12.5	36.6	26.8	35
36	50.0	7.0	50.0	7.0	24.5	36
37						37
38						38
39	12.5		12.5		5.1	39
40	12.5		12.5		5.1	40
TOTAL	1000	1000	1000	1000	1000	
No. SAMPLES	1	2	1	2	3	
SAMPLING WEIGHT(kg)	32	79	32	79	110	
No. F.MEASURED	80	239	80	239	319	
MEAN LENGTH(cm)	30.6	28.5	30.6	28.5	29.3	
MEAN WEIGHT (g)	431	357	431	357	387	
DEPTH RANGE (m)	727/842	861/1028	727/842	861/1028	727/1028	

TABLE XI : REDFISH (*S. mentella*), DIV. 3M, 2007: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	JAN	FEB	MAR	APR	MAY	1st Q.	2nd Q.	YEAR	LENGTH GROUP
16			0.3	1.9		0.2	1.4	0.3	16
17			0.3	8.3		0.2	6.2	0.7	17
18			9.0	14.0		5.8	10.5	6.2	18
19		13.7	43.1	41.7	4.9	32.7	32.5	32.7	19
20		24.9	23.2	111.0	36.5	23.7	92.3	29.0	20
21		21.6	48.1	173.5	45.6	38.7	141.4	46.7	21
22		40.9	7.5	206.7	120.2	18.9	185.0	31.9	22
23	25.0	58.9	7.0	195.9	96.3	25.0	170.9	36.3	23
24	100.0	81.5	6.4	110.0	73.1	32.8	100.8	38.0	24
25	50.0	98.7	7.7	53.8	66.2	39.2	56.9	40.6	25
26	37.5	69.6	68.2	36.6	91.5	68.5	50.4	67.1	26
27	200.0	93.0	67.1	20.0	84.5	76.8	36.2	73.7	27
28	175.0	67.0	80.1	11.3	87.9	76.2	30.5	72.6	28
29	87.5	115.1	92.0	5.7	99.1	99.9	29.1	94.4	29
30	87.5	112.3	110.9	6.7	102.5	111.2	30.7	105.0	30
31	75.0	86.7	95.7	2.9	41.3	92.4	12.5	86.2	31
32		57.0	100.8		25.2	85.1	6.3	79.0	32
33	75.0	29.6	82.5		14.0	64.3	3.5	59.6	33
34	37.5	13.7	61.7		8.4	45.1	2.1	41.7	34
35		1.6	49.0		2.8	32.4	0.7	29.9	35
36		1.9	24.7			16.8		15.4	36
37	25.0	3.5	2.3			2.9		2.7	37
38		3.0	2.1			2.4		2.2	38
39		4.1	2.1			2.8		2.6	39
40			0.3			0.2		0.2	40
41	12.5		2.4			1.6		1.5	41
42			0.9			0.6		0.6	42
43	12.5	0.8				0.4		0.3	43
44		0.8	0.9			0.9		0.8	44
45			0.6			0.4		0.4	45
46			0.9			0.6		0.5	46
47									47
48									48
49			0.4			0.3		0.3	49
50			1.4			0.9		0.8	50
51									51
52									52
53			0.4			0.2		0.2	53
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	15	17	3	2	33	5	38	
SAMPLING WEIGHT(kg)	26	406	564	108	84	996	192	1188	
No. F.MEASURED	80	1299	1567	611	274	2946	885	3831	
MEAN LENGTH(cm)	29.2	27.8	29.7	22.9	26.6	29.1	23.8	28.6	
MEAN WEIGHT (g)	372	323	400	173	279	373	199	360	
DEPTH RANGE (m)	736/846	287/786	227/865	424/665	349/481	227/865	349/665	227/865	

TABLE XII-A : REDFISH (*S. mentella*), DIV. 3N, 2007: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	APR	MAY	1st Q.	2nd Q.	YEAR	LENGTH GROUP
16			17.2		9.4	6.8	16
17	2.2	8.7	8.6	2.2	8.7	6.9	17
18	4.4	8.4		4.4	3.8	4.0	18
19	28.3	18.7	94.8	28.3	60.1	51.3	19
20	39.2	64.7	206.9	39.2	142.1	113.6	20
21	102.3	248.6	258.6	102.3	254.1	212.1	21
22	113.3	278.8	137.9	113.3	202.2	177.6	22
23	132.7	166.1	120.7	132.7	141.4	139.0	23
24	84.6	64.3	51.7	84.6	57.5	65.0	24
25	76.2	29.6	17.2	76.2	22.9	37.6	25
26	79.7	19.6	25.9	79.7	23.0	38.7	26
27	42.7	25.8	25.9	42.7	25.8	30.5	27
28	27.2	8.4	17.2	27.2	13.2	17.1	28
29	20.0	8.7	8.6	20.0	8.7	11.8	29
30	19.0	17.4	8.6	19.0	12.6	14.4	30
31	9.9	9.0		9.9	4.1	5.7	31
32	28.2	2.2		28.2	1.0	8.5	32
33	42.5	1.9		42.5	0.9	12.4	33
34	32.1	1.6		32.1	0.7	9.4	34
35	27.5	10.3		27.5	4.7	11.0	35
36	39.7	3.8		39.7	1.7	12.2	36
37	16.9	1.9		16.9	0.9	5.3	37
38	16.8	1.3		16.8	0.6	5.1	38
39	8.4	0.3		8.4	0.1	2.4	39
40	4.2			4.2		1.2	40
41							41
42	2.1			2.1		0.6	42
TOTAL	1000	1000	1000	1000	1000	1000	
No. SAMPLES	3	2	1	3	3	6	
SAMPLING WEIGHT(kg)	195	83	23	195	106	301	
No. F.MEASURED	593	307	116	593	423	1016	
MEAN LENGTH(cm)	26.6	23.2	22.1	26.6	22.6	23.7	
MEAN WEIGHT (g)	309	193	166	309	179	214	
DEPTH RANGE (m)	316/346	247/359	335/548	316/346	247/548	247/548	

TABLE XII-B : REDFISH (*S. mentella*), DIV. 3N, 2007: length composition (0/000) of the 280mm trawl catches.

LENGTH GROUP	APR =YEAR	LENGTH GROUP
16	26.8	16
17	42.1	17
18	11.5	18
19	42.1	19
20	72.8	20
21	134.1	21
22	191.6	22
23	145.6	23
24	180.1	24
25	80.5	25
26	26.8	26
27	11.5	27
28	7.7	28
29	15.3	29
30	11.5	30
TOTAL	1000	
No. SAMPLES	1	
SAMPLING WEIGHT(kg)	50	
No. F.MEASURED	261	
MEAN LENGTH(cm)	22.8	
MEAN WEIGHT (g)	182	
DEPTH RANGE (m)	331/366	

TABLE XIII : REDFISH (*S. mentella*), DIV. 3O, 2007: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	APR	MAY	OCT	NOV	DEC	1st Q.	2nd Q.	4th Q.	YEAR	LENGTH GROUP
15	6.6	3.3		0.6			6.6	2.7	0.3	0.6	15
16	26.3	2.7		1.0			26.3	2.2	0.5	0.9	16
17	13.2	3.3	1.9	2.2	1.9		13.2	3.1	1.8	2.0	17
18		20.6	2.3	29.5	5.8	0.7		17.3	18.1	17.9	18
19	6.6	47.5	7.6	56.2	15.7	3.8	6.6	40.3	36.4	36.5	19
20	75.0	106.4	19.2	65.4	57.4	54.7	75.0	90.7	61.4	64.1	20
21	129.9	180.2	38.5	90.6	84.9	97.1	129.9	154.7	89.3	95.3	21
22	177.9	159.4	78.4	89.0	130.2	143.3	177.9	144.9	109.2	112.9	22
23	164.8	165.6	76.3	97.2	147.4	158.3	164.8	149.5	121.2	124.1	23
24	75.0	91.0	83.0	95.6	127.8	137.7	75.0	89.6	111.4	109.2	24
25	60.5	107.6	89.7	87.5	114.6	96.8	60.5	104.4	97.9	98.2	25
26	20.1	47.0	84.7	81.9	105.0	119.5	20.1	53.8	94.0	89.9	26
27	33.2	21.4	90.7	89.4	87.8	58.5	33.2	33.9	85.5	80.6	27
28	39.8	11.5	89.1	76.7	76.2	104.3	39.8	25.5	79.5	74.5	28
29	39.5	10.9	76.7	72.6	19.3	19.2	39.5	22.7	48.3	46.0	29
30	32.9	6.3	74.7	44.6	6.2	3.4	32.9	18.6	26.8	26.1	30
31	13.2	5.6	37.5	11.1	15.0	2.6	13.2	11.3	11.5	11.5	31
32	26.3	4.5	39.1	5.3	2.5		26.3	10.7	3.7	4.5	32
33	13.2	3.0	38.3	0.9			13.2	9.3	0.5	1.4	33
34	19.7	2.2	33.9		0.2		19.7	7.9	0.1	0.9	34
35			24.2					4.3		0.4	35
36	19.7		9.0	0.2			19.7	1.6	0.1	0.4	36
37	6.6		4.3				6.6	0.8		0.1	37
38			1.1					0.2		0.02	38
39											39
40											40
41				0.5	0.7				0.5	0.4	41
42											42
43				0.3	0.7				0.4	0.4	43
44				0.2					0.1	0.1	44
45				0.6					0.3	0.3	45
46				0.2					0.1	0.1	46
47				0.3					0.2	0.1	47
48				0.2					0.1	0.1	48
49					0.2				0.1	0.1	49
50				0.2					0.1	0.1	50
51				0.5					0.2	0.2	51
52											52
53											53
54											54
55											55
56					0.2				0.1	0.1	56
57											57
58											58
59											59
60					0.2				0.1	0.1	60
61											61
62					0.2				0.1	0.1	62
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	2	4	3	33	28	7	2	7	68	77	
SAMPLING WEIGHT(kg)	38	160	231	585	491	120	38	391	1197	1626	
No. F.MEASURED	148	863	688	2658	2090	560	148	1551	5308	7007	
MEAN LENGTH(cm)	24.6	23.1	27.4	24.9	24.7	24.6	24.6	23.9	24.8	24.7	
MEAN WEIGHT (g)	227	179	305	227	218	212	227	202	222	220	
DEPTH RANGE (m)	429/664	129/470	361/531	273/552	276/468	236/350	429/664	129/531	236/552	129/664	

TABLE XIV : REDFISH (*S. marinus*), DIV. 3M, 2007: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	MAR	1st Q. =YEAR	LENGTH GROUP
17		1.9	1.1	17
18		11.3	6.4	18
19	4.9	18.9	12.8	19
20	36.7	12.3	22.9	20
21	33.0	35.0	34.1	21
22	59.9	0.9	26.7	22
23	63.6	1.9	28.8	23
24	72.1	5.7	34.7	24
25	63.6	0.9	28.3	25
26	67.3	52.0	58.7	26
27	80.7	74.7	77.3	27
28	85.6	86.0	85.8	28
29	84.4	117.2	102.9	29
30	132.0	131.4	131.7	30
31	84.3	116.3	102.3	31
32	67.2	95.5	83.1	32
33	42.8	77.5	62.4	33
34	7.3	73.7	44.8	34
35	2.4	66.2	38.4	35
36		5.7	3.2	36
37	3.7	1.9	2.7	37
38	1.2	3.8	2.7	38
39		0.9	0.5	39
40		1.9	1.1	40
41		0.9	0.5	41
42		1.9	1.1	42
43	1.2	0.9	1.1	43
44	1.2	0.9	1.1	44
45				45
46	2.4		1.1	46
47		0.9	0.5	47
48	1.2		0.5	48
49				49
50	1.2		0.5	50
51				51
52				52
53				53
54		0.9	0.5	54
TOTAL	1000	1000	1000	
No. SAMPLES	10	13	23	
SAMPLING WEIGHT(kg)	256	411	667	
No. F.MEASURED	818	1058	1876	
MEAN LENGTH(cm)	27.9	30.3	29.2	
MEAN WEIGHT (g)	336	425	386	
DEPTH RANGE (m)	234/1008	277/317	234/1008	

TABLE XV : AMERICAN PLAICE, DIV. 3L, 2007: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	JAN	MAR	1st Q. =YEAR	LENGTH GROUP
24		13.9	9.4	24
26	25.0	13.9	17.5	26
28	25.0	41.7	36.3	28
30	150.0	138.9	142.5	30
32	212.5	180.6	190.8	32
34	250.0	194.4	212.3	34
36	200.0	180.6	186.8	36
38	62.5	55.6	57.8	38
40	62.5	41.7	48.4	40
42		27.8	18.8	42
44		69.4	47.1	44
46		13.9	9.4	46
48	12.5	27.8	22.9	48
TOTAL	1000	1000	1000	
No. SAMPLES	1	1	2	
SAMPLING WEIGHT(kg)	28	36	65	
No. F.MEASURED	80	72	152	
MEAN LENGTH(cm)	34.8	35.9	35.5	
MEAN WEIGHT (g)	396	453	434	
DEPTH RANGE (m)	1023/1046	810/867	810/1046	

TABLE XVI : AMERICAN PLAICE, DIV. 3M, 2007: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	MAR	MAY	1st Q.	2nd Q.	YEAR	LENGTH GROUP
26	20.8	11.7	20.8	11.7	15.1	26
28	20.8	29.5	20.8	29.5	26.3	28
30	83.3	49.9	83.3	49.9	62.2	30
32	125.0	132.4	125.0	132.4	129.7	32
34	125.0	141.1	125.0	141.1	135.2	34
36	166.7	165.0	166.7	165.0	165.6	36
38	125.0	164.6	125.0	164.6	150.1	38
40	125.0	70.8	125.0	70.8	90.6	40
42	83.3	138.1	83.3	138.1	118.0	42
44	62.5	38.2	62.5	38.2	47.1	44
46	62.5	11.7	62.5	11.7	30.3	46
48		23.5		23.5	14.9	48
50		23.5		23.5	14.9	50
TOTAL	1000	1000	1000	1000	1000	
No. SAMPLES	1	2	1	2	3	
SAMPLING WEIGHT(kg)	27	43	27	43	70	
No. F.MEASURED	48	77	48	77	125	
MEAN LENGTH(cm)	37.8	38.0	37.8	38.0	37.9	
MEAN WEIGHT (g)	556	565	556	565	562	
DEPTH RANGE (m)	454/518	349/481	454/518	349/481	349/518	

TABLE XVII-A : AMERICAN PLAICE, DIV. 3N, 2007: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	APR	MAY	OCT	NOV	DEC	1st Q.	2nd Q.	4th Q.	YEAR	LENGTH GROUP
20		3.0						2.2		1.4	20
22											22
24	12.3	4.9	17.2	25.0	12.5		12.3	8.0	12.3	9.6	24
26	12.0	15.0		25.0	81.8	37.5	12.0	11.2	77.8	24.4	26
28	14.2	36.7	51.7	12.5	109.7	25.0	14.2	40.5	102.5	48.1	28
30	5.2	49.5	69.0	37.5	197.3	25.0	5.2	54.3	183.7	71.3	30
32	136.8	79.2	103.4	25.0	214.9		136.8	85.2	198.3	116.3	32
34	28.1	54.5	34.5	250.0	129.5	37.5	28.1	49.5	128.4	61.3	34
36	164.1	90.8	86.2	37.5	106.8	62.5	164.1	89.7	102.5	105.0	36
38	115.8	109.4	103.4	50.0	9.5	37.5	115.8	107.9	12.1	90.5	38
40	219.5	136.6	189.7	312.5	6.2	275.0	219.5	149.8	29.0	138.1	40
42	183.0	66.4	155.2	112.5	26.2	250.0	183.0	88.5	40.2	95.3	42
44	36.1	44.8	34.5	25.0	8.6	50.0	36.1	42.2	11.2	35.0	44
46	24.8	81.4	34.5	50.0	4.8	75.0	24.8	69.7	9.7	50.2	46
48	24.0	80.3	34.5	12.5	2.5	87.5	24.0	68.9	7.2	49.0	48
50	12.0	15.8		25.0	10.7	12.5	12.0	11.8	11.2	11.8	50
52	12.0	46.4	34.5		6.3	12.5	12.0	43.5	6.5	30.8	52
54		23.7	34.5		7.3			26.4	6.7	18.0	54
56		16.1			44.1			12.1	40.6	15.6	56
58		26.9			16.8			20.2	15.4	15.8	58
60		9.6	17.2		1.3	12.5		11.5	1.8	7.6	60
62		9.0			2.5			6.7	2.3	4.7	62
64					0.7				0.7	0.1	64
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	3	3	1	1	6	1	3	4	8	15	
SAMPLING WEIGHT(kg)	102	323	39	43	257	57	102	362	357	821	
No. F.MEASURED	195	401	58	80	480	80	195	459	640	1294	
MEAN LENGTH(cm)	39.4	41.8	40.0	38.8	35.0	41.8	39.4	41.3	35.4	39.8	
MEAN WEIGHT (g)	594	786	668	569	462	721	594	756	478	674	
DEPTH RANGE (m)	316/938	48/66	61/72	64/64	52/64	58/60	316/938	48/72	52/64	48/938	

TABLE XVII-B : AMERICAN PLAICE, DIV. 3N, 2007: length composition (0/000) of the 280mm trawl catches.

LENGTH GROUP	APR =YEAR	LENGTH GROUP
28	25.9	28
30	8.6	30
32	17.2	32
34	34.5	34
36	60.3	36
38	103.4	38
40	103.4	40
42	43.1	42
44	120.7	44
46	86.2	46
48	25.9	48
50	34.5	50
52	94.8	52
54	103.4	54
56	51.7	56
58	77.6	58
60	8.6	60
TOTAL	1000	
No. SAMPLES	1	
SAMPLING WEIGHT(kg)	149	
No. F.MEASURED	116	
MEAN LENGTH(cm)	46.4	
MEAN WEIGHT (g)	1069	
DEPTH RANGE (m)	53/53.8	

TABLE XVIII-A : AMERICAN PLAICE, DIV. 3O, 2007: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	APR	MAY	NOV	DEC	1st Q.	2nd Q.	4th Q.	YEAR	LENGTH GROUP
20	6.6					6.6			0.9	20
22		6.2					3.3		2.0	22
24	21.5	6.2		10.0		21.5	3.3	7.4	6.9	24
26	6.6	9.7	19.6	59.5	8.8	6.6	14.3	46.3	21.3	26
28	28.1	40.7	19.6	131.8	1.2	28.1	30.9	97.7	47.4	28
30	58.0	70.3	19.6	152.5	16.2	58.0	46.8	116.9	66.1	30
32	92.7	64.9	98.0	161.3	79.0	92.7	80.3	139.8	97.1	32
34	64.6	94.4	78.4	103.8	4.0	64.6	87.0	77.7	81.5	34
36	115.0	153.1	117.6	79.8	5.7	115.0	136.7	60.4	114.3	36
38	143.0	173.5	333.3	122.3	38.7	143.0	247.7	100.4	195.6	38
40	253.0	133.8	58.8	46.9	154.8	253.0	99.0	75.1	114.9	40
42	80.3	80.9	58.8	77.9	186.0	80.3	70.7	106.2	81.0	42
44	75.6	30.7	58.8	7.7	215.6	75.6	43.8	62.0	52.9	44
46	16.8	21.1	58.8	3.6	173.5	16.8	38.6	48.0	37.9	46
48	16.8	20.4		13.2	83.8	16.8	10.9	31.7	17.0	48
50	8.4	35.5	58.8	4.9	16.1	8.4	46.3	7.8	31.2	50
52	13.1	9.7		4.8	2.0	13.1	5.2	4.1	6.0	52
54		21.4	19.6	12.6	12.7		20.6	12.6	15.6	54
56		11.7		0.9	2.0		6.3	1.2	4.1	56
58		6.2		1.7			3.3	1.2	2.3	58
60		3.5		2.1			1.9	1.5	1.5	60
62				2.9				2.1	0.5	62
64		6.2					3.3		2.0	64
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	2	4	1	11	6	2	5	17	24	
SAMPLING WEIGHT(kg)	67	281	32	404	351	67	313	754	1134	
No. F.MEASURED	130	446	51	800	480	130	497	1280	1907	
MEAN LENGTH(cm)	38.6	39.3	39.5	35.2	43.3	38.6	39.4	37.3	38.7	
MEAN WEIGHT (g)	564	631	615	439	792	564	623	531	592	
DEPTH RANGE (m)	290/391	94/455	361/384	50/437	190/350	290/391	94/455	50/437	50/455	

TABLE XVIII-B : AMERICAN PLAICE, DIV. 3O, 2007: length composition (0/000) of the 280mm trawl catches.

LENGTH GROUP	APR	MAY	2nd Q. =YEAR	LENGTH GROUP
26		2.9	2.6	26
28		6.6	6.0	28
30	12.8	29.9	28.2	30
32	38.5	17.0	19.1	32
34	115.4	74.2	78.3	34
36	102.6	122.3	120.4	36
38	115.4	167.0	161.9	38
40	166.7	128.1	132.0	40
42	243.6	64.6	82.3	42
44	115.4	126.8	125.7	44
46	51.3	74.0	71.7	46
48	25.6	59.6	56.3	48
50		33.2	29.9	50
52	12.8	23.5	22.5	52
54		42.7	38.5	54
56		13.3	12.0	56
58		7.5	6.7	58
60		3.7	3.4	60
62		2.9	2.6	62
TOTAL	1000	1000	1000	
No. SAMPLES	1	2	3	
SAMPLING WEIGHT(kg)	58	395	453	
No. F.MEASURED	78	484	562	
MEAN LENGTH(cm)	40.8	42.4	42.3	
MEAN WEIGHT (g)	664	782	770	
DEPTH RANGE (m)	137/137	110/157	110/157	

TABLE XIX-A : YELLOWTAIL FLOUNDER, DIV. 3N, 2007: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	APR	MAY	NOV	2nd Q.	4th Q.	YEAR	LENGTH GROUP
20	3.7			2.5		2.3	20
22	15.0	44.1		24.6		22.5	22
24	12.0	29.4		17.8		16.3	24
26	17.7	14.7	25.3	16.7	25.3	17.4	26
28	31.6		132.9	21.1	132.9	30.7	28
30	57.4	58.8	246.1	57.9	246.1	74.0	30
32	69.5	44.1	228.1	61.1	228.1	75.4	32
34	154.2	147.1	199.3	151.9	199.3	155.9	34
36	169.2	161.8	67.6	166.7	67.6	158.2	36
38	149.1	161.8	5.2	153.3	5.2	140.6	38
40	118.0	132.4	42.3	122.8	42.3	115.9	40
42	102.4	58.8	1.6	88.0	1.6	80.6	42
44	52.4	88.2	8.3	64.2	8.3	59.4	44
46	8.3	44.1	9.2	20.2	9.2	19.2	46
48	20.8		24.3	13.9	24.3	14.8	48
50	18.6	14.7	3.2	17.3	3.2	16.1	50
52							52
54			6.1		6.1	0.5	54
56			0.5		0.5	0.04	56
TOTAL	1000	1000	1000	1000	1000	1000	
No. SAMPLES	3	1	5	4	5	9	
SAMPLING WEIGHT(kg)	213	39	151	251	151	403	
No. F.MEASURED	422	68	400	490	400	890	
MEAN LENGTH(cm)	37.6	37.6	33.7	37.6	33.7	37.3	
MEAN WEIGHT (g)	539	545	378	541	378	527	
DEPTH RANGE (m)	48.3/66	61/72	44/64	48.3/72	44/64	44/72	

TABLE XIX-B : YELLOWTAIL FLOUNDER, DIV. 3N, 2007: length composition (0/000) of the 280mm trawl catches.

LENGTH GROUP	FEB	APR	1st Q.	2nd Q.	YEAR	LENGTH GROUP
30		11.1		11.1	11.0	30
32	30.3	11.1	30.3	11.1	11.2	32
34	60.6	55.6	60.6	55.6	55.6	34
36	60.6	77.8	60.6	77.8	77.7	36
38	121.2	77.8	121.2	77.8	78.1	38
40	90.9	244.4	90.9	244.4	243.4	40
42	121.2	122.2	121.2	122.2	122.2	42
44	272.7	233.3	272.7	233.3	233.6	44
46	90.9	77.8	90.9	77.8	77.9	46
48	60.6	66.7	60.6	66.7	66.6	48
50	30.3	11.1	30.3	11.1	11.2	50
52	60.6	11.1	60.6	11.1	11.5	52
TOTAL	1000	1000	1000	1000	1000	
No. SAMPLES	1	1	1	1	2	
SAMPLING WEIGHT(kg)	25	65	25	65	90	
No. F.MEASURED	33	90	33	90	123	
MEAN LENGTH(cm)	43.3	42.4	43.3	42.4	42.4	
MEAN WEIGHT (g)	829	766	829	766	767	
DEPTH RANGE (m)	52.8/57.2	53/53.8	52.8/57.2	53/53.8	52.8/57.2	

TABLE XX : GREENLAND HALIBUT, DIV. 3L, 2007: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	JAN	FEB	MAR	APR	1st Q.	2nd Q.	YEAR	LENGTH GROUP
28		0.4		0.1	0.2	0.1	0.2	28
30	0.7	0.4	0.6	7.7	0.6	7.7	2.6	30
32	2.2	7.4	9.6	27.1	7.8	27.1	13.2	32
34	7.2	7.5	23.1	46.9	14.8	46.9	23.7	34
36	3.2	26.2	38.3	57.6	29.3	57.6	37.2	36
38	67.3	60.5	84.3	108.9	72.5	108.9	82.7	38
40	95.6	86.2	139.9	139.9	112.6	139.9	120.2	40
42	163.1	122.1	148.6	160.7	139.3	160.7	145.3	42
44	167.6	142.0	142.8	137.7	145.3	137.7	143.2	44
46	200.9	160.9	156.4	126.0	163.4	126.0	153.0	46
48	128.5	131.6	104.2	82.2	118.3	82.2	108.2	48
50	100.7	90.2	63.7	55.3	78.9	55.3	72.3	50
52	46.2	54.4	52.4	26.3	52.5	26.3	45.2	52
54	6.8	33.9	19.3	11.7	23.9	11.7	20.5	54
56	5.7	20.5	8.5	6.2	13.2	6.2	11.2	56
58	1.6	19.0	3.5	3.5	9.7	3.5	8.0	58
60		11.4	1.7	1.1	5.5	1.1	4.3	60
62	2.8	6.4	1.8	0.3	3.8	0.3	2.8	62
64		6.3	0.7	0.7	2.9	0.7	2.3	64
66		4.2	0.2		1.9		1.3	66
68		2.6	0.2		1.2		0.8	68
70		2.5			1.0		0.7	70
72		2.0			0.8		0.6	72
74		0.8			0.3		0.2	74
76		0.7			0.3		0.2	76
TOTAL	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	8	22	25	16	55	16	71	
SAMPLING WEIGHT(kg)	547	2396	2829	2760	5772	2760	8533	
No. F.MEASURED	640	2442	3412	3545	6494	3545	10039	
MEAN LENGTH(cm)	45.9	47.1	44.9	43.5	45.9	43.5	45.3	
MEAN WEIGHT (g)	911	1040	870	786	945	786	901	
DEPTH RANGE (m)	727/1300	674/1516	802/1498	938/1505	674/1516	938/1505	674/1516	

TABLE XXI : GREENLAND HALIBUT, DIV. 3M, 2007: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	JAN	FEB	MAR	APR	1st Q.	2nd Q.	YEAR	LENGTH GROUP
28			3.1		1.8		1.5	28
30			4.1		2.4		2.0	30
32		0.5	20.5	3.6	12.2	3.6	10.7	32
34		10.1	45.9	6.8	30.9	6.8	26.5	34
36	10.5	17.8	78.3	26.1	53.1	26.1	48.2	36
38	2.0	89.3	105.8	27.3	97.4	27.3	84.7	38
40	8.0	119.2	127.4	76.4	122.0	76.4	113.7	40
42	56.0	181.9	155.1	225.9	164.0	225.9	175.2	42
44	75.4	212.6	142.6	197.8	169.2	197.8	174.4	44
46	229.5	157.2	110.1	171.4	130.9	171.4	138.3	46
48	198.5	112.4	92.9	137.4	102.5	137.4	108.9	48
50	227.0	40.9	58.4	55.0	54.5	55.0	54.6	50
52	56.5	18.5	30.2	23.5	26.0	23.5	25.5	52
54	63.0	8.6	10.6	23.5	10.8	23.5	13.1	54
56	31.5	5.4	6.4	10.0	6.4	10.0	7.1	56
58	31.5	9.1	3.0	6.7	5.9	6.7	6.1	58
60		5.5	0.9	4.9	2.7	4.9	3.1	60
62	10.5	3.6	2.0	3.6	2.8	3.6	2.9	62
64		1.8	0.1		0.8		0.6	64
66		1.8			0.7		0.6	66
68		3.7			1.5		1.2	68
70			0.7		0.4		0.3	70
72			0.3		0.2		0.2	72
74								74
76								76
78			0.7		0.4		0.3	78
80			0.4		0.3		0.2	80
82			0.3		0.2		0.2	82
84								84
86								86
88								88
90								90
92			0.1		0.1		0.1	92
TOTAL	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	2	6	11	3	19	3	22	
SAMPLING WEIGHT(kg)	164	656	1299	414	2120	414	2534	
No. F.MEASURED	160	792	1545	464	2497	464	2961	
MEAN LENGTH(cm)	49.5	45.1	43.6	45.8	44.3	45.8	44.6	
MEAN WEIGHT (g)	1161	880	803	913	840	913	853	
DEPTH RANGE (m)	736/946	784/1641	320/1234	450/1086	320/1641	450/1086	320/1641	

TABLE XXII : GREENLAND HALIBUT, DIV. 3N, 2007: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	APR	1st Q.	2nd Q.	YEAR	LENGTH GROUP
34	37.6	6.5	37.6	6.5	13.0	34
36	22.2	13.1	22.2	13.1	15.0	36
38	46.3	58.8	46.3	58.8	56.2	38
40	117.7	156.9	117.7	156.9	148.7	40
42	101.2	111.1	101.2	111.1	109.0	42
44	96.3	137.3	96.3	137.3	128.7	44
46	243.4	176.5	243.4	176.5	190.5	46
48	124.5	104.6	124.5	104.6	108.8	48
50	128.2	98.0	128.2	98.0	104.4	50
52	17.3	45.8	17.3	45.8	39.8	52
54	22.2	58.8	22.2	58.8	51.1	54
56	8.6	26.1	8.6	26.1	22.5	56
58	8.6	6.5	8.6	6.5	7.0	58
60						60
62						62
64						64
66	8.6		8.6		1.8	66
68						68
70						70
72						72
74						74
76						76
78						78
80	8.6		8.6		1.8	80
82	8.6		8.6		1.8	82
TOTAL	1000	1000	1000	1000	1000	
No. SAMPLES	2	1	2	1	3	
SAMPLING WEIGHT(kg)	126	132	126	132	258	
No. F.MEASURED	133	153	133	153	286	
MEAN LENGTH(cm)	46.7	46.3	46.7	46.3	46.4	
MEAN WEIGHT (g)	1033	954	1033	954	971	
DEPTH RANGE (m)	737/938	847/905	737/938	847/905	737/938	

TABLE XXIII : GREENLAND HALIBUT, DIV. 3O, 2007: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	APR	MAY	2nd Q. =YEAR	LENGTH GROUP
32	8.9	36.7	17.5	32
34	35.7	18.3	30.3	34
36	71.4	91.7	77.7	36
38	116.1	119.3	117.1	38
40	169.6	192.7	176.8	40
42	267.9	156.0	233.2	42
44	160.7	137.6	153.6	44
46	89.3	91.7	90.0	46
48	62.5	45.9	57.4	48
50	8.9	55.0	23.2	50
52	8.9	18.3	11.8	52
54				54
56				56
58		27.5	8.5	58
60				60
62		9.2	2.8	62
TOTAL	1000	1000	1000	
No. SAMPLES	1	1	2	
SAMPLING WEIGHT(kg)	78	81	159	
No. F.MEASURED	112	109	221	
MEAN LENGTH(cm)	42.6	43.2	42.8	
MEAN WEIGHT (g)	714	782	735	
DEPTH RANGE (m)	774/1156	680/1082	680/1156	

TABLE XXIV : ROUGHHEAD GRENADIER, DIV. 3L, 2007: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	JAN	FEB	MAR	APR	1st Q.	2nd Q.	YEAR	LENGTH GROUP
6		0.3	0.5	0.4	0.4	0.4	0.4	6
7		0.9	3.2	1.0	2.1	1.0	1.7	7
8		13.5	20.5	12.0	16.7	12.0	15.2	8
9		28.3	53.2	48.2	40.8	48.2	43.2	9
10		67.7	97.5	133.2	81.1	133.2	97.9	10
11	4.9	90.5	120.7	185.2	103.3	185.2	129.7	11
12	102.7	155.1	168.3	230.1	160.0	230.1	182.6	12
13	187.5	149.9	168.8	177.6	162.2	177.6	167.1	13
14	157.6	149.7	117.4	98.3	132.1	98.3	121.2	14
15	222.3	118.1	90.3	51.5	107.6	51.5	89.5	15
16	129.9	95.4	59.4	19.7	77.0	19.7	58.5	16
17	103.1	56.0	25.8	8.6	41.4	8.6	30.8	17
18	25.0	25.5	28.1	6.9	26.9	6.9	20.5	18
19	22.3	5.3	7.7	3.7	7.4	3.7	6.2	19
20	4.9	5.4	7.2	5.5	6.4	5.5	6.1	20
21	4.9	5.4	6.3	2.4	5.9	2.4	4.8	21
22	7.6	4.4	8.0	5.8	6.6	5.8	6.3	22
23	7.6	5.8	6.1	3.5	6.0	3.5	5.2	23
24		5.0	5.1	2.2	4.8	2.2	3.9	24
25		4.1	0.7	0.9	2.0	0.9	1.7	25
26	4.9	1.9	1.6	0.7	1.9	0.7	1.5	26
27	9.8	3.3	1.7	1.5	2.7	1.5	2.3	27
28		1.8	0.6	0.2	1.1	0.2	0.8	28
29		2.1	0.6	0.2	1.1	0.2	0.9	29
30		2.8	0.2		1.2		0.8	30
31		0.8	0.4	0.5	0.5	0.5	0.5	31
32		0.5		0.3	0.2	0.3	0.2	32
33		0.3	0.2		0.2		0.2	33
34		0.3			0.1		0.1	34
35								35
36	4.9				0.2		0.2	36
TOTAL	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	2	17	22	14	41	14	55	
SAMPLING WEIGHT(	77	1227	1752	1306	3056	1306	4362	
No. F.MEASURED	160	2331	3672	2868	6163	2868	9031	
MEAN LENGTH(cm)	15.6	14.3	13.6	12.8	14.0	12.8	13.6	
MEAN WEIGHT (g)	613	533	459	383	496	383	460	
DEPTH RANGE (m)	1048/1220	674/1516	802/1500	861/1540	674/1516	861/1540	674/1540	

TABLE XXV : ROUGHHEAD GRENADIER, DIV. 3M, 2007: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	MAR	APR	1st Q.	2nd Q.	YEAR	LENGTH GROUP
6	1.1			0.5		0.4	6
7		2.3		1.2		1.0	7
8	23.8	15.2	32.3	19.4	32.3	21.4	8
9	70.2	52.1	137.1	60.9	137.1	72.8	9
10	183.1	109.7	88.7	145.7	88.7	136.8	10
11	158.6	142.9	121.0	150.6	121.0	146.0	11
12	161.7	189.4	201.6	175.8	201.6	179.8	12
13	156.0	201.8	161.3	179.4	161.3	176.5	13
14	98.3	136.0	121.0	117.5	121.0	118.1	14
15	54.3	72.1	88.7	63.3	88.7	67.3	15
16	32.3	19.3	16.1	25.7	16.1	24.2	16
17	13.1	13.1	16.1	13.1	16.1	13.6	17
18	14.2	8.5		11.3		9.5	18
19		5.2	8.1	2.6	8.1	3.5	19
20	8.6	5.0	8.1	6.8	8.1	7.0	20
21	8.0	7.1		7.5		6.4	21
22	7.2	7.1		7.1		6.0	22
23	6.9	4.3		5.6		4.7	23
24	0.5	2.4		1.5		1.2	24
25	1.1	2.2		1.7		1.4	25
26		2.1		1.1		0.9	26
27		1.6		0.8		0.7	27
28							28
29							29
30							30
31	1.1	0.4		0.7		0.6	31
32		0.4		0.2		0.2	32
TOTAL	1000	1000	1000	1000	1000	1000	
No. SAMPLES	6	10	1	16	1	17	
SAMPLING WEIGHT(kg)	398	799	52	1196	52	1248	
No. F.MEASURED	898	1473	124	2371	124	2495	
MEAN LENGTH(cm)	12.8	13.2	12.6	13.0	12.6	12.9	
MEAN WEIGHT (g)	390	420	359	405	359	398	
DEPTH RANGE (m)	795/1211	320/1305	1046/1086	320/1305	1046/1086	320/1305	

TABLE XXVI : ROUGHHEAD GRENADIER, DIV. 3N, 2007: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB =YEAR	LENGTH GROUP
10	15.6	10
11	46.9	11
12	46.9	12
13	62.5	13
14	15.6	14
15	78.1	15
16	93.8	16
17	93.8	17
18	187.5	18
19	62.5	19
20	93.8	20
21	46.9	21
22	78.1	22
23	15.6	23
24	62.5	24
TOTAL	1000	
No. SAMPLES	1	
SAMPLING WEIGHT(kg)	70	
No. F.MEASURED	64	
MEAN LENGTH(cm)	18.0	
MEAN WEIGHT (g)	990	
DEPTH RANGE (m)	878/927	

TABLE XXVII : ROUGHHEAD GRENADIER, DIV. 3O, 2007: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	MAY =YEAR	LENGTH GROUP
7	12.0	7
8	53.9	8
9	71.9	9
10	173.7	10
11	107.8	11
12	167.7	12
13	77.8	13
14	77.8	14
15	41.9	15
16	47.9	16
17	47.9	17
18	35.9	18
19	12.0	19
20	12.0	20
21	24.0	21
22	12.0	22
23	12.0	23
24	6.0	24
25		25
26		26
27		27
28		28
29	6.0	29
TOTAL	1000	
No. SAMPLES	1	
SAMPLING WEIGHT(kg)	89	
No. F.MEASURED	167	
MEAN LENGTH(cm)	13.4	
MEAN WEIGHT (g)	481	
DEPTH RANGE (m)	680/1082	

TABLE XXVIII : WITCH FLOUNDER, DIV. 3L, 2007: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	JAN	FEB	MAR	APR	1st Q.	2nd Q.	YEAR	LENGTH GROUP
30	82.1	108.7	56.9	25.0	86.0	25.0	71.0	30
32	117.4	133.0	88.4	42.6	114.7	42.6	97.0	32
34	95.9	171.7	107.0	123.4	136.5	123.4	133.3	34
36	141.5	156.6	155.2	232.3	153.7	232.3	173.0	36
38	105.1	155.6	157.9	230.0	148.3	230.0	168.3	38
40	131.1	96.3	154.9	116.7	122.7	116.7	121.2	40
42	103.5	77.8	96.9	121.1	88.7	121.1	96.7	42
44	72.1	53.0	113.8	48.1	77.7	48.1	70.4	44
46	77.8	30.8	46.3	38.9	43.9	38.9	42.7	46
48	46.3	11.0	13.4	3.7	17.6	3.7	14.2	48
50	27.3	3.3		16.4	6.0	16.4	8.5	50
52		2.2	6.0		3.2		2.4	52
54			3.3		1.2		0.9	54
56				1.7		1.7	0.4	56
TOTAL	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	4	7	6	4	17	4	21	
SAMPLING WEIGHT(kg)	228	227	165	95	620	95	715	
No. F.MEASURED	320	437	305	223	1062	223	1285	
MEAN LENGTH(cm)	39.5	37.6	39.3	39.2	38.5	39.2	38.7	
MEAN WEIGHT (g)	639	566	627	619	600	619	604	
DEPTH RANGE (m)	966/1300	853/1467	1003/1475	965/1290	853/1475	965/1290	853/1475	

TABLE XXIX : WITCH FLOUNDER, DIV. 3M, 2007: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	JAN	FEB	MAR	APR	1st Q.	2nd Q.	YEAR	LENGTH GROUP
26		10.9		5.4	4.8	5.4	5.0	26
28			4.4		1.8		1.2	28
30	12.5	86.8	24.9	10.8	50.4	10.8	37.0	30
32	50.0	69.6	30.8	27.7	50.6	27.7	42.9	32
34	175.0	186.8	83.6	69.9	142.2	69.9	117.7	34
36	262.5	194.4	135.6	117.9	179.7	117.9	158.8	36
38	237.5	164.2	149.1	228.5	168.4	228.5	188.7	38
40	175.0	121.9	183.4	184.3	155.1	184.3	165.0	40
42	50.0	67.8	195.3	182.0	118.3	182.0	139.8	42
44	12.5	34.6	120.2	95.5	67.1	95.5	76.7	44
46	25.0	33.6	59.1	37.2	43.0	37.2	41.0	46
48		7.3	13.5	10.6	8.8	10.6	9.4	48
50		22.0		9.8	9.7	9.8	9.7	50
52				20.4		20.4	6.9	52
TOTAL	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	3	4	3	8	3	11	
SAMPLING WEIGHT(kg)	50	81	97	81	228	81	309	
No. F.MEASURED	80	169	236	182	485	182	667	
MEAN LENGTH(cm)	38.2	37.9	40.4	40.6	39.0	40.6	39.6	
MEAN WEIGHT (g)	581	579	665	674	615	674	635	
DEPTH RANGE (m)	916/946	632/1641	454/1234	450/1086	454/1641	450/1086	450/1641	

TABLE XXX-A : WITCH FLOUNDER, DIV. 3N, 2007: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	OCT	1st Q.	4th Q.	YEAR	LENGTH GROUP
24	28.6	25.0	28.6	25.0	27.4	24
26	57.1	25.0	57.1	25.0	47.0	26
28	28.6	12.5	28.6	12.5	23.5	28
30	114.3	37.5	114.3	37.5	90.1	30
32	85.7	25.0	85.7	25.0	66.6	32
34	171.4	250.0	171.4	250.0	196.2	34
36	200.0	37.5	200.0	37.5	148.7	36
38	200.0	50.0	200.0	50.0	152.7	38
40	57.1	312.5	57.1	312.5	137.7	40
42	28.6	112.5	28.6	112.5	55.0	42
44	28.6	25.0	28.6	25.0	27.4	44
46		50.0		50.0	15.8	46
48		12.5		12.5	3.9	48
50		25.0		25.0	7.9	50
TOTAL	1000	1000	1000	1000	1000	
No. SAMPLES	1	1	1	1	2	
SAMPLING WEIGHT(kg)	10	47	10	47	57	
No. F.MEASURED	35	80	35	80	115	
MEAN LENGTH(cm)	35.5	38.8	35.5	38.8	36.5	
MEAN WEIGHT (g)	481	596	481	596	517	
DEPTH RANGE (m)	878/927	57/63	878/927	57/63	57/927	

TABLE XXX-B : WITCH FLOUNDER, DIV. 3N, 2007: length composition (0/000) of the 280mm trawl catches.

LENGTH GROUP	APR =YEAR	LENGTH GROUP
30	11.6	30
32	11.6	32
34	93.0	34
36	139.5	36
38	104.7	38
40	255.8	40
42	244.2	42
44	69.8	44
46	34.9	46
48	11.6	48
50		50
52	23.3	52
TOTAL	1000	
No. SAMPLES	1	
SAMPLING WEIGHT(kg)	44	
No. F.MEASURED	86	
MEAN LENGTH(cm)	40.8	
MEAN WEIGHT (g)	662	
DEPTH RANGE (m)	331/366	

TABLE XXXI-A : WITCH FLOUNDER, DIV. 3O, 2007: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	APR	MAY	OCT	NOV	DEC	1st Q.	2nd Q.	4th Q.	YEAR	LENGTH GROUP
24		3.0						1.5		0.6	24
26		5.1		19.4	27.5			2.4	21.4	7.9	26
28	6.3	10.1	8.4	60.1	88.6		6.3	9.2	68.0	27.3	28
30	31.6	65.4	33.6	100.1	126.7		31.6	48.9	102.8	61.8	30
32	57.0	135.5	16.8	100.8	140.4		57.0	74.0	109.9	81.2	32
34	145.6	146.6	84.0	100.1	112.0	12.5	145.6	114.2	96.8	116.5	34
36	253.2	198.7	134.5	78.9	106.1	62.5	253.2	165.4	90.7	163.6	36
38	259.5	144.7	226.9	90.4	114.3	125.0	259.5	187.3	105.9	179.4	38
40	139.2	123.9	159.7	95.8	87.0	212.5	139.2	142.5	103.7	129.2	40
42	50.6	48.8	184.9	97.2	53.9	212.5	50.6	119.4	87.8	91.9	42
44	38.0	73.8	92.4	89.2	67.4	187.5	38.0	83.4	88.6	73.7	44
46	6.3	31.3	8.4	94.9	42.3	125.0	6.3	19.5	71.9	32.9	46
48	6.3	8.3	25.2	53.2	31.6	50.0	6.3	17.1	42.1	22.4	48
50		4.7	16.8	19.2	2.2	12.5		11.0	10.0	7.9	50
52	6.3		8.4	0.7			6.3	4.4	0.3	3.6	52
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	3	1	9	5	1	1	4	15	20	
SAMPLING WEIGHT(kg)	56	120	52	468	210	63	56	172	741	969	
No. F.MEASURED	158	290	119	702	400	80	158	409	1182	1749	
MEAN LENGTH(cm)	38.2	37.8	40.2	38.9	36.7	42.9	38.2	39.0	38.2	38.5	
MEAN WEIGHT (g)	564	555	641	607	530	743	564	599	583	585	
DEPTH RANGE (m)	588/664	113/1156	680/1082	288/466	71/339	285/310	588/664	113/1156	71/466	71/1156	

TABLE XXXI-B : WITCH FLOUNDER, DIV. 3O, 2007: length composition (0/000) of the 280mm trawl catches.

LENGTH GROUP	MAY =YEAR	LENGTH GROUP
30	18.4	30
32	67.9	32
34	93.1	34
36	224.1	36
38	211.8	38
40	105.2	40
42	117.6	42
44	62.1	44
46	48.7	46
48	24.2	48
50	15.0	50
52	3.2	52
54	2.9	54
56	5.8	56
TOTAL	1000	
No. SAMPLES	2	
SAMPLING WEIGHT(kg)	141	
No. F.MEASURED	330	
MEAN LENGTH(cm)	39.7	
MEAN WEIGHT (g)	624	
DEPTH RANGE (m)	110/157	

TABLE XXXII-A : WHITE HAKE, DIV. 3O, 2007: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	APR	MAY	1st Q.	2nd Q.	YEAR	LENGTH GROUP
26			8.1		2.6	2.5	26
27							27
28			16.2		5.3	5.0	28
29							29
30							30
31	24.4		8.1	24.4	2.6	3.9	31
32			15.3		5.0	4.7	32
33		5.3	15.3		8.6	8.1	33
34			8.1		2.6	2.5	34
35		33.6	16.2		27.9	26.3	35
36		12.5			8.4	8.0	36
37	48.8	30.3	16.2	48.8	25.7	27.0	37
38	24.4	67.9	31.5	24.4	56.0	54.2	38
39	24.4	37.6	63.0	24.4	45.9	44.7	39
40	24.4	135.9	62.2	24.4	111.8	106.8	40
41	122.0	114.0	71.1	122.0	100.0	101.2	41
42	24.4	67.9	16.2	24.4	51.0	49.5	42
43	73.2	65.9	31.5	73.2	54.7	55.7	43
44	24.4	97.4	55.8	24.4	83.8	80.4	44
45	97.6	23.0	92.9	97.6	45.9	48.9	45
46	73.2	48.1	30.7	73.2	42.4	44.2	46
47	24.4	23.0	69.4	24.4	38.2	37.4	47
48		62.7	15.3		47.2	44.5	48
49	48.8	17.8	46.0	48.8	27.0	28.3	49
50	24.4	12.5	108.2	24.4	43.8	42.7	50
51	73.2	12.5	23.4	73.2	16.1	19.4	51
52	97.6		30.7	97.6	10.0	15.1	52
53	24.4	37.6	8.1	24.4	28.0	27.7	53
54	48.8	5.3	15.3	48.8	8.6	10.9	54
55			30.7		10.0	9.5	55
56		12.5			8.4	8.0	56
57	24.4	12.5		24.4	8.4	9.4	57
58		10.5	31.5		17.4	16.4	58
59	24.4	12.5	38.8	24.4	21.1	21.3	59
60	48.8			48.8		2.8	60
61							61
62			8.1		2.6	2.5	62
63		30.3			20.4	19.2	63
64			16.2		5.3	5.0	64
65		10.5			7.1	6.7	65
TOTAL	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	2	2	1	4	5	
SAMPLING WEIGHT(kg)	48	106	92	48	198	246	
No. F.MEASURED	41	103	86	41	189	230	
MEAN LENGTH(cm)	47.2	44.7	46.0	47.2	45.1	45.2	
MEAN WEIGHT (g)	1251	1071	1186	1251	1109	1117	
DEPTH RANGE (m)	290/391	113/1011	361/526	290/391	113/1011	113/1011	

TABLE XXXII-B : WHITE HAKE, DIV. 3O, 2007: length composition (0/000) of the 280mm trawl catches.

LENGTH GROUP	APR =YEAR	LENGTH GROUP
29	20.4	29
30		30
31		31
32	20.4	32
33		33
34		34
35		35
36		36
37		37
38		38
39		39
40	20.4	40
41	40.8	41
42	61.2	42
43		43
44	102.0	44
45	61.2	45
46	81.6	46
47	61.2	47
48	40.8	48
49	81.6	49
50	40.8	50
51	40.8	51
52	142.9	52
53	40.8	53
54		54
55	20.4	55
56	40.8	56
57		57
58		58
59		59
60	20.4	60
61	20.4	61
62		62
63	40.8	63
TOTAL	1000	

No. SAMPLES	1
SAMPLING WEIGHT(kg)	62
No. F.MEASURED	49
MEAN LENGTH(cm)	48.8
MEAN WEIGHT (g)	1382
DEPTH RANGE (m)	137/137

TABLE XXXIII : THORNY SKATE, DIV. 3L, 2007: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	MAR =YEAR	LENGTH GROUP
29	30.9	29
30		30
31		31
32	36.1	32
33		33
34	67.0	34
35	36.1	35
36	61.8	36
37		37
38	170.2	38
39	97.9	39
40	61.8	40
41	206.3	41
42	72.2	42
43	61.8	43
44	67.0	44
45		45
46	30.9	46
TOTAL	1000	

No. SAMPLES	2
SAMPLING WEIGHT(kg)	122
No. F.MEASURED	30
MEAN LENGTH(cm)	39.6
DEPTH RANGE (m)	1046/1347

TABLE XXXIV : THORNY SKATE, DIV. 3M, 2007: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	MAR	APR	MAY	1st Q.	2nd Q.	YEAR	LENGTH GROUP
24			31.2			25.6	11.3	24
25								25
26								26
27			31.2	58.8		36.2	16.0	27
28				58.8		10.7	4.7	28
29								29
30	16.7	15.1	71.6	117.6	15.7	79.9	44.1	30
31	14.1	29.3	31.2	117.6	23.4	46.9	33.8	31
32	16.7	31.3	102.8	58.8	25.6	94.8	56.2	32
33	59.0	50.1	31.2	117.6	53.6	46.9	50.6	33
34	47.5	45.5	31.2		46.3	25.6	37.1	34
35	58.9	20.8	49.5		35.7	40.5	37.8	35
36	101.2	115.4	58.7	176.5	109.8	80.0	96.7	36
37	78.3	75.0	62.4		76.3	51.1	65.2	37
38	56.3	116.3	139.4	117.6	92.9	135.5	111.7	38
39	64.2	51.2	40.4	58.8	56.2	43.7	50.7	39
40	103.8	175.2	161.5	58.8	147.4	142.9	145.4	40
41	140.7	102.5	99.0	58.8	117.4	91.8	106.1	41
42	107.2	39.6	40.4		65.9	33.1	51.4	42
43	67.7	50.3	9.2		57.1	7.5	35.2	43
44	14.1	28.5	9.2		22.9	7.5	16.1	44
45	39.6	29.3			33.3		18.6	45
46	14.1	9.5			11.3		6.3	46
47		15.1			9.2		5.1	47
TOTAL	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	3	4	2	1	7	3	10	
SAMPLING WEIGHT(kg)	209	338	171	45	547	216	763	
No. F.MEASURED	57	91	49	17	148	66	214	
MEAN LENGTH(cm)	39.2	38.9	36.6	34.6	39.0	36.3	37.8	
DEPTH RANGE (m)	466/1211	362/1112	424/665	412/445	362/1211	412/665	362/1211	

TABLE XXXV-A : THORNY SKATE, DIV. 3N, 2007: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	APR =YEAR	LENGTH GROUP
30	0.9	30
31	55.1	31
32	54.2	32
33	56.0	33
34		34
35	28.9	35
36	112.0	36
37	1.7	37
38	193.4	38
39	56.0	39
40	192.5	40
41	138.2	41
42	28.9	42
43	27.1	43
44	28.0	44
45		45
46	27.1	46
TOTAL	1000	
No. SAMPLES	2	
SAMPLING WEIGHT(kg)	231	
No. F.MEASURED	63	
MEAN LENGTH(cm)	38.7	
DEPTH RANGE (m)	48/905	

TABLE XXXV-B : THORNY SKATE, DIV. 3N, 2007: length composition (0/000) of the 280mm trawl catches.

LENGTH GROUP	FEB	APR	1st Q.	2nd Q.	YEAR	LENGTH GROUP
25	16.7		16.7		3.0	25
26						26
27	16.7	28.6	16.7	28.6	26.4	27
28	33.3		33.3		6.0	28
29	16.7		16.7		3.0	29
30	83.3		83.3		14.9	30
31	16.7	28.6	16.7	28.6	26.4	31
32	66.7	57.1	66.7	57.1	58.8	32
33	16.7	28.6	16.7	28.6	26.4	33
34	33.3	85.7	33.3	85.7	76.4	34
35	100.0	28.6	100.0	28.6	41.3	35
36	116.7	114.3	116.7	114.3	114.7	36
37	50.0	57.1	50.0	57.1	55.9	37
38	116.7	200.0	116.7	200.0	185.1	38
39	66.7	57.1	66.7	57.1	58.8	39
40	150.0	114.3	150.0	114.3	120.7	40
41	33.3	85.7	33.3	85.7	76.4	41
42	16.7		16.7		3.0	42
43	16.7	57.1	16.7	57.1	49.9	43
44	16.7	28.6	16.7	28.6	26.4	44
45	16.7	28.6	16.7	28.6	26.4	45
TOTAL	1000	1000	1000	1000	1000	
No. SAMPLES	1	1	1	1	2	
SAMPLING WEIGHT(kg)	187	124	187	124	311	
No. F.MEASURED	60	35	60	35	95	
MEAN LENGTH(cm)	36.5	38.0	36.5	38.0	37.7	
DEPTH RANGE (m)	53/57	53/54	53/57	53/54	53/57	

TABLE XXXVI-A : THORNY SKATE, DIV. 3O, 2007: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	APR =YEAR	LENGTH GROUP
24	24.5	24
25		25
26		26
27		27
28	5.3	28
29		29
30	43.6	30
31	24.5	31
32	92.6	32
33	5.3	33
34	24.5	34
35	48.9	35
36	141.5	36
37	29.8	37
38	166.0	38
39	73.4	39
40	138.2	40
41	97.9	41
42	43.6	42
43	24.5	43
44	15.9	44
TOTAL	1000	
No. SAMPLES	2	
SAMPLING WEIGHT(kg)	290	
No. F.MEASURED	84	
MEAN LENGTH(cm)	37.5	
DEPTH RANGE (m)	113/1011	

TABLE XXXVI-B : THORNY SKATE, DIV. 3O, 2007: length composition (0/000) of the 280mm trawl catches.

LENGTH GROUP	APR	MAY	2nd Q. =YEAR	LENGTH GROUP
26	28.6		3.8	26
27		20.0	17.3	27
28	28.6		3.8	28
29	28.6		3.8	29
30	28.6	40.0	38.5	30
31	85.7	20.0	28.7	31
32	57.1	80.0	77.0	32
33	28.6	60.0	55.8	33
34		20.0	17.3	34
35	57.1	60.0	59.6	35
36	57.1	160.0	146.3	36
37	57.1	20.0	24.9	37
38	200.0	160.0	165.3	38
39	28.6	40.0	38.5	39
40	85.7	160.0	150.1	40
41	114.3	80.0	84.6	41
42	57.1	40.0	42.3	42
43	28.6	40.0	38.5	43
44	28.6		3.8	44
TOTAL	1000	1000	1000	
No. SAMPLES	1	1	2	
SAMPLING WEIGHT(kg)	118	170	288	
No. F.MEASURED	35	50	85	
MEAN LENGTH(cm)	37.0	37.4	37.4	
DEPTH RANGE (m)	137/137	110/143	110/143	

TABLE XXXVII : SPINYTAIL SKATE, DIV. 3L, 2007: length composition (0/000) of the 130mm trawl catches

LENGTH GROUP	FEB	MAR	APR	1st Q.	2nd Q.	YEAR	LENGTH GROUP
23	26.3			7.6		5.0	23
24							24
25							25
26							26
27							27
28		10.6		7.6		5.0	28
29							29
30	26.3			7.6		5.0	30
31							31
32							32
33		10.6		7.6		5.0	33
34		21.3		15.2		10.0	34
35	26.3	10.6		15.2		10.0	35
36							36
37	52.6	21.3	14.5	30.3	14.5	24.9	37
38	26.3	42.6		37.9		24.9	38
39			58.0		58.0	19.9	39
40							40
41	52.6		14.5	15.2	14.5	14.9	41
42		53.2	14.5	37.9	14.5	29.9	42
43	26.3	10.6		15.2		10.0	43
44	52.6	31.9	58.0	37.9	58.0	44.8	44
45	26.3	10.6		15.2		10.0	45
46	52.6	31.9	14.5	37.9	14.5	29.9	46
47		31.9	43.5	22.7	43.5	29.9	47
48		21.3	14.5	15.2	14.5	14.9	48
49	26.3	31.9	29.0	30.3	29.0	29.9	49
50	52.6	31.9	43.5	37.9	43.5	39.8	50
51		53.2	29.0	37.9	29.0	34.8	51
52	78.9	10.6	43.5	30.3	43.5	34.8	52
53	26.3	21.3	14.5	22.7	14.5	19.9	53
54	105.3	63.8	14.5	75.8	14.5	54.7	54
55		31.9	43.5	22.7	43.5	29.9	55
56	131.6	31.9		60.6		39.8	56
57	26.3	31.9	58.0	30.3	58.0	39.8	57
58		10.6	14.5	7.6	14.5	10.0	58
59	52.6	10.6		22.7		14.9	59
60		63.8		45.5		29.9	60
61		21.3	72.5	15.2	72.5	34.8	61
62	26.3	42.6	43.5	37.9	43.5	39.8	62
63	26.3	42.6	29.0	37.9	29.0	34.8	63
64		10.6	29.0	7.6	29.0	14.9	64
65	26.3	10.6		15.2		10.0	65
66		21.3	58.0	15.2	58.0	29.9	66
67	26.3	21.3		22.7		14.9	67
68	26.3	31.9	43.5	30.3	43.5	34.8	68
69		10.6		7.6		5.0	69
70		31.9	58.0	22.7	58.0	34.8	70
71		21.3	43.5	15.2	43.5	24.9	71
72		10.6	29.0	7.6	29.0	14.9	72
73		10.6	43.5	7.6	43.5	19.9	73
74		10.6	14.5	7.6	14.5	10.0	74
75							75
76			14.5		14.5	5.0	76
TOTAL	1000	1000	1000	1000	1000	1000	
No. SAMPLES	3	7	6	10	6	16	
SAMPLING WEIGHT(kg)	202	567	493	769	493	1261	
No. F.MEASURED	38	94	69	132	69	201	
MEAN LENGTH(cm)	50.6	54.4	58.0	53.3	58.0	55.0	
DEPTH RANGE (m)	1112/1516	810/1500	1007/1540	810/1516	1007/1540	810/1540	

TABLE XXXVIII : SPINYTAIL SKATE, DIV. 3M, 2007: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	MAR	APR	1st Q.	2nd Q.	YEAR	LENGTH GROUP
26	29.4			11.4		9.8	26
27							27
28							28
29	29.4	18.5		22.7		19.6	29
30							30
31							31
32	58.8			22.7		19.6	32
33		18.5		11.4		9.8	33
34		18.5		11.4		9.8	34
35							35
36	58.8	37.0		45.5		39.2	36
37	29.4	18.5		22.7		19.6	37
38		37.0		22.7		19.6	38
39		18.5		11.4		9.8	39
40							40
41	29.4	18.5		22.7		19.6	41
42	58.8	55.6	71.4	56.8	71.4	58.8	42
43	29.4			11.4		9.8	43
44	117.6	55.6	71.4	79.5	71.4	78.4	44
45		55.6		34.1		29.4	45
46	29.4	18.5		22.7		19.6	46
47	29.4	18.5		22.7		19.6	47
48	88.2	37.0	71.4	56.8	71.4	58.8	48
49	29.4		71.4	11.4	71.4	19.6	49
50	58.8			22.7		19.6	50
51	58.8	18.5		34.1		29.4	51
52	117.6	37.0	71.4	68.2	71.4	68.6	52
53			285.7		285.7	39.2	53
54	29.4		71.4	11.4	71.4	19.6	54
55	58.8	37.0		45.5		39.2	55
56		37.0	71.4	22.7	71.4	29.4	56
57	29.4	55.6	71.4	45.5	71.4	49.0	57
58							58
59		18.5		11.4		9.8	59
60			71.4		71.4	9.8	60
61		18.5		11.4		9.8	61
62		55.6		34.1		29.4	62
63	29.4			11.4		9.8	63
64							64
65			71.4		71.4	9.8	65
66		74.1		45.5		39.2	66
67							67
68		18.5		11.4		9.8	68
69		37.0		22.7		19.6	69
70		37.0		22.7		19.6	70
71		37.0		22.7		19.6	71
72							72
73		37.0		22.7		19.6	73
74							74
75		18.5		11.4		9.8	75
76		18.5		11.4		9.8	76
77		18.5		11.4		9.8	77
TOTAL	1000	1000	1000	1000	1000	1000	
No. SAMPLES	2	4	1	6	1	7	
SAMPLING WEIGHT(kg)	147	344	74	492	74	566	
No. F.MEASURED	34	54	14	88	14	102	
MEAN LENGTH(cm)	46.1	54.6	53.3	51.4	53.3	51.6	
DEPTH RANGE (m)	1073/1164	589/1305	1046/1086	589/1305	1046/1086	589/1305	

TABLE XXXIX : SPINYTAIL SKATE, DIV. 3N, 2007: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	APR =YEAR	LENGTH GROUP
37	83.3	37
38		38
39	83.3	39
40		40
41		41
42		42
43		43
44	83.3	44
45		45
46		46
47	83.3	47
48		48
49		49
50		50
51		51
52		52
53		53
54		54
55	83.3	55
56		56
57		57
58	83.3	58
59	83.3	59
60		60
61	83.3	61
62	83.3	62
63		63
64	83.3	64
65		65
66		66
67		67
68		68
69	83.3	69
70		70
71	83.3	71
TOTAL	1000	

No. SAMPLES	1
SAMPLING WEIGHT(kg)	75
No. F.MEASURED	12
MEAN LENGTH(cm)	56.0
DEPTH RANGE (m)	847/905

TABLE XL : MONKFISH, DIV. 3O, 2007: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB =YEAR	LENGTH GROUP
43	71.4	43
44		44
45		45
46	142.9	46
47	142.9	47
48		48
49		49
50	71.4	50
51		51
52		52
53	142.9	53
54	71.4	54
55		55
56		56
57		57
58	71.4	58
59		59
60	142.9	60
61	71.4	61
62		62
63		63
64		64
65	71.4	65
TOTAL	1000	

No. SAMPLES	1
SAMPLING WEIGHT(kg)	50
No. F.MEASURED	14
MEAN LENGTH(cm)	53.6
MEAN WEIGHT (g)	3726
DEPTH RANGE (m)	290/391

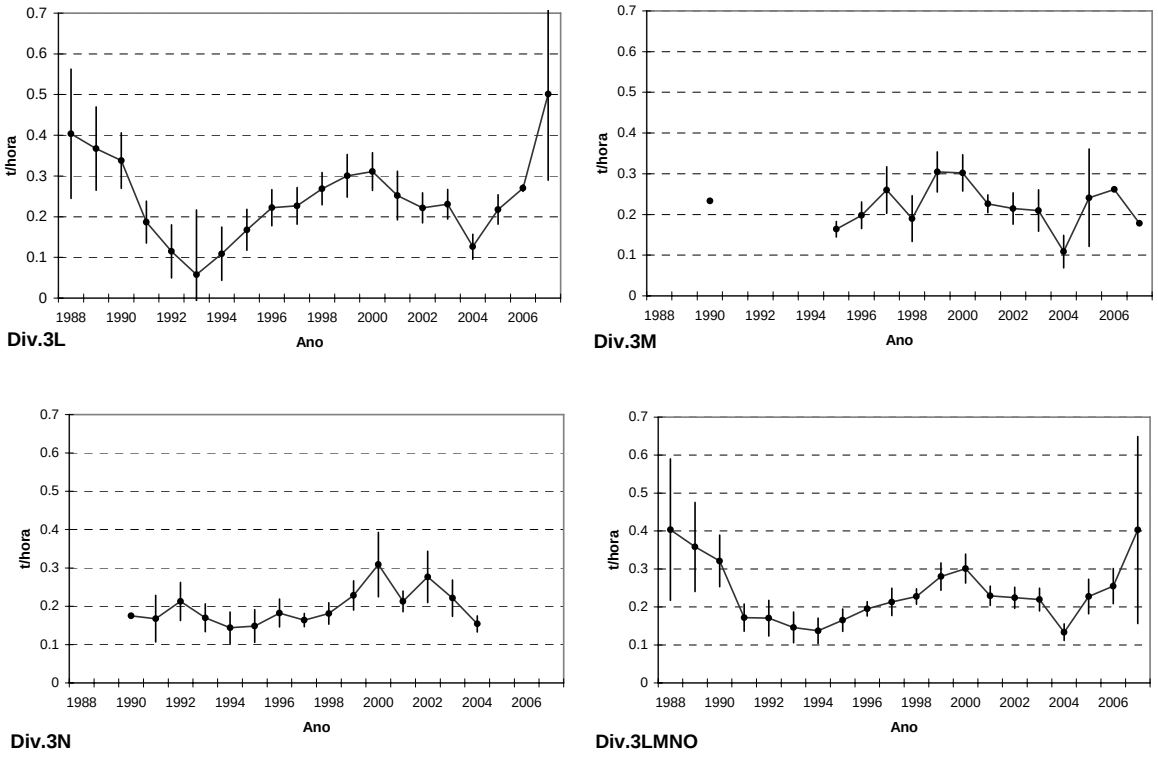
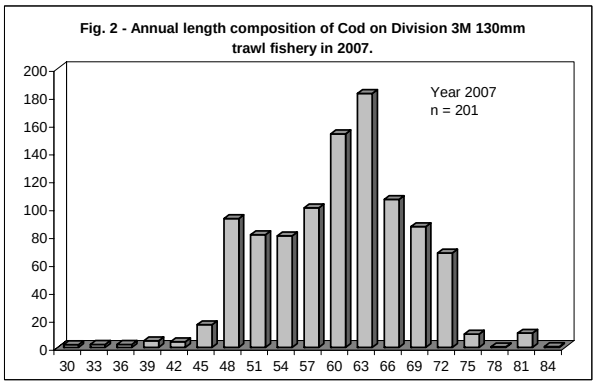
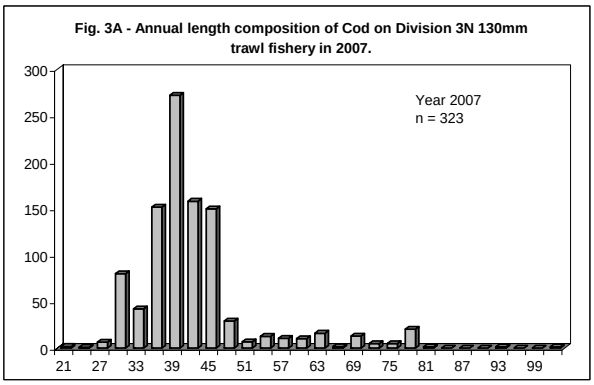
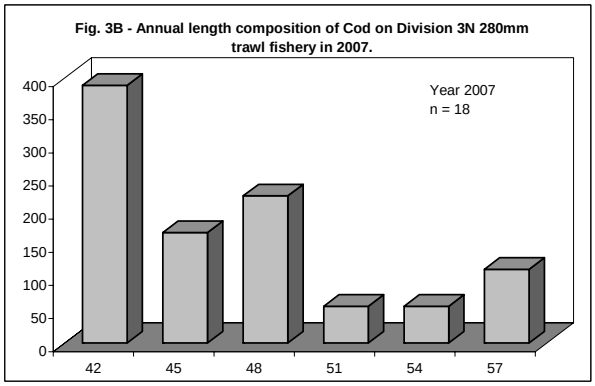


Fig. 1: Greenland halibut trawl catch rates by division, 1988 - 2007.







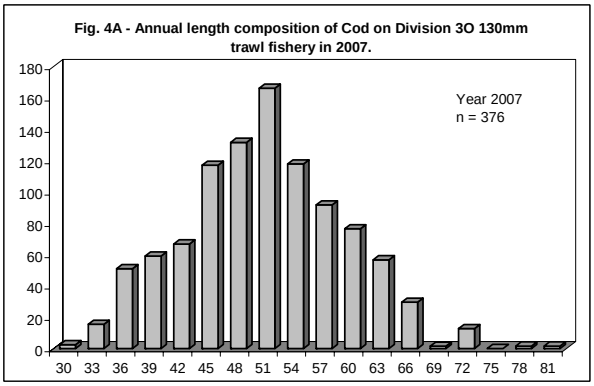


Fig. 4B - Annual length composition of Cod on Division 3O 280mm trawl fishery in 2007.

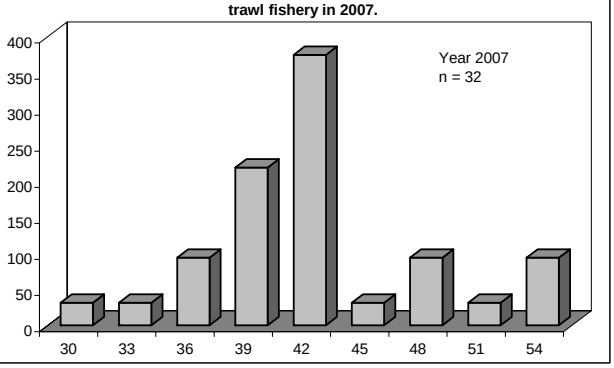


Fig. 5 - Annual length composition of Redfish (*S. mentella*) on Division 3L 130mm trawl fishery in 2007.

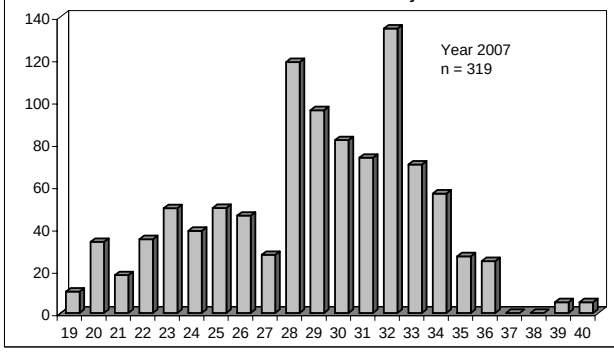


Fig. 6 - Annual length composition of Redfish (*S. mentella*) on Division 3M 130mm trawl fishery in 2007.

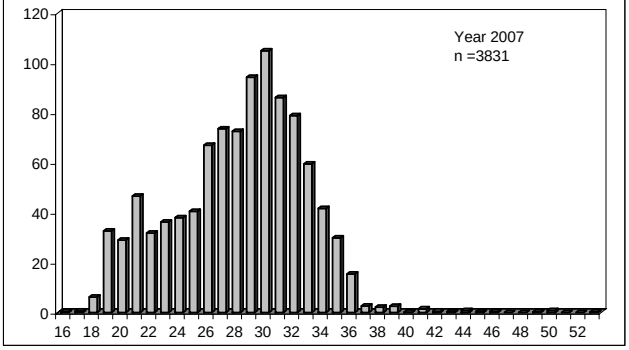


Fig. 7A - Annual length composition of Redfish (*S. mentella*) on Division 3N 130mm trawl fishery in 2007.

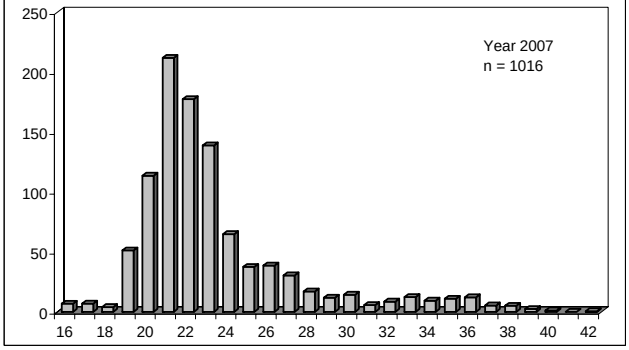


Fig.7B - Annual length composition of Redfish (*S. mentella*) on Division 3N 280mm trawl fishery in 2007.

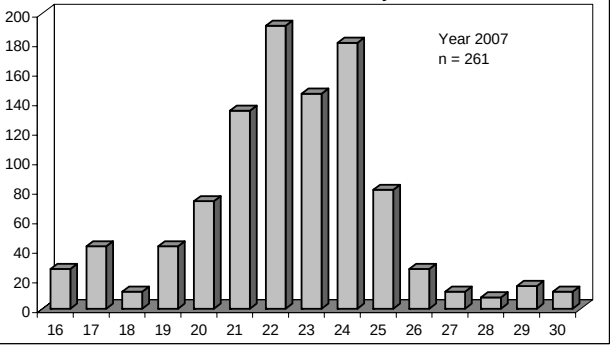


Fig. 8 - Annual length composition of Redfish (*S. mentella*) on Division 3O 130mm trawl fishery in 2007.

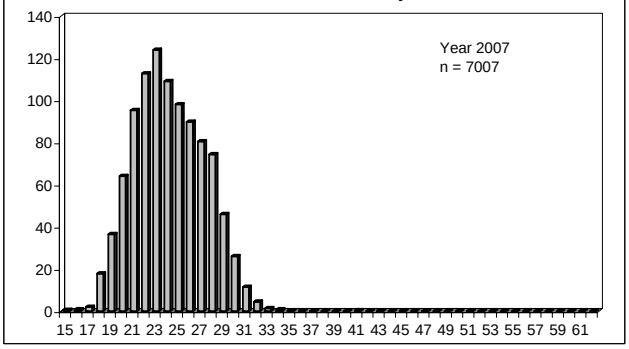


Fig. 9 - Annual length composition of Redfish (*S. marinus*) on Division 3M 130mm trawl fishery in 2007.

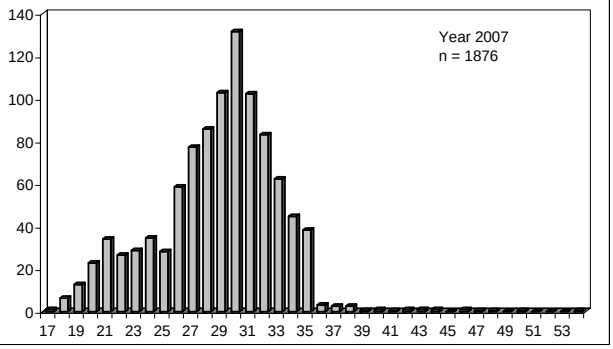
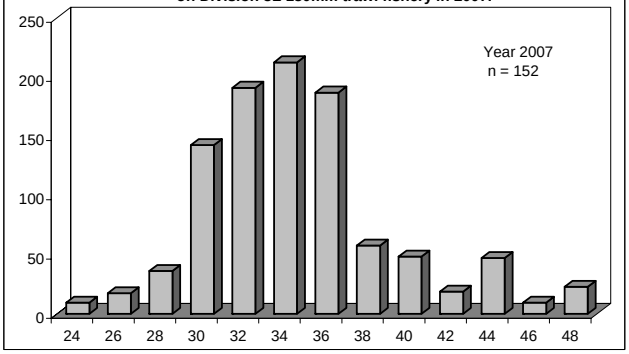


Fig. 10 - Annual length composition of American plaice on Division 3L 130mm trawl fishery in 2007.



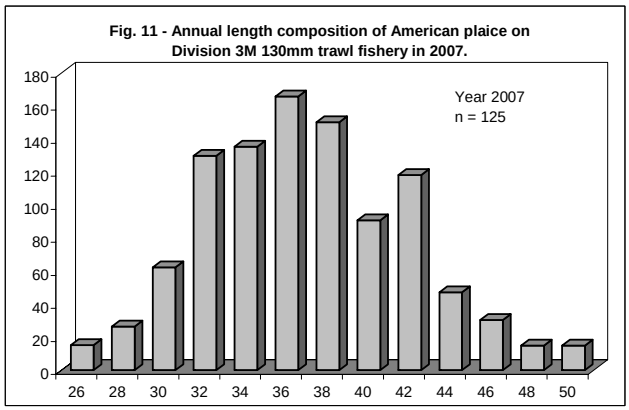


Fig. 11 - Annual length composition of American plaice on Division 3M 130mm trawl fishery in 2007.
Year 2007
n = 125
0 20 40 60 80 100 120 140 160 180
26 28 30 32 34 36 38 40 42 44 46 48 50

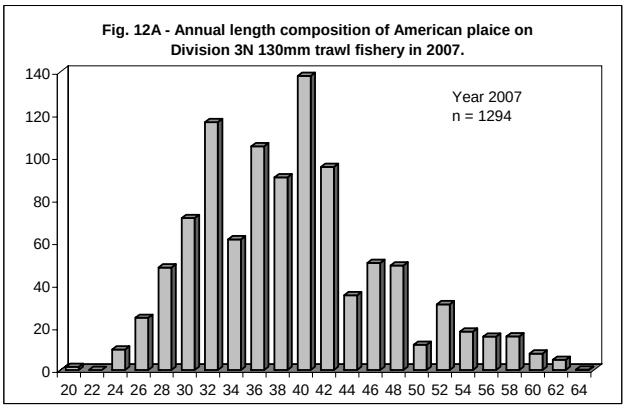


Fig. 12A - Annual length composition of American plaice on Division 3N 130mm trawl fishery in 2007.
Year 2007
n = 1294
0 20 40 60 80 100 120 140
20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64

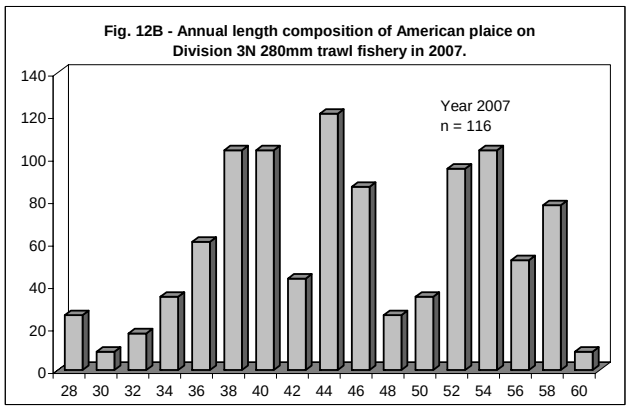


Fig. 12B - Annual length composition of American plaice on Division 3N 280mm trawl fishery in 2007.
Year 2007
n = 116
0 20 40 60 80 100 120 140
28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60

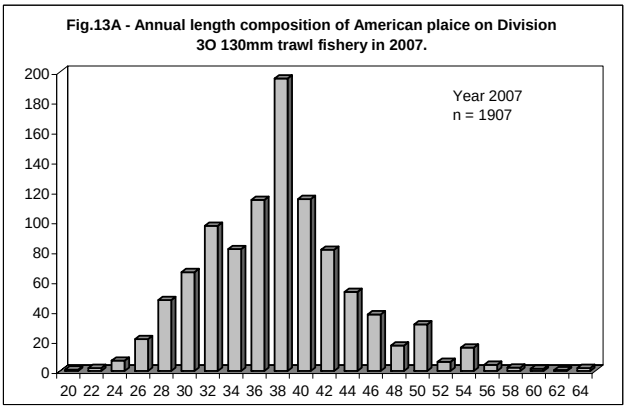


Fig.13A - Annual length composition of American plaice on Division 3O 130mm trawl fishery in 2007.
Year 2007
n = 1907
0 20 40 60 80 100 120 140 160 180 200
20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64

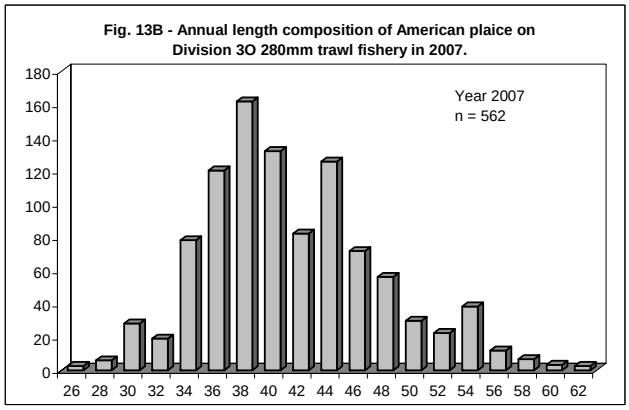


Fig. 13B - Annual length composition of American plaice on Division 3O 280mm trawl fishery in 2007.
Year 2007
n = 562
0 20 40 60 80 100 120 140 160 180
26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62

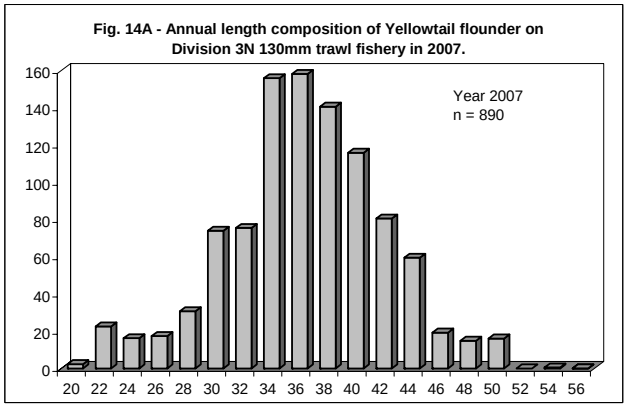


Fig. 14A - Annual length composition of Yellowtail flounder on Division 3N 130mm trawl fishery in 2007.
Year 2007
n = 890
0 20 40 60 80 100 120 140 160
20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56

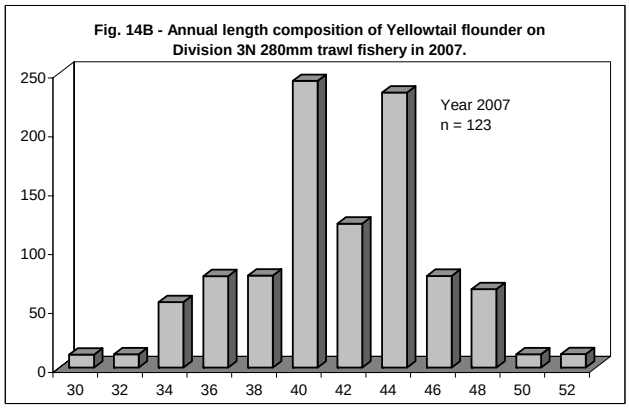


Fig. 14B - Annual length composition of Yellowtail flounder on Division 3N 280mm trawl fishery in 2007.
Year 2007
n = 123
0 50 100 150 200 250
30 32 34 36 38 40 42 44 46 48 50 52

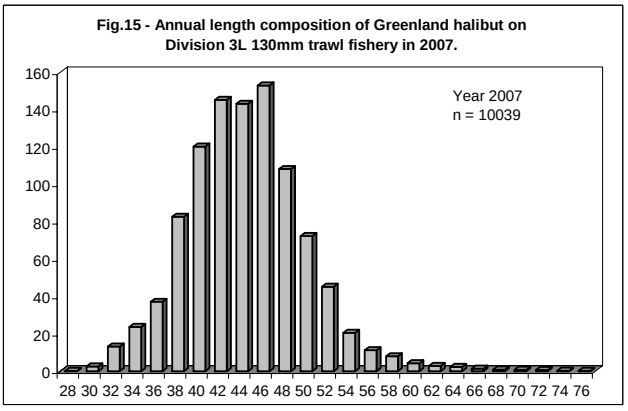


Fig.15 - Annual length composition of Greenland halibut on Division 3L 130mm trawl fishery in 2007.
Year 2007
n = 10039
0 20 40 60 80 100 120 140 160
28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76

Fig. 16 - Annual length composition of Greenland halibut on Division 3M 130mm trawl fishery in 2007.

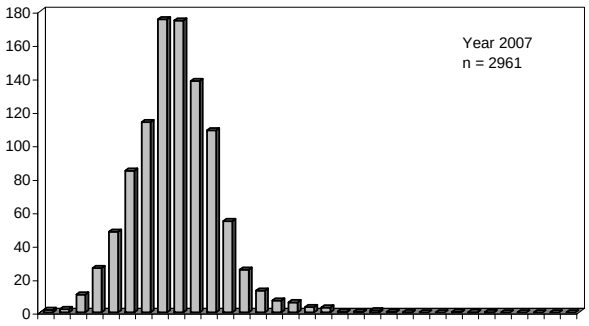


Fig. 17 - Annual length composition of Greenland halibut on Division 3N 130mm trawl fishery in 2007.

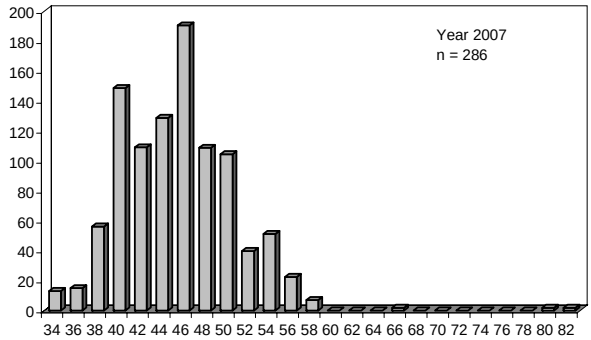


Fig. 18 - Annual length composition of Greenland halibut on Division 3O 130mm trawl fishery in 2007.

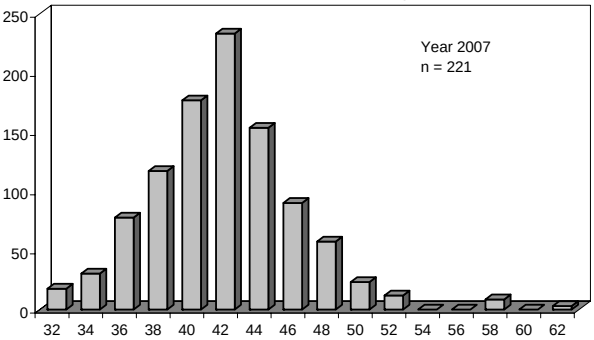


Fig.19 - Annual length composition of Roughhead grenadier on Division 3L 130mm trawl fishery in 2007.

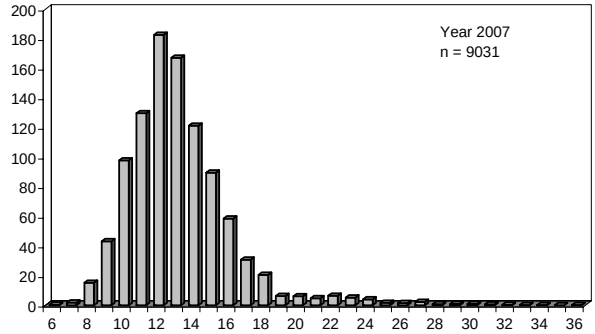


Fig. 20 - Annual length composition of Roughhead grenadier on Division 3M 130mm trawl fishery in 2007.

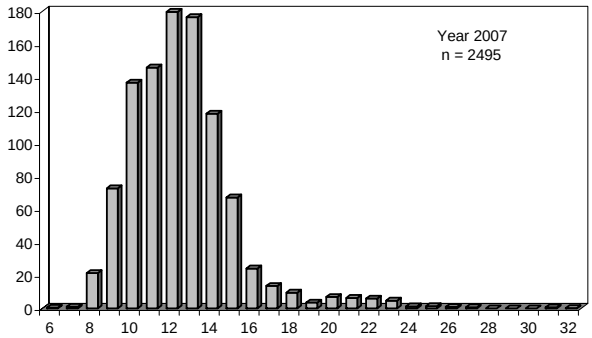


Fig. 21 - Annual length composition of Roughhead grenadier on Division 3N 130mm trawl fishery in 2007.

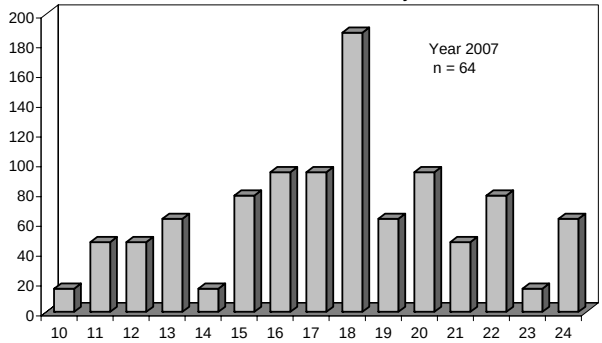


Fig. 22 - Annual length composition of Roughhead grenadier on Division 3O 130mm trawl fishery in 2007.

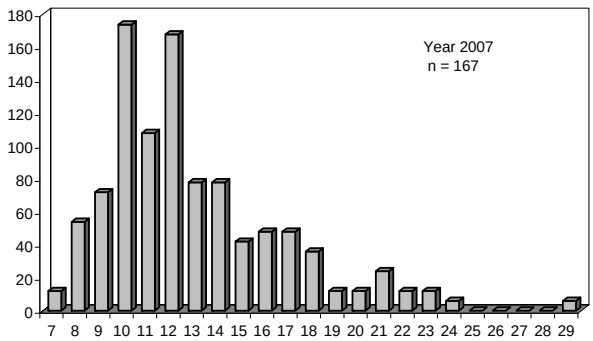
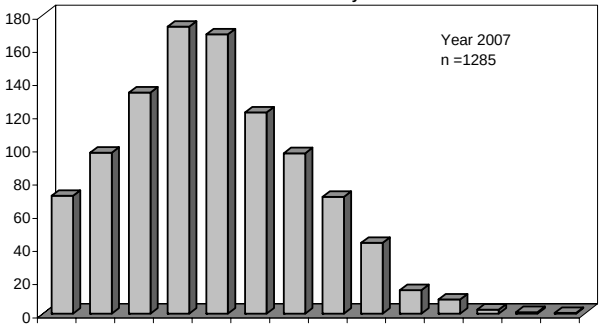


Fig. 23 - Annual length composition of Witch flounder on Division 3L 130mm trawl fishery in 2007.



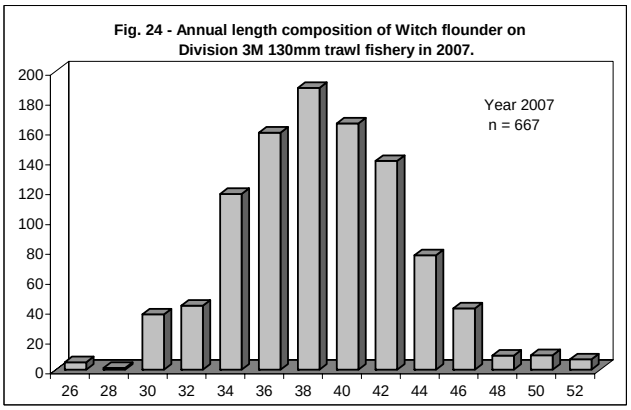


Fig. 24 - Annual length composition of Witch flounder on Division 3M 130mm trawl fishery in 2007.

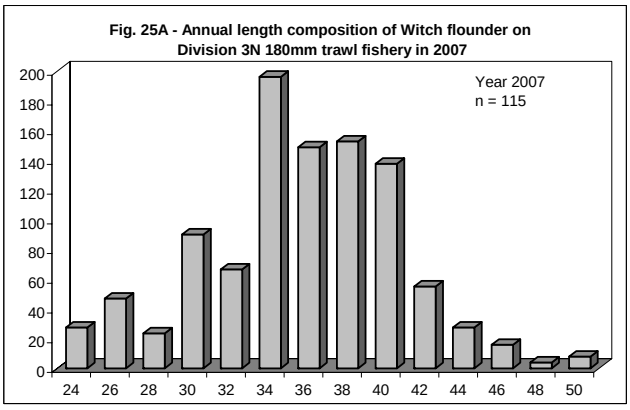


Fig. 25A - Annual length composition of Witch flounder on Division 3N 180mm trawl fishery in 2007

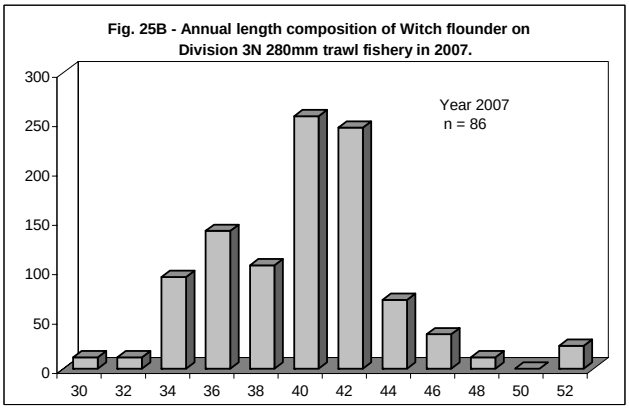


Fig. 25B - Annual length composition of Witch flounder on Division 3N 280mm trawl fishery in 2007.

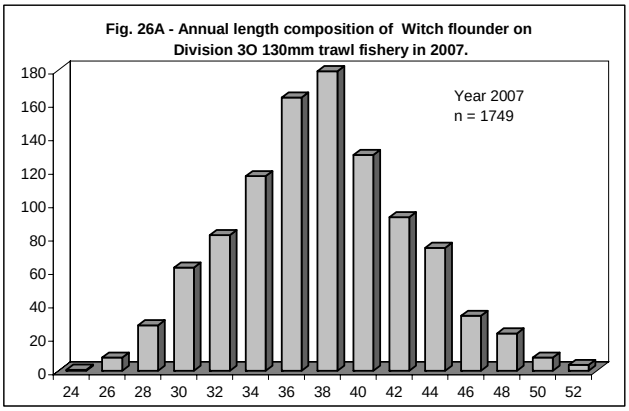


Fig. 26A - Annual length composition of Witch flounder on Division 3O 130mm trawl fishery in 2007.

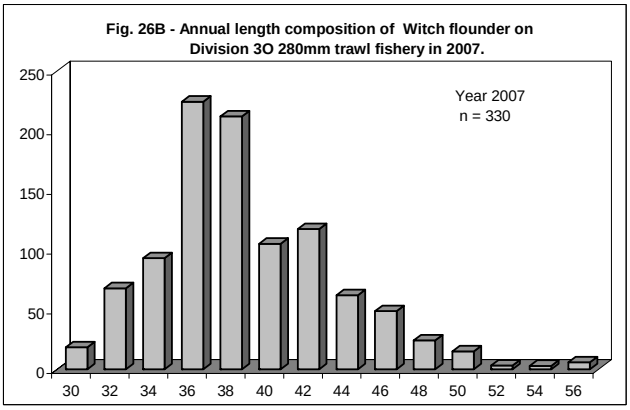


Fig. 26B - Annual length composition of Witch flounder on Division 3O 280mm trawl fishery in 2007.

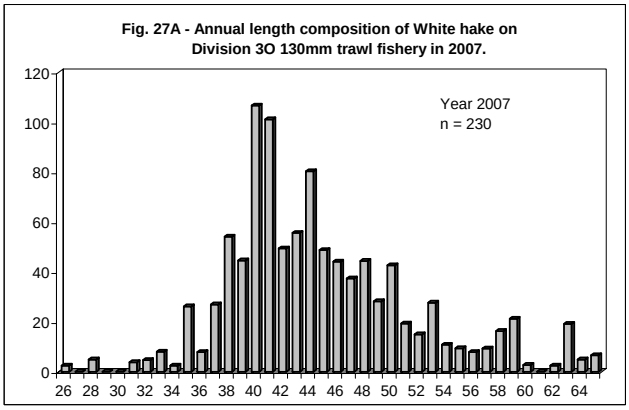


Fig. 27A - Annual length composition of White hake on Division 3O 130mm trawl fishery in 2007.

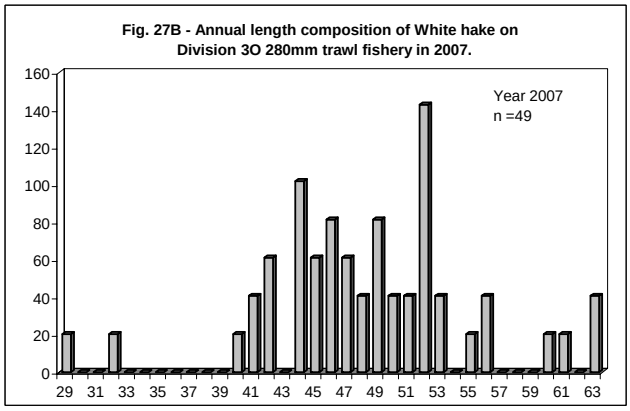


Fig. 27B - Annual length composition of White hake on Division 3O 280mm trawl fishery in 2007.

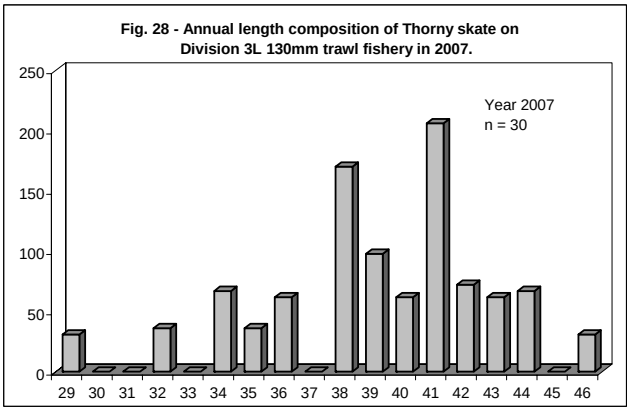


Fig. 28 - Annual length composition of Thorny skate on Division 3L 130mm trawl fishery in 2007.

Fig. 29 - Annual length composition of Thorny skate on Division 3M 130mm trawl fishery in 2007.

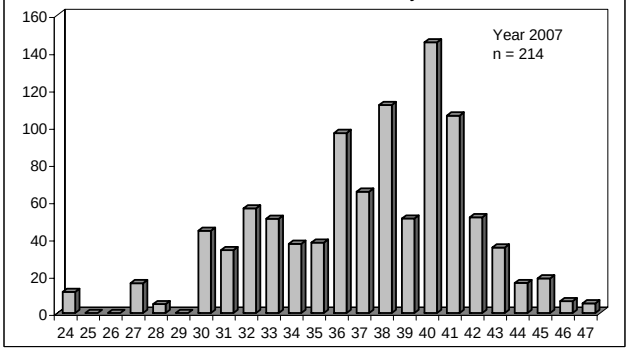


Fig. 30A- Annual length composition of Thorny skate on Division 3N 130mm trawl fishery in 2007.

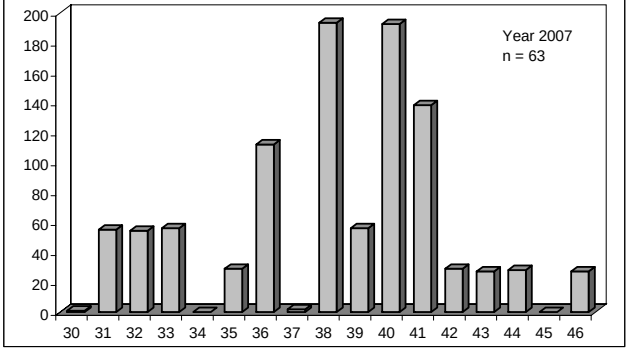


Fig. 30B - Annual length composition of Thorny skate on Division 3N 280mm trawl fishery in 2007.

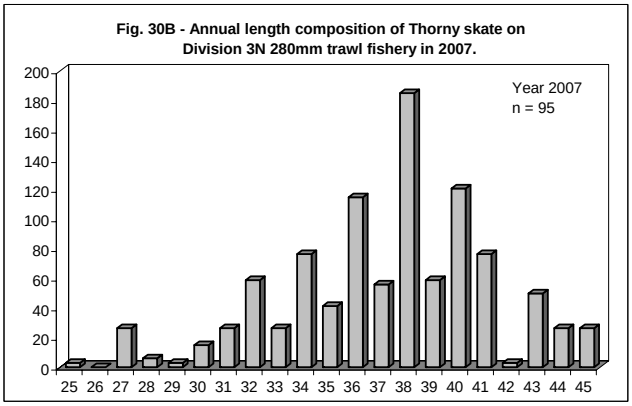


Fig. 31A - Annual length composition of Thorny skate on Division 3O 130mm trawl fishery in 2007.

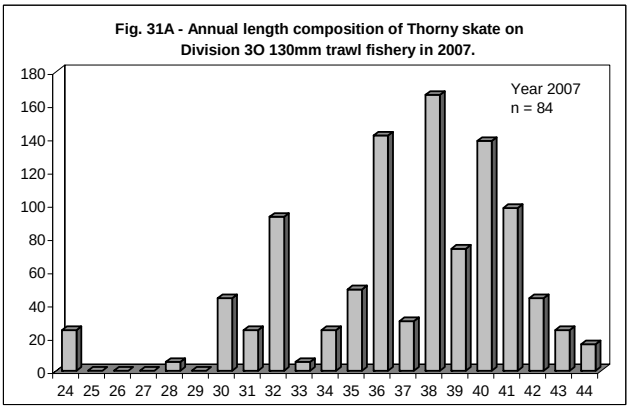


Fig.31B - Annual length composition of Thorny skate on Division 3O 280mm trawl fishery in 2007.

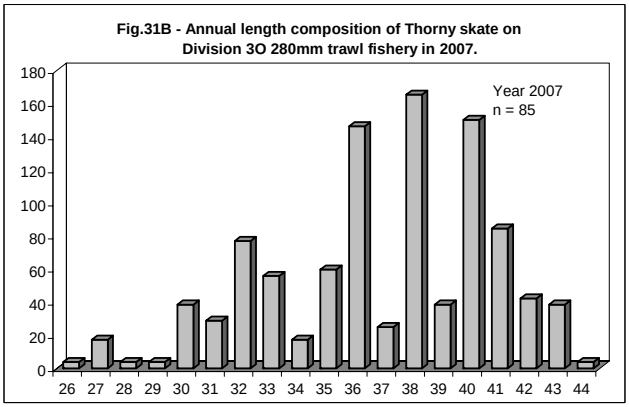


Fig. 32- Annual length composition of Spinytail skate on Division 3L 130mm trawl fishery in 2007.

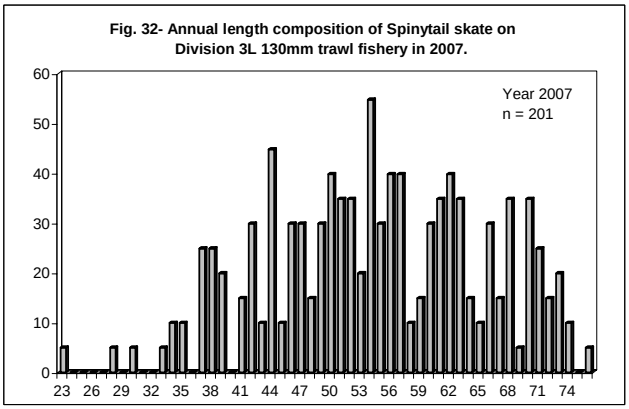


Fig. 33 - Annual length composition of Spinytail skate on Division 3M 130mm trawl fishery in 2007.