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Portuguese Research Report for 2004

by

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A. Status of the Fisheries

In 2004 the Portuguese nominal catches proceeding from NAFO Regulatory Sub Area 3 recorded 12 776 ton (Table I). The NAFO nominal catches decreased continuously from 1991 (75 000 ton) to 1997 (9 000 ton) with two major drops: first from 1991 to 1992 (less 36 220 ton) and second from 1994 to 1995 (less 11 441 ton). The lowest level of the nominal catches for the modern history of the Portuguese Northwest Atlantic fisheries was reached in 1997. In 1999 catches almost doubled the average level of the two precedent years (16 554 ton), but dropped again in 2000 to 13 000 ton. Since then Portuguese nominal catch increased continuously, reaching 21 000 ton in 2003. But in 2004 the catches decreased to the level of year 2000.

This down in the catches is due a great decrease in the fishing effort in all divisions, except in Div. 3M. Globally, the fishing effort decreased 25% from 2004 to 2003. Div. 3N (-50%) and Div. 3O (-36%) registered the majors drops. In the Div. 3M the fishing effort increased, both in fishing days (+49%) and fishing hours (+65%). On 2004 twelve Portuguese stern trawlers have been recorded fishing in the NRA.

The reduction in the nominal catches (Table I-A) in 2004 is mainly due to reduction on catches of Greenland halibut (-59%), white hake (-68%), cod (-59%), American plaice (-43%) and redfish (-23%).

The Greenland halibut catches decreased in all divisions, mainly in Div. 3N (-79%) and Div. 3L (-43%). Greenland halibut and roughhead grenadier continued to represent the bulk of the catches in Div. 3L (71% in 2002, 78% in 2003 and 78% in 2004)). But in Div. 3N the relative weight of these two species has been declining from 76% in 1998 to 24% in 2004, while the importance of the skates and white hake (2002-2003) fisheries and consequent American plaice and yellowtail flounder by-catches increased (Table I-A). In 2004 the Div. 3N white hake catches suffered a great drop from 2 212 ton in 2003 to 44 ton in 2004.

Like in previous years, redfish was the most important catch in Div. 3M (73% of the catch in this division). In Div. 3O redfish has maintained its importance as well, though representing just around 60% of the catches since 2002 against 83% in 2001. In Div 3O, white hake was the second most important catch since 2002.

B. Portuguese Annual Sampling Program

1. Catch and effort sampling.

Effort and CPUE data for 2004 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 2004 logbooks available were processed in order to convert the 2004 Portuguese effort, reported in fishing days on the 2004 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. As mentioned before, the majority of the fishing effort was directed towards Greenland halibut.

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 2004 observed CPUEs. The additive model (Ávila de Melo and Alpoim, 1995), was upgraded in 1998 (Alpoim *et al*., MS 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, MS 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 Table 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 (from 0.328 ton/h to 0.171 ton/h). Between 1991 and 1994 catch rates remained stable at a low level. Since then catch rates gradually increased, reaching an upper level of 0.300 ton/h in 1999-2000. Catch rates declined in 2001 to the 1997-1998 level and remained stable at that level in 2002 and 2003. But in 2004 the catch rates decreased again reaching the lowest value since 1994 (0.147 ton/h).

In years before, Greenland halibut catch rates in Div. 3N shown no apparent trend till 1998. An increase is observed in 1999 and 2000, when a maximum of 0.309 ton/h was reached. In 2001 catch rates dropped to 0.213 ton/h and oscillate in 2002-2003 between 0.277 and 0.221 ton/h (Table IV-A, Fig. 1). In 2004, the catch rates dropped again reaching the lowest value since 1995.

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 2004 biological sampling was obtained from two stern trawler 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)*, roughhead grenadier, American plaice, witch flounder, thorny skate and spinytail skate were sampled in Div. 3L, 3M, 3N and 3O (Table V). Cod, Atlantic halibut, white hake and monkfish were sampled in Div. 3N and 3O. Yellowtail flounder were sampled in Div. 3N and redfish (*S. marinus*) were sampled 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 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 2004 (Table VI).

2.1. **Length composition of the 2004 squid net trawl fishery (60mm codend mesh size)**

Some sets in Div. 3O were made with a squid trawl net with 60mm mesh size in the codend. In these few sets some species were sampled. Length frequency, mean length and mean weight in the catch are presented for redfish (Table XII-A, Fig. 7A), American plaice (Table XVII-A, Fig. 12A), Greenland halibut (Table XXII-A, Fig. 17A), white hake (Table XXXIV-A, Fig. 27A), thorny skate (Table XXXVIII-A, Fig. 31A) and monkfish (Table XLIV-A).The size of these catches within the overall sampled catch in Div. 3O is close to zero.

2.2. **Length composition of the 2004 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. In these sets some species were sampled. Length frequency, mean length and mean weight in the catch are presented for cod (Table VII-B, Fig. 2B), American plaice (Tables XVI-B, XVII-C, Fig. 11B, 12C), yellowtail flounder (Table XVIII-B, Fig. 13B), witch flounder (Table XXX-B, Fig. 25B), thorny skate (Tables XXXVII-B, XXXVIII-C, Fig. 30B, 31C) and monkfish (Tables XLIII-B, XLIV-C). The size of these catches within the overall sampled catch in Div. 3N is about 3% for cod, 14% for American plaice, 10% for yellowtail flounder, 1% for witch flounder, 40% for thorny skate and 36% for monkfish. In Div. 3O is about 5% for thorny skate and close to zero for the rest of the species.

2.3. **Length composition of the 2004 trawl fishery (130mm codend mesh size)**

2.3.1. **Cod Div. 3N**

Information on length composition of the cod by-catch in Div. 3N is available for April, October and November (Table VII-A, Fig. 2A), from 66 m to 1 007m depth.

Lengths between 45 cm and 66 cm dominated the catch, with a mode at the classes 48 cm and 63 cm (mean length and weight of 55 cm and 2 152 g).

2.3.2. **Cod Div. 3O**

Information on length composition of the cod by-catch in Div. 3O is available for February, April, June, August, October and November (Table VIII, Fig. 3), from 94 m to 714 m depth.

Lengths between 48 cm and 63 cm dominated the catch, with a mode at the class 51 cm (mean length and weight of 57 cm and 2 170 g).

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

Information on length composition of the redfish (*S. mentella)* trawl by-catch in Div. 3L is available for January to June, except May (Table IX, Fig. 4), from 732 m to 1 153 m depth.

Lengths between 26 cm and 30 cm dominated catches, with a mode at the class 27 cm (mean length and weight of 30 cm and 386 g).

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

Information on length composition of the redfish (*S. mentella)* trawl catch in Div. 3M is available for January to April, and to June, September and October (Table X, Fig. 5), from 305 m to 1 156 m depth.

Lengths between 20 cm and 24 cm dominated catches, with a mode at the classes 21 cm and 22 cm (mean length and weight of 24 cm and 241 g).

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

Information on length composition of the redfish (*S. mentella)* trawl by-catch in Div. 3N is available for April to June, and September and October (Table XI, Fig. 6), from 326 m to 1 251 m depth.

Lengths between 25 cm and 30 cm dominated catches, with one equal mode at the classes 26 cm and 30 cm (mean length and weight of 28 cm and 340 g).

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

Information on length composition of the redfish (*S. mentella)* trawl catch in Div. 3O is available from February to April, for June and from August to November, except September (Table XII-B, Fig. 7B), from 94 m to 966 m depth.

Lengths between 21 cm and 25 cm dominated catches, with a mode at class 23 cm (mean length and weight of 24 cm and 221 g).

2.3.7. **Redfish** (*S. marinus*) **Div. 3O**

Information on length composition of the redfish (*S. marinus)* trawl by-catch in Div. 3O is available only for June (Table XIII, Fig. 8), from 160 m to 330 m depth.

The sampling is only from one month, the lengths between 26 cm and 29 cm dominated catches, with a mode at class 28 cm (mean length and weight of 28 cm and 333 g).

2.3.8. **American plaice Div. 3L**

Information on length composition of the American plaice by-catch in Div. 3L is available from March to June (Table XIV, Fig. 9), from 666 m to 1 189 m depth.

Lengths between 36 cm and 44 cm dominated catches, with a equal mode at 36 cm, 38 cm and 42 cm (mean length and weight of 41 cm and 727 g).

2.3.9. **American plaice Div. 3M**

Information on length composition of the American plaice by-catch in Div. 3M is available for February to April, and June (Table XV, Fig. 10), from 804 m to 1 152 m.

Lengths between 36 cm and 44 cm dominated catches, with a no clear mode (mean length and weight of 42 cm and 776 g).

2.3.10. **American plaice Div. 3N**

Information on length composition of the American plaice by-catch in Div. 3N is available for February to June (except March) and for October and November (Table XVI-A, Fig. 11-A), from 55 m to 1 251 m depth.

Lengths between 30 cm and 44 cm dominated catches, with a two modal classes at 32 cm and 36 cm (mean length and weight of 39 cm and 647 g).

2.3.11. **American plaice Div. 3O**

Information on length composition of the American plaice by-catch in Div. 3O is available from February to April, and for June, August, October and November (Table XVII-B, Fig. 12-B), from 94 m to 840 m depth.

Lengths between 32 cm and 38 cm, and at class 44 cm, dominated catches, with a three modal classes at 32 cm, 34 cm and 36 cm (mean length and weight of 40 cm and 749 g).

2.3.12. **Yellowtail flounder Div. 3N**

Information on length composition of the yellowtail flounder in Div. 3N is available for April, October and November (Table XVIII-A, Fig. 13-A), from 55 m to 160 m depth.

Lengths between 32 cm and 40 cm dominated catches, with a mode at 38 cm (mean length and weight of 38 cm and 537 g).

2.3.13. **Greenland halibut Div. 3L**

Information on length composition of the Greenland halibut in Div. 3L is available from January to June and for September (Table XIX, Fig. 14), from depths 663 m to 1 248 m.

Lengths between 38 cm and 48 cm dominated catches, with a mode at 40 cm (mean length and weight of 44 cm and 866 g).

2.3.14. **Greenland halibut Div. 3M**

Information on length composition of the Greenland halibut in Div. 3M is available from January to June and for September and October (Table XX, Fig. 15), from 305 m to 1 162 m depth.

Lengths between 40 cm and 50 cm dominated catches, with two modal classes at 44 cm and 46 cm (mean length and weight of 47 cm and 1 055 g).

2.3.15. **Greenland halibut Div. 3N**

Information on length composition of the Greenland halibut in Div. 3N is available from February to November, except July (Table XXI, Fig. 16) from 463 m to 1 482 m depth.

Lengths between 34 cm and 44 cm dominated catches, with a mode at 40 cm (mean length and weight of 41 cm and 731 g).

2.3.16. **Greenland halibut Div. 3O**

Information on length composition of the Greenland halibut in Div. 3O is available for March, April, October and November (Table XXII-B, Fig. 17-B), from 356 m to 1 390 m depth.

Lengths at 42 cm, and between 48 cm and 54 cm dominated catches, with a very clear mode at 52 cm (mean length and weight of 49 cm and 1 226 g).

2.3.17. **Roughhead grenadier Div. 3L**

Information on length composition of the roughhead grenadier catches in Div. 3L is available from January to June, except March, and for September (Table XXIII, Fig. 18), from 663 m to 1 248 m depth.

Anal lengths between 11 cm and 14 cm dominated catches, with a two modes at 12 cm and 13 cm (mean length and weight of 14 cm and 496 g).

2.3.18. **Roughhead grenadier Div. 3M**

Information on length composition of the roughhead grenadier catches in Div. 3M is available from February to June (Table XXIV, Fig. 19), from 837 m to 1 156 m depth.

Anal lengths between 11 cm and 15 cm dominated catches, with an equal mode at classes 12 cm and 13 cm (mean length and weight of 14 cm and 540 g).

2.3.19. **Roughhead grenadier Div. 3N**

Information on length composition of the roughhead grenadier catches in Div. 3N is available from February to November, except March and July (Table XXV, Fig. 20), from 673 m to 1 364 m depth.

Anal lengths between 10 cm and 14 cm dominated catches, with a very clear mode at 12 cm (mean length and weight of 13 cm and 467g).

2.3.20. **Roughhead grenadier Div. 3O**

Information on length composition of the roughhead grenadier catches in Div. 3O is available only for October (Table XXVI, Fig. 21), from 954m to 1390m depth.

Sampling data is based on a small number of observations (3 samples, 317 fish measured), the anal lengths between 11 cm and 14 cm dominated catches, with a possible mode at 12 cm (mean length and weight of 14 cm and 553 g).

2.3.21. **Witch flounder Div. 3L**

Information on length composition of the witch flounder catches in Div. 3L is available from January to June, except February, and for September (Table XXVII, Fig. 22), from 786 m to 1 216 m depth.

Lengths between 34 cm and 40 cm dominated catches, with a clear mode at 38 cm (mean length and weight of 40 cm and 618 g).

2.3.22. **Witch flounder Div. 3M**

Information on length composition of the witch flounder catches in Div. 3M is available from January to April, and for September and October (Table XXVIII, Fig. 23), from 305 m to 1 162 m depth.

Lengths between 38 cm and 44 cm dominated catches, with a mode at 42 cm (mean length and weight of 42 cm and 665 g).

2.3.23. **Witch flounder Div. 3N**

Information on length composition of the witch flounder catches in Div. 3N is available for April to November, except July (Table XXIX, Fig. 24), from 73 m to 1 482 m depth.

Lengths between 34 cm and 42 cm dominated catches, with a very clear mode at 38 cm (mean length and weight of 40 cm and 539 g).

2.3.24. **Witch flounder Div. 3O**

Information on length composition of the witch flounder catches in Div. 3O is available from February to November, except for May and July (Table XXX-A, Fig. 25-A), from 94 m to 1 076 m depth.

Lengths between 34 cm and 42 cm dominated catches, with a very clear mode at 38 cm (mean length and weight of 40 cm and 551 g).

2.3.25. **Atlantic halibut Div. 3N, 3O**

Information on length composition of the Atlantic halibut catches in Div. 3N and 3O is available from April to November, except for July and September (Tables XXXI and XXXII), from 66 m to 1 390 m depth.

Because sampling data is based on a very small number of observations (15 samples, 39 fish measured) are no comments.

2.3.26. **White hake Div. 3N**

Information on length composition of the white hake catches in Div. 3N is available for April, October and November (Table XXXIII, Fig. 26), from 94 m to 840 m depth.

Sampling data is based on a very small number of observations (4 samples, 232 fish measured), the length range was from 32 cm till 73 cm, with a possible mode at 49 cm (mean length and weight of 47 cm and 1 244 g).

2.3.27. **White hake Div. 3O**

Information on length composition of the white hake catches in Div. 3O is available for February, April, June, August, October and November (Table XXXIV-B, Fig. 27-B), from 94 m to 840 m depth.

Lengths between 42 cm and 49 cm dominated catches, with two modes at classes 45 cm and 47 cm (mean length and weight of 49 cm and 1 384 g).

2.3.28. **Thorny skate Div. 3L**

Information on length composition of the thorny skate catches in Div. 3L is available from March to June and for September (Table XXXV, Fig. 28), from 666 m to 1 248 m depth.

Lengths at 38 cm and 40 cm dominated catches (mean length of 36 cm).

2.3.29. **Thorny skate Div. 3M**

Information on length composition of the thorny skate catches in Div. 3M is available from February to June, and for September and October (Table XXXVI, Fig. 29), from 305 m to 1 162 m depth.

Lengths at 40 cm dominated catches (mean length of 34 cm).

2.3.30. **Thorny skate Div. 3N**

Information on length composition of the thorny skate catches in Div. 3N is available for February, and from April to November, except July (Table XXXVII-A, Fig. 30-A), from 73 m to 1 364 m depth.

Lengths at 38 cm and 40 cm dominated catches (mean length of 35.4 cm).

2.3.31. **Thorny skate Div. 3O**

Information on length composition of the thorny skate catches in Div. 3O is available for April, June, August, October and November (Table XXXVIII-B, Fig. 31-B), from 94 m to 1 006 m depth.

Lengths at 36 cm and 38 cm, and between 40 cm and 42 cm, dominated catches, with a very clear mode at 40 cm (mean length of 38 cm).

2.3.32. **Spinytail skate Div. 3L**

Information on length composition of the spinytail skate catches in Div. 3L is available from March to June, and for September (Table XXXIX, Fig. 32), from 777 m to 1 248 m depth.

Sampling data is based on a very small number of observations (25 samples, but only 155 fish measured), the lengths range was from 19 cm till 77 cm (mean length of 45 cm).

2.3.33. **Spinytail skate Div. 3M**

Information on length composition of the spinytail skate catches in Div. 3M is available from February to May, and for September and October (Table XL, Fig. 33), from 365 m to 1 162 m depth.

The most abundant length classes are at 23 cm, 28 cm, 33 cm, 34 cm, 37 cm and 42 cm (mean length of 37 cm).

2.3.34. **Spinytail skate Div. 3N**

Information on length composition of the spinytail skate catches in Div. 3N is available from April to November, except for July (Table XLI, Fig. 34), from 548 m to 1 364 m depth.

The most abundant length classes are at 33 cm, 34 cm, 37 cm, 42 cm, 44 cm, 46 cm and 54 cm (mean length of 48 cm).

2.3.35. **Spinytail skate Div. 3O**

Information on length composition of the spinytail skate catches in Div. 3O is available for April, October and November (Table XLII, Fig. 35), from 430 m to 1 390 m depth.

Sampling data is based on a very small number of observations (8 samples, 60 fish measured), the lengths range was from 13 cm till 76 cm (mean length of 42 cm).

2.3.36. **Monkfish Div. 3N**

Information on length composition of the monkfish catches in Div. 3N is available for April, October and November (Table XLIII-A, Fig.36), from 73 m to 1 020 m depth.

Sampling data is based on a very small number of observations (10 samples, 77 fish measured), the lengths range was from 14 cm till 80 cm, with a possible mode at classes 49 cm and 56 cm (mean length and weight of 53 cm and 3 733 g).

2.3.37 **Monkfish Div. 3O**

Information on length composition of the monkfish catches in Div. 3O is available for April and June, and from August and November, except September (Table XLIV-B, Fig. 37), from 94 m to 840 m depth.

The most abundant length classes are at 49 cm, 51 cm, 53 cm and 56 cm (mean length and weight of 54 cm and 3 953 g).

3. Acknowledgements

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4. References

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TABLE I-A: PORTUGUESE NOMINAL TRAWL CATCHES (mt) IN NAFO AREA, 2004.

	DIVISION						SUBAREA 3	TOTAL
SPECIES	1F	2J	3L	3M	3N	3O	2004	2004
Cod			5.4	17.3	89.3	167.5	279.5	279.5
Redfish	665.3		60.2	2589.1	61.1	3258.9	5969.3	6634.6
American plaice			72.6	57.4	114.2	267.8	512.0	512.0
Yellowtail flounder					68.3	0.2	68.5	68.5
Witch flounder			48.8	285.8	41.3	212.5	588.4	588.4
Greenland halibut			1078.6	401.4	350.5	50.8	1881.3	1881.3
Atlantic halibut			9.6	2.4	17.4	30.2	59.6	59.6
Roughhead grenadier			236.4	35.0	102.1	6.2	379.7	379.7
Anarhichas spp.			9.9	17.9	12.0	6.0	45.8	45.8
Hadocck				0.3	2.1	20.6	23.0	23.0
Pollock						3.5	3.5	3.5
White hake				2.1	44.4	1218.0	1264.5	1264.5
Red hake			5.0	1.1		5.8	11.9	11.9
Capelin								
Skates			152.1	80.0	966.9	343.5	1542.5	1542.5
Monkfish			0.1	0.5	5.0	68.7	74.3	74.3
Squid					0.3	11.0	11.3	11.3
Shrimp				50.0			50.0	50.0
Unidentified			1.5	0.3	2.6	6.9	11.3	11.3
TOTAL	665.3		1680.2	3540.6	1877.5	5678.1	12776.4	13441.7

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

SPECIES / YEAR	2004	2003	2002	2001	2000	1999	1998	1997
Cod	280	677	488	357	193	327	549	1546
Redfish	5969	7710	6344	5324	5743	6081	2368	1125
American plaice	512	901	631	633	402	719	357	389
Yellowtail flounder	69	287	122	351	153	426	85	
Witch flounder	588	501	433	579	228	508	381	347
Greenland halibut	1881	4611	4319	5026	4769	3995	3242	3343
Atlantic halibut	60	89	46	44	29	51	30	17
Roughhead grenadier(1)	380	292	508	610	396	1299	1089	762
Anarhichas spp.	46	106	87	141	61	549	140	185
Hadocck	23	131	78	23	13	10	6	39
Pollock	4	115						
White hake (2)	1265	3919	1969	273	41	77	18	56
Red hake	12	2						
Capelin								
Skates	1543	1816	1361	880	666	2168	1105	904
Monkfish	74	156						
Squid	11						1	
Shrimp	50		15	420	289	227	203	170
Unidentified	11	13	43	41	3	117	40	116
TOTAL	12776	21324	16443	14701	12985	16554	9614	9000

TABLE I - B: cont.

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

(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 2004.

MONTH	DIVISION 1F	2J	3L		3M		3N		3O		TOTAL SUBAREA 3		MONTH
	DAYS	DAYS	DAYS	HOURS	DAYS	HOURS	DAYS	HOURS	DAYS	HOURS	DAYS	HOURS	
JAN.			19	214	14	145	14	82	38	384	85	825	JAN.
FEB.			53	550	57	769	35	206	18	182	163	1707	FEB.
MAR.			61	683	72	1039	30	70	68	762	231	2555	MAR.
APR.			70	632	46	561	39	307	112	1409	267	2909	APR.
MAY			65	823	23	219	15	157	4	71	107	1269	MAY
JUN.			39	492	10	89	12	126	12	242	73	949	JUN.
JUL.			61	798	11	128	9	53	24	96	105	1075	JUL.
AUG.	11		2	26		0	25	348	55	937	82	1311	AUG.
SEP.	81		8	119	107	1281	19	209	3	47	137	1656	SEP.
OCT.	6		2	30	41	573	67	672	53	666	163	1941	OCT.
NOV.			13	194		0	68	543	74	538	155	1276	NOV.
DEC.			42	627	2	28	73	583	20	145	137	1383	DEC.
TOTAL	98		435	5186	383	4832	406	3357	481	5481	1705	18856	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 SUBAREA 3.

YEAR	GEAR OT		GNS		YEAR
	DAYS	HOURS	DAYS	NETS	
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 2004.

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	MAR	761	818	0.055	GHL	41.5	4.6	67.1
3M	RED	APR	410	1024	0.039	GHL	34.3	6.0	74.3
3M	RED	SEP	305	463	0.845	SKA	2.0	0.1	3.9
3M	RED	OCT	305	480	0.617	SKA	2.3	0.4	4.7
3O	RED	FEB	320	711	0.182	PLA	25.2	17.6	74.8
3O	RED	MAR	385	1073	0.142	PLA	20.0	12.1	75.7
3O	RED	APR	246	804	0.077	PLA	22.9	8.9	68.2
3O	RED	JUN	131	443	0.496	HKW	9.9	1.1	27.7
3O	RED	AUG	180	465	0.068	SKA	23.1	3.2	65.1
3O	RED	OCT	305	551	0.376	SKA	6.0	2.3	19.9
3O	RED	NOV	210	580	0.394	SKA	5.9	3.5	17.6
3L	GHL	JAN	732	1010	0.173	SKA	15.9	6.6	36.9
3L	GHL	FEB	707	964	0.226	SKA	10.1	4.7	29.3
3L	GHL	MAR	731	1044	0.127	SKA	17.6	6.0	45.9
3L	GHL	APR	728	1177	0.109	RHG	12.9	5.0	40.7
3L	GHL	MAY	786	1265	0.101	RHG	22.0	1.1	34.5
3L	GHL	JUN	663	1223	0.097	RHG	20.6	1.2	34.6
3L	GHL	SEP	940	1130	0.108	RHG	18.4	1.4	26.4
3M	GHL	JAN	400	985	0.106	WIT	19.4	19.4	44.5
3M	GHL	FEB	826	1040	0.229	WIT	17.7	17.7	38.0
3M	GHL	MAR	753	1156	0.161	WIT	17.7	17.7	39.7
3M	GHL	APR	308	1162	0.114	RHG	11.7	6.6	42.6
3M	GHL	MAY	947	1115	0.087	RHG	27.6	0.9	43.2
3M	GHL	JUN	1012	1106	0.075	RHG	23.6	1.1	37.0
3N	GHL	FEB	650	1147	0.129	SKA	19.9	2.3	48.4
3N	GHL	MAR	790	810	0.101	RED	23.5	7.8	68.7
3N	GHL	APR	330	1220	0.136	SKA	22.9	3.1	54.4
3N	GHL	MAY	719	1400	0.161	SKA	25.0	1.3	49.5
3N	GHL	JUN	714	1100	0.125	SKA	17.8	4.4	48.3
3N	GHL	AUG	646	950	0.102	RHG	41.1	1.2	55.1
3N	GHL	SEP	700	1482	0.132	RHG	22.8	2.4	34.9
3N	GHL	OCT	655	1307	0.088	RHG	25.0	4.8	47.4
3N	GHL	NOV	673	1101	0.062	RHG	39.4	5.6	61.9
3O	GHL	FEB	628	1070	0.158	RED	17.7	6.1	56.6
3O	GHL	MAR	385	1120	0.145	RED	17.2	11.1	68.0
3O	GHL	OCT	954	1390	0.091	RHG	18.4	3.1	56.5
3L	RHG	APR	600	648	0.022	CAT	40.7	0.0	77.8
3L	RHG	MAY	837	1193	0.045	GHL	51.8	1.1	64.0
3L	RHG	JUN	777	875	0.054	GHL	41.5	3.8	64.9
3M	RHG	JAN	887	983	0.030	WIT	30.5	30.5	86.9
3M	RHG	FEB	924	1040	0.038	GHL	41.0	5.0	73.5
3M	RHG	APR	880	1010	0.021	GHL	30.8	6.9	85.0
3M	RHG	MAY	1014	1027	0.060	GHL	50.4	2.4	60.2
3N	RHG	APR	711	880	0.035	GHL	19.1	5.7	90.4
3N	RHG	MAY	800	884	0.067	GHL	49.7	1.0	67.6
3N	RHG	JUN	795	930	0.038	GHL	42.5	2.5	70.2
3N	RHG	AUG	646	950	0.094	GHL	44.9	1.2	58.9
3N	RHG	SEP	775	888	0.048	GHL	51.5	4.5	67.9
3N	RHG	OCT	655	787	0.051	GHL	39.5	8.3	68.4
3N	RHG	NOV	673	1101	0.064	GHL	38.1	5.6	60.6
3O	RHG	OCT	984	1077	0.042	GHL	31.6	4.8	78.5

TABLE III: count.

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 (%)
3L	SKA	JAN	810	864	0.116	GHL	36.7	4.0	49.5
3L	SKA	FEB	773	938	0.116	GHL	42.4	4.3	57.5
3L	SKA	MAR	837	972	0.135	GHL	35.6	4.8	55.1
3L	SKA	APR	600	864	0.029	GHL	29.2	0.0	71.8
3M	SKA	JAN	400	985	0.037	GHL	31.7	22.0	79.3
3M	SKA	FEB	877	942	0.047	WIT	33.4	33.4	65.7
3M	SKA	MAR	761	1025	0.036	GHL	37.3	12.3	78.0
3M	SKA	APR	422	1010	0.043	GHL	29.8	5.8	70.6
3N	SKA	FEB	1020	1147	0.227	GHL	50.2	4.5	69.1
3N	SKA	APR	330	880	0.115	GHL	34.9	4.2	66.1
3N	SKA	MAY	719	920	0.144	GHL	38.6	1.2	61.9
3N	SKA	JUL	156	182	0.078	PLA	42.5	0.0	71.1
3N	SKA	OCT	64	70	0.138	PLA	6.4	0.0	7.9
3N	SKA	NOV	50	146	0.248	PLA	8.7	0.2	15.3
3O	SKA	FEB	110	455	0.228	PLA	21.0	20.0	68.5
3O	SKA	MAR	505	966	0.038	WIT	24.0	24.0	94.8
3O	SKA	APR	529	713	0.021	RED	21.8	5.7	85.7
3O	SKA	JUN	334	360	0.032	RED	19.4	3.9	68.5
3O	SKA	AUG	130	454	0.075	HKW	24.0	2.6	67.6
3O	SKA	OCT	67	1013	0.105	HKW	25.7	10.3	70.1
3O	SKA	NOV	88	242	0.043	WIT	20.1	20.1	60.3
3N	HKW	APR	711	842	0.073	GHL	31.3	4.6	82.5
3N	HKW	NOV	673	900	0.042	GHL	39.2	6.9	75.4
3O	HKW	MAR	385	1073	0.106	RED	23.6	15.4	80.9
3O	HKW	APR	362	862	0.136	PLA	26.6	8.1	68.0
3O	HKW	JUN	106	450	0.330	COD	7.9	2.0	37.4
3O	HKW	JUL	116	130	0.140	PLA	36.7	1.0	74.3
3O	HKW	AUG	130	445	0.073	SKA	28.4	2.8	70.8
3O	HKW	OCT	94	402	0.219	SKA	22.2	9.0	62.0
3O	HKW	NOV	170	182	0.010	WIT	28.6	28.6	90.5

TABLE IV - A: GREENLAND HALIBUT TRAWL CATCH RATES, 1988-2004: mean annual cpue's corrected for the month, division and vessel of each observation.

	3L			3M			3N			3LMNO			
	CPUE	ST.ERROR	C.V.	CPUE	ST.ERROR	C.V.	CPUE	ST.ERROR	C.V.	CPUE	ST.ERROR	C.V.	
1988	0.390	0.080	41.3							0.401	0.094	46.8	1988
1989	0.365	0.047	38.7							0.362	0.057	47.1	1989
1990	0.328	0.035	36.4	0.234			0.175			0.321	0.035	40.3	1990
1991	0.171	0.026	33.7				0.168	0.030	31.3	0.167	0.018	31.0	1991
1992	0.103	0.032	98.6				0.213	0.025	40.4	0.165	0.023	66.5	1992
1993	0.079	0.043	76.3				0.170	0.018	36.8	0.140	0.019	50.1	1993
1994	0.094	0.033	49.5				0.144	0.021	34.9	0.128	0.016	34.7	1994
1995	0.156	0.025	45.2	0.166	0.010	13.2	0.148	0.021	38.1	0.159	0.014	40.2	1995
1996	0.211	0.022	37.7	0.207	0.017	24.3	0.182	0.018	26.4	0.191	0.009	25.6	1996
1997	0.222	0.019	28.6	0.261	0.029	31.6	0.164	0.009	7.3	0.214	0.017	35.4	1997
1998	0.258	0.020	28.4	0.192	0.028	50.7	0.181	0.014	25.5	0.222	0.010	29.7	1998
1999	0.297	0.024	25.4	0.304	0.025	24.6	0.228	0.019	25.1	0.278	0.018	34.7	1999
2000	0.300	0.023	20.1	0.303	0.022	16.5	0.309	0.042	27.3	0.296	0.019	25.4	2000
2001	0.241	0.029	31.8	0.228	0.010	11.7	0.213	0.013	14.1	0.224	0.012	23.9	2001
2002	0.246	0.015	20.2	0.214	0.020	30.3	0.277	0.034	24.2	0.235	0.014	29.4	2002
2003	0.249	0.026	32.5	0.206	0.025	34.0	0.221	0.024	26.4	0.227	0.015	33.0	2003
2004	0.147	0.011	22.2	0.107	0.020	56.1	0.154	0.011	19.5	0.140	0.010	37.6	2004

TABLE IV - B: GREENLAND HALIBUT TRAWL CATCH RATES, 1988-2004: mean cpue's by division corrected for the year, month and vessel of each observation.

	CPUE	ST.ERROR	C.V.	
3L	0.239	0.007	37.3	3L
3M	0.216	0.008	34.1	3M
3N	0.194	0.006	32.3	3N
3LMNO	0.217	0.005	38.3	3LMNO

TABLE V: Intensity of the trawl sampling during 2004, 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	SEP	3	4	9.8	4	54-61
COD	3N	APR	7	441	632.8	206	29-90
COD	3N	OCT	3	184	362.6	164	20-78
COD	3N	NOV	13	239	667.3	100	23-121
COD	3O	FEB	1	27	32.1	-	-
COD	3O	APR	2	62	150.3	57	33-102
COD	3O	JUN	6	503	996.9	146	31-90
COD	3O	AUG	3	52	46.8	52	30-54
COD	3O	OCT	1	2	5.7	2	56-67
COD	3O	NOV	10	212	310.3	36	24-88
REDFISH (S. mentella)	3L	JAN	2	160	55.7	94	23-42
REDFISH (S. mentella)	3L	FEB	9	720	280.0	136	22-41
REDFISH (S. mentella)	3L	MAR	2	204	76.2		
REDFISH (S. mentella)	3L	APR	6	596	216.7	93	23-36
REDFISH (S. mentella)	3L	JUN	1	50	23.2	50	24-40
REDFISH (S. mentella)	3M	JAN	3	240	79.2	87	22-38
REDFISH (S. mentella)	3M	FEB	9	720	271.2	143	18-41
REDFISH (S. mentella)	3M	MAR	32	3922	1586.1	283	17-43
REDFISH (S. mentella)	3M	APR	20	2052	765.8	220	21-42
REDFISH (S. mentella)	3M	JUN	1	50	23.5	45	25-38
REDFISH (S. mentella)	3M	SEP	17	5482	1605.6	303	13-48
REDFISH (S. mentella)	3M	OCT	13	4462	883.9	256	11-48
REDFISH (S. mentella)	3N	APR	10	1628	684.3	132	23-42
REDFISH (S. mentella)	3N	MAY	10	1135	502.7	152	18-41
REDFISH (S. mentella)	3N	JUN	2	129	68.9	68	25-40
REDFISH (S. mentella)	3N	SEP	1	268	100.3	130	18-40
REDFISH (S. mentella)	3N	OCT	2	140	51.9	140	19-39
REDFISH (S. mentella)	3O	FEB	3	463	138.9	88	25-40
REDFISH (S. mentella)	3O	MAR	5	400	169.7	165	19-42
REDFISH (S. mentella)	3O	APR	9	1331	435.5	115	23-42
REDFISH (S. mentella)	3O	JUN	6	1702	371.0	96	17-29
REDFISH (S. mentella)	3O	AUG	16	3437	649.7	149	7-33
REDFISH (S. mentella)	3O	OCT	4	1104	277.2	-	-
REDFISH (S. mentella)	3O	NOV	8	2133	472.5	154	18-34
REDFISH (S. marinus)	3O	JUN	5	583	195.0	71	24-37
AMERICAN PLAICE	3L	MAR	4	324	228.5	114	4-54
AMERICAN PLAICE	3L	APR	6	367	253.9	-	-
AMERICAN PLAICE	3L	MAY	5	222	144.3	-	-
AMERICAN PLAICE	3L	JUN	5	402	268.7	-	-
AMERICAN PLAICE	3M	FEB	2	77	62.2	38	33-52
AMERICAN PLAICE	3M	MAR	16	687	529.9	-	-
AMERICAN PLAICE	3M	APR	7	205	148.6	-	-
AMERICAN PLAICE	3M	JUN	1	42	27.8	-	-
AMERICAN PLAICE	3N	FEB	1	80	39.5	52	28-49
AMERICAN PLAICE	3N	APR	15	1249	739.4	181	23-61
AMERICAN PLAICE	3N	MAY	12	977	545.1	233	21-60
AMERICAN PLAICE	3N	JUN	2	176	127.3		
AMERICAN PLAICE	3N	OCT	3	175	146.8	175	24-64
AMERICAN PLAICE	3N	NOV	17	3015	2136.9	287	22-66
AMERICAN PLAICE	3O	FEB	3	240	160.0	89	28-59
AMERICAN PLAICE	3O	MAR	4	320	231.8	122	26-57
AMERICAN PLAICE	3O	APR	8	683	462.9	293	22-63
AMERICAN PLAICE	3O	JUN	5	665	596.4		
AMERICAN PLAICE	3O	AUG	16	997	750.4	231	10-66
AMERICAN PLAICE	3O	OCT	5	455	333.2	90	27-59
AMERICAN PLAICE	3O	NOV	11	1735	1229.9	234	10-66

TABLE V: count.

SPECIES	DIV.	MONTH	Nº OF SAMPLES	Nº FISH MEASURED	SAMPLING WEIGHT(Kg)	OTOLITHS Nº	OTOLITHS LENGTH RANGE (cm)
YELLOWTAIL FLOUNDER	3N	APR	3	432	205.4	73	30-45
YELLOWTAIL FLOUNDER	3N	OCT	2	83	42.5	83	28-46
YELLOWTAIL FLOUNDER	3N	NOV	14	1758	918.6	125	25-50
GREENLAND HALIBUT	3L	JAN	4	320	259.3	111	31-65
GREENLAND HALIBUT	3L	FEB	11	880	684.6	155	29-61
GREENLAND HALIBUT	3L	MAR	7	720	494.1	256	24-76
GREENLAND HALIBUT	3L	APR	10	1299	1137.9	254	28-80
GREENLAND HALIBUT	3L	MAY	16	2768	2607.6	293	30-93
GREENLAND HALIBUT	3L	JUN	8	1351	1327.2	320	27-84
GREENLAND HALIBUT	3L	SEP	2	178	249.1	148	10-86
GREENLAND HALIBUT	3M	JAN	5	400	390.4	108	33-68
GREENLAND HALIBUT	3M	FEB	20	1646	1616.2	217	31-69
GREENLAND HALIBUT	3M	MAR	43	5224	4753.5	363	31-75
GREENLAND HALIBUT	3M	APR	22	2422	2550.8	471	32-87
GREENLAND HALIBUT	3M	MAY	3	224	237.2	197	33-71
GREENLAND HALIBUT	3M	JUN	2	134	134.9	124	30-77
GREENLAND HALIBUT	3M	SEP	10	264	223.8	57	35-62
GREENLAND HALIBUT	3M	OCT	13	604	433.1	-	-
GREENLAND HALIBUT	3N	FEB	3	308	282.6	98	29-57
GREENLAND HALIBUT	3N	MAR	1	80	72.8	50	38-62
GREENLAND HALIBUT	3N	APR	9	1618	1075.9	203	22-62
GREENLAND HALIBUT	3N	MAY	13	2717	1868.2	383	21-79
GREENLAND HALIBUT	3N	JUN	3	501	467.7	255	24-87
GREENLAND HALIBUT	3N	AUG	1	202	138.9	-	-
GREENLAND HALIBUT	3N	SEP	11	1840	1400.3	261	25-73
GREENLAND HALIBUT	3N	OCT	6	773	512.1	165	24-61
GREENLAND HALIBUT	3N	NOV	3	426	307.7	60	27-79
GREENLAND HALIBUT	3O	MAR	2	160	195.8	85	37-73
GREENLAND HALIBUT	3O	APR	1	131	86.9	-	-
GREENLAND HALIBUT	3O	AUG	1	53	5.0	53	13-30
GREENLAND HALIBUT	3O	OCT	5	408	375.3	100	36-75
GREENLAND HALIBUT	3O	NOV	1	30	24.6	-	-
ROUGHHEAD GRENADIER	3L	JAN	1	80	31.9	42	10.5-17.5
ROUGHHEAD GRENADIER	3L	FEB	1	80	38.8	45	12-18
ROUGHHEAD GRENADIER	3L	APR	2	289	125.2	67	8-24.5
ROUGHHEAD GRENADIER	3L	MAY	16	3054	1633.5	308	6-32.5
ROUGHHEAD GRENADIER	3L	JUN	8	1365	718.1	235	7-27.5
ROUGHHEAD GRENADIER	3L	SEP	2	114	94.0	113	8-29.5
ROUGHHEAD GRENADIER	3M	FEB	8	624	325.2	176	9.5-27.5
ROUGHHEAD GRENADIER	3M	MAR	13	1454	678.0	105	10-20
ROUGHHEAD GRENADIER	3M	APR	13	1807	1010.3	377	5-32.5
ROUGHHEAD GRENADIER	3M	MAY	3	324	210.6	236	6-28
ROUGHHEAD GRENADIER	3M	JUN	2	171	93.5	89	7-25
ROUGHHEAD GRENADIER	3N	FEB	1	142	46.0	-	-
ROUGHHEAD GRENADIER	3N	APR	1	101	55.3	-	-
ROUGHHEAD GRENADIER	3N	MAY	7	1539	642.9	-	-
ROUGHHEAD GRENADIER	3N	JUN	3	630	352.3	202	7-29.5
ROUGHHEAD GRENADIER	3N	AUG	1	291	127.8	-	-
ROUGHHEAD GRENADIER	3N	SEP	11	1984	957.8	252	6-28.5
ROUGHHEAD GRENADIER	3N	OCT	5	878	519.6	164	7-26.5
ROUGHHEAD GRENADIER	3N	NOV	3	467	246.4	69	7-25
ROUGHHEAD GRENADIER	3O	OCT	3	317	171.1	138	4-30.5

TABLE V: count.

SPECIES	DIV.	MONTH	Nº OF SAMPLES	Nº FISH MEASURED	SAMPLING WEIGHT(Kg)	OTOLITHS Nº	OTOLITHS LENGTH RANGE (cm)
WITCH FLOUNDER	3L	JAN	1	80	57.3	-	-
WITCH FLOUNDER	3L	MAR	5	354	183.2	-	-
WITCH FLOUNDER	3L	APR	8	577	287.5	-	-
WITCH FLOUNDER	3L	MAY	2	94	42.9	30	32-53
WITCH FLOUNDER	3L	JUN	2	155	71.2	-	-
WITCH FLOUNDER	3L	SEP	2	79	38.4	-	-
WITCH FLOUNDER	3M	JAN	2	160	92.7	-	-
WITCH FLOUNDER	3M	FEB	7	536	330.7	-	-
WITCH FLOUNDER	3M	MAR	23	1648	831.9	-	-
WITCH FLOUNDER	3M	APR	8	399	200.5	-	-
WITCH FLOUNDER	3M	SEP	6	182	79.9	-	-
WITCH FLOUNDER	3M	OCT	13	409	194.7	-	-
WITCH FLOUNDER	3N	APR	12	919	463.7	-	-
WITCH FLOUNDER	3N	MAY	10	596	257.7	143	23-56
WITCH FLOUNDER	3N	JUN	2	115	44.6	-	-
WITCH FLOUNDER	3N	AUG	1	42	18.0	-	-
WITCH FLOUNDER	3N	SEP	9	470	182.6	-	-
WITCH FLOUNDER	3N	OCT	6	386	200.6	-	-
WITCH FLOUNDER	3N	NOV	8	701	306.1	-	-
WITCH FLOUNDER	3O	FEB	1	43	20.9	-	-
WITCH FLOUNDER	3O	MAR	1	80	60.8	-	-
WITCH FLOUNDER	3O	APR	5	498	267.3	53	28-53
WITCH FLOUNDER	3O	JUN	2	316	126.0	-	-
WITCH FLOUNDER	3O	AUG	15	1142	463.2	-	-
WITCH FLOUNDER	3O	OCT	9	711	323.4	-	-
WITCH FLOUNDER	3O	NOV	14	1933	850.2	-	-
ATLANTIC HALIBUT	3L	JUN	1	3	33.1	3	86-92
ATLANTIC HALIBUT	3N	APR	2	5	57.7	5	79-101
ATLANTIC HALIBUT	3N	MAY	2	4	55.3	4	78-126
ATLANTIC HALIBUT	3N	OCT	1	2	35.9	2	87-119
ATLANTIC HALIBUT	3N	NOV	2	6	100.5	1	83-83
ATLANTIC HALIBUT	3O	APR	2	5	60.1	5	73-122
ATLANTIC HALIBUT	3O	JUN	2	6	66.1	6	73-112
ATLANTIC HALIBUT	3O	AUG	1	5	59.5	5	67-116
ATLANTIC HALIBUT	3O	OCT	2	5	244.2	5	98-156
ATLANTIC HALIBUT	3O	NOV	1	1	12.2	1	92-92
WHITE HAKE	3N	APR	1	91	113.2	-	-
WHITE HAKE	3N	OCT	1	74	80.9	-	-
WHITE HAKE	3N	NOV	2	67	98.8	-	-
WHITE HAKE	3O	FEB	1	57	51.0	-	-
WHITE HAKE	3O	APR	4	343	470.9	102	33-80
WHITE HAKE	3O	JUN	6	664	995.7	148	42-85
WHITE HAKE	3O	AUG	17	1206	1626.3	219	17-99
WHITE HAKE	3O	OCT	7	594	721.6	-	-
WHITE HAKE	3O	NOV	14	621	849.4	107	18-78

TABLE V: count.

SPECIES	DIV.	MONTH	Nº OF SAMPLES	Nº FISH MEASURED	SAMPLING WEIGHT(Kg)	OTOLITHS Nº	OTOLITHS LENGTH RANGE (cm)
THORNY SKATE	3L	MAR	3	86	233.1	-	-
THORNY SKATE	3L	APR	6	133	355.9	-	-
THORNY SKATE	3L	MAY	16	328	986.2	-	-
THORNY SKATE	3L	JUN	7	127	431.7	-	-
THORNY SKATE	3L	SEP	2	33	84.3	-	-
THORNY SKATE	3M	FEB	1	13	23.4	-	-
THORNY SKATE	3M	MAR	21	472	1031.2	-	-
THORNY SKATE	3M	APR	9	181	511.8	-	-
THORNY SKATE	3M	MAY	2	34	101.2	-	-
THORNY SKATE	3M	JUN	1	12	37.3	-	-
THORNY SKATE	3M	SEP	17	420	1170.5	-	-
THORNY SKATE	3M	OCT	13	284	667.6	-	-
THORNY SKATE	3N	FEB	1	29	68.2	-	-
THORNY SKATE	3N	APR	10	258	724.5	-	-
THORNY SKATE	3N	MAY	12	374	919.5	-	-
THORNY SKATE	3N	JUN	3	87	264.5	-	-
THORNY SKATE	3N	AUG	1	9	35.6	-	-
THORNY SKATE	3N	SEP	11	170	585.1	-	-
THORNY SKATE	3N	OCT	7	160	547.4	-	-
THORNY SKATE	3N	NOV	16	548	1750.9	-	-
THORNY SKATE	3O	FEB	1	58	168.1	-	-
THORNY SKATE	3O	APR	4	105	329.7	-	-
THORNY SKATE	3O	JUN	3	58	207.7	-	-
THORNY SKATE	3O	AUG	17	531	1838.1	-	-
THORNY SKATE	3O	OCT	7	194	645.4	-	-
THORNY SKATE	3O	NOV	14	364	1193.8	-	-
SPINYTAIL SKATE	3L	MAR	3	26	44.9	-	-
SPINYTAIL SKATE	3L	APR	3	23	76.0	-	-
SPINYTAIL SKATE	3L	MAY	14	67	396.1	-	-
SPINYTAIL SKATE	3L	JUN	3	15	70.3	-	-
SPINYTAIL SKATE	3L	SEP	2	24	51.6	-	-
SPINYTAIL SKATE	3M	FEB	1	17	24.8	-	-
SPINYTAIL SKATE	3M	MAR	20	153	523.3	-	-
SPINYTAIL SKATE	3M	APR	9	61	203.6	-	-
SPINYTAIL SKATE	3M	MAY	2	17	55.2	-	-
SPINYTAIL SKATE	3M	SEP	6	44	78.8	-	-
SPINYTAIL SKATE	3M	OCT	11	74	153.5	-	-
SPINYTAIL SKATE	3N	APR	7	47	268.0	-	-
SPINYTAIL SKATE	3N	MAY	7	35	218.1	-	-
SPINYTAIL SKATE	3N	JUN	2	11	52.8	-	-
SPINYTAIL SKATE	3N	AUG	1	9	39.4	-	-
SPINYTAIL SKATE	3N	SEP	11	66	318.1	-	-
SPINYTAIL SKATE	3N	OCT	5	39	137.3	-	-
SPINYTAIL SKATE	3N	NOV	3	17	59.1	-	-
SPINYTAIL SKATE	3O	APR	4	22	185.1	-	-
SPINYTAIL SKATE	3O	OCT	3	30	38.0	-	-
SPINYTAIL SKATE	3O	NOV	1	8	22.2	-	-
MONKFISH	3N	APR	3	29	125.3	-	-
MONKFISH	3N	OCT	2	25	74.1	-	-
MONKFISH	3N	NOV	9	39	195.3	-	-
MONKFISH	3O	APR	4	26	135.2	-	-
MONKFISH	3O	JUN	3	43	215.6	-	-
MONKFISH	3O	AUG	17	225	991.2	-	-
MONKFISH	3O	OCT	8	90	367.4	-	-
MONKFISH	3O	NOV	14	116	438.0	-	-

TABLE VI: Length-weight relationship by species, stock and sex in 2004

Species	Stock	Sex	a	b	n	r^2	Length interval (cm)
COD	3M	Total	0.0005	3.7647	4	0.9817	54-61
COD	3NO	Total	0.0063	3.1426	762	0.9911	20-121
REB	3LN	F	0.0348	2.7437	825	0.9828	19-42
REB	3LN	M	0.0151	2.9740	887	0.9828	18-42
REB	3LN	Total	0.0208	2.8851	1712	0.9766	18-42
REB	3M	F	0.0145	3.0095	1931	0.9908	13-48
REB	3M	M	0.0142	3.0026	1976	0.9933	11-45
REB	3M	Total	0.0133	3.0312	3907	0.9928	11-48
REB	3O	F	0.0746	2.4991	685	0.9586	7-42
REB	3O	M	0.0243	2.8228	674	0.9726	8-41
REB	3O	Total	0.0660	2.5307	1359	0.9653	7-42
REG	3O	F	0.0029	3.4854	45	0.9864	24-35
REG	3O	M	0.0198	2.9150	26	0.9222	26-37
REG	3O	Total	0.0069	3.2242	71	0.9767	24-37
PLA	3LNO	F	0.0062	3.1377	1694	0.9763	10-66
PLA	3LNO	M	0.0028	3.3328	1202	0.9871	21-61
PLA	3LNO	Total	0.0059	3.1496	2896	0.9771	10-66
PLA	3M	F	0.0079	3.0656	31	0.9713	33-52
PLA	3M	M	0.0008	3.6619	7	0.8259	38-42
PLA	3M	Total	0.0062	3.1289	38	0.9681	33-52
YEL	3LNO	F	0.0085	3.0343	213	0.9791	25-50
YEL	3LNO	M	0.0056	3.1523	155	0.9926	30-45
YEL	3LNO	Total	0.0089	3.0229	368	0.9857	25-50
GHL	2J3KLMNO	F	0.0033	3.2970	5162	0.9851	13-93
GHL	2J3KLMNO	M	0.0067	3.0686	5049	0.9942	14-73
GHL	2J3KLMNO	Total	0.0033	3.2956	10211	0.9854	13-93
RHG	3LMNO	F	0.3967	2.6976	2276	0.9906	4-32.5
RHG	3LMNO	M	0.6235	2.4808	1874	0.9905	4-26.5
RHG	3LMNO	Total	0.3491	2.7377	4150	0.9912	4-32.5
WIT	2J3KL	F	0.0801	2.4126	634	0.9595	30-54
WIT	2J3KL	M	0.0688	2.4528	591	0.9689	30-58
WIT	2J3KL	Total	0.0689	2.4547	1225	0.9832	30-58
WIT	3NO	F	0.0015	3.4446	296	0.9507	23-56
WIT	3NO	M	0.0089	2.9952	219	0.9397	30-58
WIT	3NO	Total	0.0016	3.4453	515	0.9561	23-58
HAL	3LMNO	Total	0.0034	3.3237	37	0.9845	67-156
HKW	3LMNO	Total	0.0098	3.0355	574	0.9926	17-99

TABLE VII-A: COD, DIV. 3N, 2004: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	APR	OCT	NOV	2nd Q.	4th Q.	YEAR	LENGTH GROUP
18		4.8			3.9	1.2	18
21		4.8			3.9	1.2	21
24							24
27	0.5	14.5		0.5	11.6	3.8	27
30	10.0	24.2	9.7	10.0	21.3	13.4	30
33	6.8	24.2	25.3	6.8	24.4	12.1	33
36	29.5	45.2	38.8	29.5	43.9	33.9	36
39	14.8	33.9	106.7	14.8	48.6	25.0	39
42	74.2	53.2	58.1	74.2	54.2	68.1	42
45	102.9	50.0	11.6	102.9	42.2	84.5	45
48	131.3	87.0	48.5	131.3	79.3	115.5	48
51	100.9	91.9	120.2	100.9	97.6	99.9	51
54	94.5	96.6	124.3	94.5	102.2	96.9	54
57	83.4	114.3	182.0	83.4	128.0	96.9	57
60	90.7	101.3	153.0	90.7	111.8	97.1	60
63	100.1	120.6	87.0	100.1	113.8	104.2	63
66	80.6	75.5		80.6	60.3	74.4	66
69	13.7	32.1	19.3	13.7	29.5	18.5	69
72	26.2	19.3	9.7	26.2	17.3	23.5	72
75	13.4	6.4		13.4	5.1	10.9	75
78	6.8			6.8		4.8	78
81	6.6			6.6		4.6	81
84	6.6			6.6		4.6	84
87							87
90	6.6			6.6		4.6	90
93							93
96							96
99							99
102							102
105							105
108							108
111							111
114							114
117							117
120			6.0		1.2	0.4	120
TOTAL	1000	1000	1000	1000	1000	1000	
No. SAMPLES	7	2	4	7	6	13	
SAMPLING WEIGHT(kg)	633	357	273	633	630	1263	
No. F.MEASURED	441	183	128	441	311	752	
MEAN LENGTH(cm)	55.8	54.4	54.1	55.8	54.3	55.4	
MEAN WEIGHT (g)	2201	2048	2019	2201	2042	2152	
DEPTH RANGE (m)	207/1007	100/205	66/102	207/1007	66/205	66/1007	

TABLE VII-B: COD, DIV. 3N, 2004:
length composition (0/000) of the 280mm trawl catch

LENGTH GROUP	4th Q. = YEAR	LENGTH GROUP
21	26.7	21
24		24
27		27
30		30
33		33
36		36
39		39
42	19.9	42
45	35.2	45
48	35.5	48
51	47.0	51
54	129.1	54
57	196.0	57
60	225.2	60
63	155.4	63
66	44.8	66
69	13.7	69
72		72
75		75
78	4.6	78
81		81
84		84
87		87
90		90
93	8.9	93
96	8.9	96
99		99
102	8.9	102
105		105
108	8.9	108
111	22.3	111
114		114
117	8.9	117
TOTAL	1000	
No. SAMPLES	10	
SAMPLING WEIGHT(kg)	400	
No. F.MEASURED	112	
MEAN LENGTH(cm)	61.4	
MEAN WEIGHT (g)	3232	
DEPTH RANGE (m)	53/102	

TABLE VIII: COD, DIV. 3O, 2004: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	APR	JUN	AUG	OCT	NOV	1st Q.	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
18						7.1				6.8	0.3	18
21						10.6				10.2	0.5	21
24						23.1				22.1	1.1	24
27						3.5				3.4	0.2	27
30			4.0	38.5		7.1		4.0	38.5	6.8	4.3	30
33		13.1		115.4		35.0		0.1	115.4	33.5	2.4	33
36	37.0	13.1	2.1	250.0		68.3	37.0	2.2	250.0	65.3	6.9	36
39	37.0	52.3	10.9	153.8		58.7	37.0	11.3	153.8	56.1	14.4	39
42	185.2	65.4	17.0	115.4		171.2	185.2	17.4	115.4	163.9	26.3	42
45	185.2	90.2	55.8	76.9		130.1	185.2	56.1	76.9	124.5	60.4	45
48	296.3	78.4	101.0	96.2		160.4	296.3	100.8	96.2	153.5	104.5	48
51	111.1	52.3	172.3	96.2		78.4	111.1	171.2	96.2	75.0	165.6	51
54	111.1	65.4	145.8	57.7	500.0	87.2	111.1	145.1	57.7	104.9	142.4	54
57	37.0	168.6	144.1			28.0	37.0	144.3		26.8	137.0	57
60		39.2	126.8			35.1		126.0		33.6	119.9	60
63		116.3	128.4			11.8		128.3		11.3	120.9	63
66		103.3	45.0		500.0	24.1		45.5		44.5	45.0	66
69		13.1	30.3			16.0		30.1		15.4	29.0	69
72		77.1	10.2			16.0		10.8		15.4	10.9	72
75		13.1	4.4			8.0		4.5		7.7	4.6	75
78						2.1				2.0	0.1	78
81		13.1				10.1		0.1		9.7	0.6	81
84												84
87		13.1				8.0		0.1		7.7	0.5	87
90			1.9					1.9			1.8	90
93												93
96												96
99												99
102		13.1						0.1			0.1	102
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	2	6	3	1	10	1	8	3	11	23	
SAMPLING WEIGHT(kg)	32	150	997	47	6	310	32	1147	47	316	1542	
No. F.MEASURED	27	62	503	52	2	212	27	565	52	214	858	
MEAN LENGTH(cm)	48.4	58.3	57.1	42.4	61.5	48.6	48.4	57.1	42.4	49.2	56.5	
MEAN WEIGHT (g)	1291	2590	2211	895	2738	1517	1291	2214	895	1569	2170	
DEPTH RANGE (m)	320/360	515/714	122/240	145/238	234/260	94/300	320/360	122/714	145/238	94/300	94/714	

TABLE IX: REDFISH (*S. mentella*), DIV. 3L, 2004: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	JAN	FEB	MAR	APR	JUN	1st Q.	2nd Q.	YEAR	LENGTH GROUP
21				1.0			0.9	0.2	21
22		2.3		2.7		1.6	2.6	1.8	22
23	11.7	5.4	8.9	7.7		7.0	7.4	7.1	23
24	12.5	20.3	46.8	37.1	20.0	22.6	36.4	25.0	24
25	57.4	24.4	65.0	69.1		36.0	66.1	41.2	25
26	145.7	88.0	123.4	130.6	40.0	103.2	126.7	107.2	26
27	222.3	155.6	110.3	68.1	60.0	161.0	67.7	145.0	27
28	74.2	106.1	135.5	186.1	100.0	104.6	182.4	118.0	28
29	142.6	94.3	122.8	126.2	120.0	106.9	126.0	110.1	29
30	96.8	132.3	139.7	114.5	60.0	127.1	112.2	124.5	30
31	41.0	79.7	48.1	55.6	80.0	68.4	56.7	66.4	31
32	105.1	73.0	89.7	59.1	100.0	81.0	60.8	77.6	32
33	32.4	71.6	44.9	57.8	180.0	60.9	63.1	61.3	33
34	19.1	87.9	9.3	65.0	100.0	64.6	66.5	64.9	34
35	19.9	38.1	26.7	9.3	40.0	33.2	10.6	29.4	35
36	6.6	14.0	20.1	8.3	40.0	13.5	9.7	12.9	36
37		4.1	8.9		20.0	4.1	0.9	3.5	37
38	6.6	2.1		1.7		2.6	1.6	2.4	38
39									39
40					40.0		1.7	0.3	40
41		0.7				0.5		0.4	41
42	5.9					1.0		0.9	42
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	2	9	2	6	1	13	7	20	
SAMPLING WEIGHT(kg)	56	280	76	217	23	412	240	652	
No. F.MEASURED	160	720	204	596	50	1084	646	1730	
MEAN LENGTH(cm)	29.2	30.2	29.3	29.3	31.9	29.9	29.5	29.8	
MEAN WEIGHT (g)	364	400	368	368	469	389	373	386	
DEPTH RANGE (m)	732/870	743/964	837/952	786/1036	1100/1153	732/964	786/1153	732/1153	

TABLE X: REDFISH (*S. mentella*), DIV. 3M, 2004: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	JAN	FEB	MAR	APR	JUN	SEP	OCT	1st Q.	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
11							0.2				0.2	0.1	11
12													12
13						0.2	0.5			0.2	0.5	0.3	13
14						0.4	1.6			0.4	1.6	1.0	14
15						2.8	4.3			2.8	4.3	3.4	15
16						10.6	24.7			10.6	24.7	16.9	16
17			0.04			16.2	44.7	0.0		16.2	44.7	29.1	17
18		2.9				21.1	58.4	0.9		21.1	58.4	38.0	18
19			0.1	0.3		38.8	66.2	0.1	0.3	38.8	66.2	50.2	19
20		3.7	0.1	3.0		76.8	125.0	1.2	2.9	76.8	125.0	96.5	20
21		4.5	0.2	5.0		113.4	152.4	1.5	5.0	113.4	152.4	127.2	21
22	4.4		0.8	6.7		111.3	152.3	0.7	6.7	111.3	152.3	126.1	22
23	2.0	0.5	2.4	16.8		71.4	96.1	1.8	16.7	71.4	96.1	80.3	23
24	10.5	33.9	17.1	18.6		74.4	71.2	21.9	18.4	74.4	71.2	70.5	24
25	19.3	37.1	65.3	37.8	40.0	61.2	56.4	55.9	37.8	61.2	56.4	58.5	25
26	134.7	91.7	87.5	83.5	60.0	54.3	30.2	89.8	83.3	54.3	30.2	44.2	26
27	142.6	103.4	113.0	110.6	100.0	58.7	25.6	110.8	110.5	58.7	25.6	45.2	27
28	137.4	115.5	127.9	106.9	80.0	56.0	18.7	124.4	106.7	56.0	18.7	41.0	28
29	121.4	93.4	105.6	97.9	20.0	41.0	16.9	102.3	97.4	41.0	16.9	32.1	29
30	200.4	97.9	103.5	96.8	80.0	38.9	11.0	103.9	96.7	38.9	11.0	28.3	30
31	175.7	92.8	74.2	108.7	120.0	27.2	10.4	81.9	108.7	27.2	10.4	21.8	31
32	10.8	91.8	88.7	62.8	120.0	28.4	10.6	88.0	63.2	28.4	10.6	22.2	32
33	20.3	95.6	81.8	83.0	100.0	31.1	8.9	84.6	83.1	31.1	8.9	22.8	33
34	6.1	75.7	62.2	92.1	100.0	16.6	4.2	65.0	92.2	16.6	4.2	13.0	34
35	6.1	8.3	31.1	22.5	100.0	8.4	1.5	23.8	23.1	8.4	1.5	5.8	35
36	6.1	34.8	15.1	17.4	60.0	6.2	1.3	20.8	17.7	6.2	1.3	4.4	36
37		8.0	13.9	16.4		5.3	1.2	11.8	16.3	5.3	1.2	3.6	37
38	2.0	2.9	3.2	7.8	20.0	6.4	1.3	3.1	7.8	6.4	1.3	3.9	38
39		0.5	1.6	1.9		4.2	1.2	1.2	1.9	4.2	1.2	2.7	39
40		4.5	1.2	1.6		4.4	0.9	2.1	1.6	4.4	0.9	2.6	40
41		0.6	1.4	1.6		6.1	1.1	1.1	1.6	6.1	1.1	3.5	41
42			1.3	0.2		2.0	0.4	0.9	0.2	2.0	0.4	1.2	42
43			0.9			2.9	0.2	0.6		2.9	0.2	1.5	43
44						1.6	0.5			1.6	0.5	1.0	44
45						1.1				1.1		0.5	45
46						0.8				0.8		0.4	46
47													47
48							0.1				0.1	0.1	48
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	3	9	31	21	1	17	13	43	22	17	13	95	
SAMPLING WEIGHT(kg)	79	271	1546	806	24	1606	884	1896	830	1606	884	5215	
No. F.MEASURED	240	720	3842	2132	50	5482	4462	4802	2182	5482	4462	16928	
MEAN LENGTH(cm)	29.3	30.2	30.2	30.3	31.7	25.6	22.7	30.2	30.3	25.6	22.7	24.4	
MEAN WEIGHT (g)	375	421	416	422	479	279	188	417	422	279	188	241	
DEPTH RANGE (m)	782/968	837/1030	772/1156	330/1140	1075/1106	307/456	305/480	772/1156	330/1140	307/456	305/480	305/1156	

TABLE XI: REDFISH (*S. mentella*), DIV. 3N, 2004: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	APR	MAY	JUN	SEP	OCT	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
18		0.5		3.7		0.2	3.7		0.8	18
19				3.7	10.0		3.7	10.0	6.0	19
20	0.2			3.7	39.9	0.1	3.7	39.9	22.0	20
21	0.5			18.7	79.8	0.3	18.7	79.8	46.2	21
22	1.9	4.1		26.1	99.8	2.7	26.1	99.8	58.9	22
23	6.9	7.5		26.1	99.8	6.6	26.1	99.8	60.0	23
24	12.5	11.2		41.0	79.8	10.9	41.0	79.8	53.5	24
25	39.3	50.1	15.6	70.9	79.8	41.7	70.9	79.8	67.7	25
26	96.2	89.2	8.2	89.6	99.8	86.0	89.6	99.8	94.0	26
27	99.9	106.3	15.6	126.9	70.0	95.5	126.9	70.0	88.0	27
28	117.9	68.9	22.9	145.5	50.1	90.2	145.5	50.1	79.6	28
29	109.3	74.1	31.1	115.7	50.1	88.6	115.7	50.1	73.4	29
30	91.2	79.8	61.3	119.4	89.9	84.1	119.4	89.9	94.1	30
31	60.1	81.5	156.4	56.0	40.2	76.7	56.0	40.2	53.3	31
32	92.3	104.6	149.9	41.0	50.1	102.1	41.0	50.1	62.5	32
33	102.0	102.1	181.0	48.5	40.1	108.6	48.5	40.1	60.4	33
34	74.4	100.5	139.1	3.7	0.1	90.3	3.7	0.1	25.4	34
35	32.6	55.0	130.9	3.7	10.1	49.8	3.7	10.1	19.7	35
36	23.6	35.6	44.1	22.4	0.1	30.1	22.4	0.1	12.6	36
37	11.4	14.1	14.7	3.7	0.1	12.7	3.7	0.1	4.3	37
38	10.8	7.9	7.3	7.5		9.3	7.5		4.0	38
39	7.8	0.8	14.7	11.2	10.0	5.5	11.2	10.0	9.0	39
40	4.3	5.1	7.3	11.2		4.9	11.2		3.5	40
41	3.1	0.9				2.0			0.5	41
42	2.0					1.0			0.3	42
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	10	10	2	1	2	22	1	2	25	
SAMPLING WEIGHT(kg)	684	503	69	100	52	1256	100	52	1408	
No. F.MEASURED	1628	1135	129	268	140	2892	268	140	3300	
MEAN LENGTH(cm)	30.6	30.9	33.1	28.8	26.5	30.9	28.8	26.5	28.2	
MEAN WEIGHT (g)	420	431	516	357	286	432	357	286	340	
DEPTH RANGE (m)	548/1100	719/1251	790/985	326/553	463/787	548/1251	326/553	463/787	326/1251	

TABLE XII-A: REDFISH (*S. mentella*), DIV. 3O, 2004:
length composition (0/000) of the 60mm trawl catches.

LENGTH GROUP	AUG = YEAR	LENGTH GROUP
7	20.4	7
8	20.4	8
9	40.8	9
10	20.4	10
11	20.4	11
12	20.4	12
13		13
14	20.4	14
15		15
16	40.8	16
17	20.4	17
18	20.4	18
19	40.8	19
20	61.2	20
21	122.4	21
22	61.2	22
23	163.3	23
24	163.3	24
25	102.0	25
26	40.8	26
TOTAL	1000	
No. SAMPLES	1	
SAMPLING WEIGHT(kg)	8	
No. F.MEASURED	49	
MEAN LENGTH(cm)	20.7	
MEAN WEIGHT (g)	152	
DEPTH RANGE (m)	153/198	

TABLE XII-B: REDFISH (*S. mentella*), DIV. 3O, 2004: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	MAR	APR	JUN	AUG	OCT	NOV	1st Q.	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
7					0.3					0.3		0.1	7
8					1.0					1.0		0.2	8
9					1.0					1.0		0.2	9
10					1.0					1.0		0.2	10
11					2.2					2.2		0.4	11
12					3.1					3.1		0.7	12
13					1.4					1.4		0.3	13
14					0.3					0.3		0.1	14
15					4.0	0.2				4.0	0.1	0.9	15
16					7.5		0.5			7.5	0.3	1.7	16
17				1.9	24.8	4.7	2.1		1.7	24.8	2.8	6.7	17
18				3.1	40.4	11.5	6.1		2.7	40.4	7.5	11.7	18
19		12.2	3.0	22.2	60.0	13.0	23.7	7.7	20.0	60.0	21.0	27.9	19
20	7.2	7.3	15.6	45.7	110.2	43.1	56.7	7.3	42.2	110.2	53.3	57.4	20
21	60.4	17.1	40.2	119.3	163.0	75.5	109.4	33.1	110.2	163.0	100.9	114.3	21
22	70.4	25.4	64.1	179.0	192.2	96.6	158.6	42.0	165.8	192.2	143.0	158.1	22
23	102.1	39.1	66.8	212.2	148.1	97.8	169.6	62.3	195.5	148.1	151.6	166.1	23
24	69.0	25.5	63.2	154.6	109.5	79.9	120.7	41.5	144.1	109.5	110.5	121.9	24
25	73.4	11.6	57.1	105.6	70.2	81.9	106.5	34.4	100.0	70.2	100.3	90.1	25
26	31.6	32.2	38.3	55.8	28.2	74.3	79.8	32.0	53.8	28.2	78.4	53.9	26
27	15.9	53.7	65.5	44.0	17.9	65.3	50.5	39.8	46.5	17.9	54.2	42.2	27
28	27.8	54.0	68.8	27.3	8.0	74.6	38.9	44.4	32.1	8.0	47.9	32.0	28
29	31.9	56.0	79.8	14.3	2.2	83.5	22.5	47.1	21.9	2.2	37.8	23.5	29
30	23.1	114.8	103.1	7.6	1.6	74.4	15.9	81.0	18.6	1.6	30.6	21.8	30
31	78.7	97.4	74.8	3.8	1.1	46.5	11.1	90.5	12.0	1.1	20.0	16.3	31
32	93.8	131.4	72.2	1.3	0.3	36.6	12.7	117.5	9.4	0.3	18.7	16.2	32
33	92.8	100.0	64.5	2.3	0.4	21.2	7.5	97.3	9.5	0.4	11.0	13.0	33
34	90.8	113.3	50.9			11.8	7.4	105.0	5.9		8.5	11.0	34
35	73.7	43.2	30.1			2.3		54.5	3.5		0.6	4.9	35
36	27.2	34.1	33.2			2.8		31.5	3.8		0.7	3.8	36
37	14.1	12.3	2.2			2.3		12.9	0.3		0.6	1.0	37
38	9.0	8.6	1.6					8.7	0.2			0.6	38
39		3.5	2.7					2.2	0.3			0.3	39
40	7.1		1.1					2.6	0.1			0.2	40
41		3.7						2.3				0.1	41
42		3.6	1.1					2.3	0.1			0.2	42
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	3	5	9	6	15	4	8	8	15	15	12	50	
SAMPLING WEIGHT(kg)	139	170	435	371	641	277	472	309	806	641	750	2506	
No. F.MEASURED	463	400	1331	1702	3388	1104	2133	863	3033	3388	3237	10521	
MEAN LENGTH(cm)	29.2	30.8	28.8	23.9	22.3	26.2	24.4	30.2	24.4	22.3	24.9	24.4	
MEAN WEIGHT (g)	362	405	342	202	170	267	216	389	218	170	229	221	
DEPTH RANGE (m)	320/701	385/966	246/804	140/443	142/465	305/551	94/580	320/966	140/804	142/465	94/580	94/966	

TABLE XIII: REDFISH (*S. marinus*), DIV. 3O, 2004:
length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	JUN = YEAR	LENGTH GROUP
20	20.6	20
21	17.2	21
22	46.3	22
23	80.6	23
24	77.2	24
25	66.9	25
26	85.8	26
27	101.2	27
28	133.8	28
29	113.2	29
30	75.5	30
31	66.9	31
32	53.2	32
33	30.9	33
34	17.2	34
35	10.3	35
36	1.7	36
37	1.7	37
TOTAL	1000	
No. SAMPLES	5	
SAMPLING WEIGHT(kg)	195	
No. F.MEASURED	583	
MEAN LENGTH(cm)	27.8	
MEAN WEIGHT (g)	333	
DEPTH RANGE (m)	160/330	

TABLE XIV: AMERICAN PLAICE, DIV. 3L, 2004: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	MAR	APR	MAY	JUN	1st Q.	2nd Q.	YEAR	LENGTH GROUP
22	4.7				4.7		2.7	22
24								24
26	17.7	3.6	6.5	3.2	17.7	4.5	12.0	26
28	19.6	7.3	24.6	8.9	19.6	14.0	17.2	28
30	20.9	20.5	11.4	38.0	20.9	24.0	22.3	30
32	28.3	45.6	106.7	78.7	28.3	79.8	50.3	32
34	58.7	99.3	129.4	122.4	58.7	118.7	84.3	34
36	141.7	150.0	140.4	111.8	141.7	131.9	137.5	36
38	119.0	223.1	124.0	150.0	119.0	160.2	136.6	38
40	124.2	159.9	136.4	92.0	124.2	125.6	124.8	40
42	154.7	69.3	163.8	102.9	154.7	115.4	137.9	42
44	146.4	59.0	44.0	82.7	146.4	62.8	110.7	44
46	73.4	85.2	57.1	84.8	73.4	75.2	74.2	46
48	44.9	41.8	16.5	75.0	44.9	45.7	45.2	48
50	15.0	11.1	23.0	23.6	15.0	20.1	17.2	50
52	22.6	11.4	9.8	9.7	22.6	10.2	17.3	52
54	8.3	7.3	3.3	16.3	8.3	9.3	8.7	54
56		1.8	3.3			1.6	0.7	56
58								58
60		1.8				0.5	0.2	60
62		1.8				0.5	0.2	62
TOTAL	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	4	6	5	5	4	16	20	
SAMPLING WEIGHT(kg)	228	254	144	269	228	667	895	
No. F.MEASURED	324	367	222	402	324	991	1315	
MEAN LENGTH(cm)	41.1	40.3	39.5	40.6	41.1	40.1	40.7	
MEAN WEIGHT (g)	748	702	663	729	748	699	727	
DEPTH RANGE (m)	853/990	86/1177	95/1189	66/1187	853/990	666/1189	666/1189	

TABLE XV: AMERICAN PLAICE, DIV. 3M, 2004: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	MAR	APR	JUN	1st Q.	2nd Q.	YEAR	LENGTH GROUP
22		1.7			1.6		1.1	22
24		1.7			1.6		1.1	24
26								26
28		9.8	24.8		8.9	20.0	12.0	28
30		38.3	51.9		34.9	41.8	36.8	30
32	75.3	65.4	67.9	71.4	66.3	68.6	66.9	32
34	49.3	64.3	90.4	119.0	63.0	96.0	72.1	34
36	113.6	99.7	111.5	142.9	101.0	117.6	105.6	36
38	164.3	109.9	130.2	166.7	114.7	137.3	121.0	38
40	113.6	94.9	87.8	190.5	96.6	107.8	99.7	40
42	130.0	130.6	83.7	119.0	130.6	90.6	119.5	42
44	53.3	124.4	135.1	23.8	118.1	113.4	116.8	44
46	54.6	94.5	48.3	71.4	91.0	52.8	80.4	46
48	95.6	59.7	50.5	47.6	62.9	50.0	59.3	48
50	109.3	48.8	24.2	23.8	54.1	24.1	45.8	50
52	41.0	33.4	40.9	23.8	34.1	37.6	35.0	52
54		17.8	48.5		16.2	39.1	22.6	54
56		4.0	4.2		3.7	3.4	3.6	56
58		1.0			0.9		0.7	58
TOTAL	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	2	16	7	1	18	8	26	
SAMPLING WEIGHT(kg)	62	530	149	28	592	176	768	
No. F.MEASURED	77	687	205	42	764	247	1011	
MEAN LENGTH(cm)	42.5	41.9	41.3	40.5	42.0	41.1	41.7	
MEAN WEIGHT (g)	812	785	757	690	788	744	776	
DEPTH RANGE (m)	873/980	804/1152	848/1140	1012/1055	804/1152	848/1140	804/1152	

TABLE XVI-A: AMERICAN PLAICE, DIV. 3N, 2004: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	APR	MAY	JUN	OCT	NOV	1st Q.	2nd Q.	4th Q.	YEAR	LENGTH GROUP
20			6.3					1.6		0.1	20
22		0.7	12.1			0.6		3.4	0.5	0.8	22
24		0.7	27.8	4.8	2.4	7.3		9.2	6.4	6.6	24
26		15.8	52.9		21.2	38.4		20.0	35.3	33.9	26
28	125.0	50.4	117.0	9.7	34.2	71.5	125.0	53.6	64.6	63.8	28
30	150.0	86.0	107.4	21.9	74.3	85.9	150.0	69.2	83.8	82.7	30
32	212.5	145.3	138.4	70.9	106.4	108.3	212.5	117.5	107.9	109.0	32
34	187.5	165.8	70.6	100.6	74.6	103.0	187.5	118.2	97.8	99.8	34
36	50.0	95.8	60.2	178.5	147.5	103.3	50.0	115.4	111.4	111.6	36
38	62.5	97.4	76.2	119.5	169.7	78.2	62.5	99.6	95.0	95.3	38
40	125.0	69.7	79.2	78.0	83.8	86.3	125.0	75.1	85.8	85.0	40
42	25.0	67.4	93.1	56.1	95.5	76.5	25.0	70.1	80.0	79.0	42
44	25.0	65.9	80.6	117.3	52.0	82.0	25.0	87.7	76.5	77.3	44
46	25.0	43.9	38.5	51.2	20.2	70.4	25.0	45.1	61.2	59.7	46
48	12.5	39.5	22.3	102.1	12.0	37.9	12.5	56.8	33.1	35.1	48
50		24.5	8.2	46.1	33.2	20.1		27.8	22.5	22.9	50
52		12.4	5.0	24.1	47.2	9.2		14.6	16.2	16.0	52
54		10.4	2.6	4.8	4.8	9.9		6.4	8.9	8.7	54
56		1.5	1.5	9.7		3.1		4.4	2.6	2.7	56
58		1.1		4.8		3.9		2.1	3.2	3.1	58
60		5.1			10.6	1.9		2.0	3.5	3.3	60
62		0.5				0.4		0.2	0.3	0.3	62
64					10.6	1.7			3.3	3.1	64
66						0.2			0.2	0.1	66
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	15	12	2	2	10	1	29	12	42	
SAMPLING WEIGHT(kg)	40	739	545	127	99	1563	40	1412	1662	3114	
No. F.MEASURED	80	1249	977	176	133	2579	80	2402	2712	5194	
MEAN LENGTH(cm)	35.3	38.2	36.2	41.2	39.3	38.4	35.3	38.7	38.6	38.6	
MEAN WEIGHT (g)	454	617	533	774	686	639	454	650	648	647	
DEPTH RANGE (m)	1020/1147	55/1020	780/1251	795/985	57/187	66/160	1020/1147	55/1251	57/187	55/1251	

TABLE XVI-B: AMERICAN PLAICE, DIV. 3N, 2004:
length composition (0/000) of the 280mm trawl catches.

LENGTH GROUP	OCT	NOV	4th Q. = YEAR	LENGTH GROUP
26		46.9	46.8	26
28		46.9	46.8	28
30	47.6	9.6	9.7	30
32	23.8	112.8	112.6	32
34	119.0	150.8	150.8	34
36	95.2	114.9	114.9	36
38	23.8	96.3	96.2	38
40		31.7	31.7	40
42	47.6	62.2	62.1	42
44	23.8	43.0	42.9	44
46	119.0	91.3	91.4	46
48	119.0	69.2	69.3	48
50	71.4	7.0	7.2	50
52	95.2	5.5	5.7	52
54	71.4	13.6	13.7	54
56	95.2	23.3	23.4	56
58	23.8	31.5	31.5	58
60	23.8	21.6	21.6	60
62		20.6	20.6	62
64		1.0	1.0	64
66		0.2	0.2	66
TOTAL	1000	1000	1000	
No. SAMPLES	1	7	8	
SAMPLING WEIGHT(kg)	48	573	621	
No. F.MEASURED	42	436	478	
MEAN LENGTH(cm)	46.3	40.8	40.8	
MEAN WEIGHT (g)	1158	815	815	
DEPTH RANGE (m)	64/70	53/102	53/102	

TABLE XVII-A: AMERICAN PLAICE, DIV. 3O, 2004:
length composition (0/000) of the 60mm trawl catches.

LENGTH GROUP	AUG = YEAR	LENGTH GROUP
32	36.4	32
34	54.5	34
36	127.3	36
38	163.6	38
40	18.2	40
42	109.1	42
44	127.3	44
46	18.2	46
48		48
50	36.4	50
52		52
54	54.5	54
56	90.9	56
58	72.7	58
60	72.7	60
62		62
64		64
66	18.2	66
TOTAL	1000	
No. SAMPLES	1	
SAMPLING WEIGHT(kg)	67	
No. F.MEASURED	55	
MEAN LENGTH(cm)	46.2	
MEAN WEIGHT (g)	1169	
DEPTH RANGE (m)	176/187	

TABLE XVII-B: AMERICAN PLAICE, DIV. 3O, 2004: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	MAR	APR	JUN	AUG	OCT	NOV	1st Q.	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
10							0.4				0.4	0.2	10
12													12
14													14
16													16
18													18
20													20
22			1.6				1.5		0.8		1.4	1.0	22
24			1.6				2.7		0.8		2.5	1.6	24
26		10.9	7.8		5.8	2.6	9.3	7.1	3.8	5.8	8.9	7.0	26
28	11.6	27.5	36.3	23.3	13.8	15.7	40.4	22.1	29.7	13.8	38.8	32.7	28
30	84.1	49.4	125.4	32.8	24.1	33.7	79.6	61.3	78.0	24.1	76.7	72.2	30
32	166.5	165.1	209.2	36.0	90.7	58.4	109.9	165.6	120.5	90.7	106.6	116.5	32
34	204.1	167.6	165.7	62.8	121.6	128.5	115.0	180.1	113.0	121.6	115.9	122.5	34
36	78.4	115.8	65.4	100.8	124.7	133.3	128.4	103.0	83.5	124.7	128.7	111.8	36
38	102.0	47.3	30.5	94.5	105.5	109.0	106.7	66.0	63.3	105.5	106.9	89.0	38
40	14.4	14.4	28.6	61.1	67.2	79.1	73.1	14.4	45.2	67.2	73.5	57.9	40
42	33.6	34.2	25.1	82.2	67.5	121.2	85.3	34.0	54.4	67.5	87.6	70.3	42
44	133.7	71.2	40.1	110.0	97.4	81.4	79.6	92.6	75.9	97.4	79.7	81.1	44
46	51.5	64.9	24.8	121.5	71.1	80.6	60.9	60.3	74.3	71.1	62.2	66.2	46
48	28.2	129.1	42.4	100.1	61.7	49.6	27.7	94.5	72.0	61.7	29.1	51.4	48
50	31.2	76.1	44.7	41.1	30.6	51.4	15.2	60.7	42.8	30.6	17.5	30.8	50
52	25.0	12.7	58.2	52.2	30.9	23.5	18.5	16.9	55.1	30.9	18.8	30.4	52
54	17.9	7.2	39.0	49.1	25.5	22.7	12.8	10.9	44.2	25.5	13.4	23.2	54
56	12.7	6.8	25.8	20.3	22.6	6.3	13.7	8.8	22.9	22.6	13.2	16.2	56
58	5.2		11.7	4.9	17.2	3.0	8.9	1.8	8.2	17.2	8.5	8.2	58
60			8.9	6.1	14.1		6.9		7.5	14.1	6.4	6.5	60
62			7.4	1.3	8.1		2.3		4.3	8.1	2.2	2.9	62
64							0.7				0.7	0.4	64
66							0.4				0.4	0.2	66
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	3	4	8	5	15	4	11	7	13	15	15	50	
SAMPLING WEIGHT(kg)	160	232	463	596	684	299	1230	392	1059	684	1529	3664	
No. F.MEASURED	240	320	683	665	942	405	1735	560	1348	942	2140	4990	
MEAN LENGTH(cm)	39.2	40.0	39.5	43.6	42.0	41.2	39.4	39.8	41.6	42.0	39.5	40.3	
MEAN WEIGHT (g)	674	716	739	928	845	770	692	702	836	845	697	749	
DEPTH RANGE (m)	409/701	385/637	365/840	122/240	130/405	94/260	94/300	385/701	122/840	130/405	94/300	94/840	

TABLE XVII-C: AMERICAN PLAICE, DIV. 3O, 2004:
length composition (0/000) of the 280mm trawl catche

LENGTH GROUP	OCT = YEAR	LENGTH GROUP
26	20.0	26
28	20.0	28
30	60.0	30
32	120.0	32
34	200.0	34
36	180.0	36
38	100.0	38
40	20.0	40
42	20.0	42
44	40.0	44
46	80.0	46
48		48
50	40.0	50
52	60.0	52
54		54
56	20.0	56
58	20.0	58
TOTAL	1000	
No. SAMPLES	1	
SAMPLING WEIGHT(kg)	34	
No. F.MEASURED	50	
MEAN LENGTH(cm)	39.3	
MEAN WEIGHT (g)	693	
DEPTH RANGE (m)	67/83	

TABLE XVIII-A: YELLOWTAIL FLOUNDER, DIV. 3N, 2004: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	APR	OCT	NOV	2nd Q.	4th Q.	YEAR	LENGTH GROUP
24			3.1		2.5	2.0	24
26	1.1		12.4	1.1	9.8	8.1	26
28	1.1	40.0	33.0	1.1	34.5	27.7	28
30	81.0	66.7	71.1	81.0	70.2	72.4	30
32	147.1	133.3	100.3	147.1	107.1	115.3	32
34	212.8	160.0	118.6	212.8	127.2	144.7	34
36	174.1	200.0	148.8	174.1	159.4	162.4	36
38	136.7	160.0	186.5	136.7	181.0	171.9	38
40	159.3	120.0	140.8	159.3	136.5	141.2	40
42	39.4	53.3	93.2	39.4	85.0	75.7	42
44	29.7	53.3	45.6	29.7	47.2	43.6	44
46	6.6	13.3	14.7	6.6	14.4	12.8	46
48	5.5		14.7	5.5	11.6	10.4	48
50	3.3		5.6	3.3	4.4	4.2	50
52	2.2		7.4	2.2	5.9	5.1	52
54			4.1		3.3	2.6	54
TOTAL	1000	1000	1000	1000	1000	1000	
No. SAMPLES	3	1	8	3	9	12	
SAMPLING WEIGHT(kg)	205	37	723	205	761	966	
No. F.MEASURED	432	75	1462	432	1537	1969	
MEAN LENGTH(cm)	37.1	37.1	38.0	37.1	37.8	37.6	
MEAN WEIGHT (g)	507	509	553	507	544	537	
DEPTH RANGE (m)	55/89	57/70	66/160	55/89	57/160	55/160	

TABLE XVIII-B: YELLOWTAIL FLOUNDER, DIV. 3N, 2004:
length composition (0/000) of the 280mm trawl catches.

LENGTH GROUP	OCT	NOV	4th Q. = YEAR	LENGTH GROUP
30	125.0	35.7	35.8	30
32		104.0	103.9	32
34	250.0	75.2	75.4	34
36	125.0	221.3	221.2	36
38	125.0	288.8	288.6	38
40		153.2	153.1	40
42	125.0	46.7	46.8	42
44		40.1	40.0	44
46	250.0	7.9	8.1	46
48		23.0	23.0	48
50		1.1	1.1	50
52		1.5	1.5	52
54		0.7	0.7	54
56		0.9	0.9	56
TOTAL	1000	1000	1000	
No. SAMPLES	1	6	7	
SAMPLING WEIGHT(kg)	5	195	200	
No. F.MEASURED	8	296	304	
MEAN LENGTH(cm)	39.3	38.4	38.4	
MEAN WEIGHT (g)	616	562	562	
DEPTH RANGE (m)	64/70	53/102	53/102	

TABLE XIX: GREENLAND HALIBUT, DIV. 3L, 2004: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	JAN	FEB	MAR	APR	MAY	JUN	SEP	1st Q.	2nd Q.	3rd Q.	YEAR	LENGTH GROUP
24			7.6					2.0			1.1	24
26			9.7	0.7		1.0		2.6	0.4		1.6	26
28		0.4	13.8	6.0		4.9		3.9	2.7		3.3	28
30	13.5	3.1	53.7	3.8	1.1	5.2		18.2	2.7		11.0	30
32	14.1	13.0	52.3	23.8	9.0	18.7		23.6	15.1		19.3	32
34	21.6	71.3	96.5	38.9	10.9	21.9	5.0	69.9	20.7	5.0	46.9	34
36	79.2	96.6	93.1	95.4	42.2	53.6	6.1	92.8	58.8	6.1	76.0	36
38	155.9	145.8	166.9	109.2	88.8	95.8	6.1	153.0	95.8	6.1	124.6	38
40	138.0	151.9	145.3	116.5	165.9	134.1	47.7	147.9	145.9	47.7	144.7	40
42	107.6	131.9	106.7	148.0	151.7	124.9	196.0	121.3	144.9	196.0	133.3	42
44	188.5	105.2	66.9	128.4	121.4	106.5	54.6	108.7	120.0	54.6	112.4	44
46	90.5	88.0	51.8	84.6	122.3	103.6	148.0	78.8	108.2	148.0	93.2	46
48	136.6	73.4	67.1	74.2	105.3	86.8	87.3	82.1	93.0	87.3	87.0	48
50	10.9	48.4	18.9	46.8	62.4	80.8	105.5	34.5	62.2	105.5	48.2	50
52	1.2	31.1	8.7	28.8	40.0	51.0	92.1	20.3	39.4	92.1	30.3	52
54	35.0	15.3	15.4	33.3	24.7	27.6	46.4	18.5	27.6	46.4	23.2	54
56	0.8	23.1	5.8	20.9	15.7	20.4	30.3	14.8	18.1	30.3	16.6	56
58	5.2	0.5	3.7	16.1	12.8	15.2	21.2	2.1	14.2	21.2	7.8	58
60	0.4	1.0	2.6	6.1	7.0	14.6	64.7	1.3	8.4	64.7	5.9	60
62	0.8		3.5	4.4	4.2	6.2	22.3	1.0	4.7	22.3	3.1	62
64	0.4		1.3	4.4	3.6	5.7	35.3	0.4	4.3	35.3	2.9	64
66			1.1	0.6	2.0	4.4		0.3	2.2		1.1	66
68			3.3	3.1	1.7	3.3	10.1	0.9	2.4	10.1	1.7	68
70			1.1	0.8	2.0	1.9	5.0	0.3	1.7	5.0	1.0	70
72				2.7	1.5	1.0	5.0		1.7	5.0	0.9	72
74			2.2		0.8	2.6		0.6	1.0		0.7	74
76			1.1	0.8	1.1	3.1	6.1	0.3	1.4	6.1	0.9	76
78					0.5	2.6			0.8		0.4	78
80				1.4	0.7	0.7			0.9		0.4	80
82					0.5	1.4			0.5		0.2	82
84						0.7			0.1		0.1	84
86							5.0			5.0	0.1	86
88												88
90												90
92					0.3				0.1		0.1	92
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	4	11	7	10	16	8	2	22	34	2	58	
SAMPLING WEIGHT(kg)	259	685	494	1138	2608	1327	249	1438	5073	249	6760	
No. F.MEASURED	320	880	720	1299	2768	1351	178	1920	5418	178	7516	
MEAN LENGTH(cm)	43.4	43.0	40.8	44.3	45.5	45.9	50.5	42.5	45.2	50.5	43.9	
MEAN WEIGHT (g)	798	788	700	901	964	1029	1410	767	961	1410	866	
DEPTH RANGE (m)	732/1010	743/964	837/1043	786/1138	817/1248	663/1223	940/1130	732/1043	663/1248	940/1130	663/1248	

TABLE XX: GREENLAND HALIBUT, DIV. 3M, 2004: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	JAN	FEB	MAR	APR	MAY	JUN	SEP	OCT	1st Q.	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
28			0.3						0.2				0.1	28
30		0.5	1.6	0.8		45.1	2.8	2.8	1.1	2.9	2.8	2.8	1.4	30
32	1.0	0.8	7.6	3.1	13.4	38.3	22.6	30.5	4.8	5.7	22.6	30.5	5.2	32
34		10.7	14.2	18.3	26.9	35.8	31.9	41.3	12.3	19.8	31.9	41.3	13.7	34
36	2.1	43.7	32.3	22.5	15.3	84.3	95.0	67.6	35.1	25.0	95.0	67.6	34.0	36
38	7.6	58.4	71.2	50.0	97.0	106.5	90.4	127.8	63.7	56.6	90.4	127.8	63.2	38
40	132.5	110.4	107.3	85.9	117.4	70.7	128.6	156.1	109.6	87.7	128.6	156.1	106.7	40
42	131.3	110.0	116.1	119.3	139.6	149.1	148.8	174.5	114.6	122.4	148.8	174.5	116.3	42
44	214.7	139.1	122.1	105.4	100.2	158.4	138.5	147.3	132.5	107.6	138.5	147.3	128.9	44
46	127.3	125.7	122.8	124.3	139.2	80.1	123.7	93.8	124.0	123.4	123.7	93.8	123.7	46
48	108.3	82.6	110.7	128.8	74.8	61.3	83.1	80.1	100.4	121.0	83.1	80.1	103.3	48
50	138.5	98.3	94.3	79.6	76.7	26.4	32.5	43.4	97.7	76.8	32.5	43.4	94.0	50
52	49.7	62.9	63.7	78.2	77.8	30.7	52.1	23.4	62.8	75.8	52.1	23.4	64.4	52
54	58.9	59.9	55.8	77.3	22.6	26.4	22.6	5.3	57.4	70.3	22.6	5.3	58.8	54
56	10.8	48.0	42.1	36.1	46.2	6.8	14.5	2.7	42.8	35.5	14.5	2.7	41.3	56
58	6.4	27.1	18.8	18.6	11.1	20.4		3.4	21.2	18.1		3.4	20.5	58
60	4.3	10.9	12.6	14.1	17.5	29.8	12.9		11.6	15.1	12.9		12.1	60
62	1.0	7.1	3.2	7.7	3.8	3.4			4.5	7.2			4.8	62
64	3.2	2.6	1.0	6.0	7.5	6.8			1.7	6.1			2.3	64
66	1.0	1.1	0.8	7.0	9.2	12.8			0.9	7.4			1.9	66
68	1.0	0.4	0.7	5.1	1.9				0.6	4.6			1.2	68
70			0.5	3.6	1.9	3.4			0.3	3.4			0.8	70
72			0.2	3.3					0.1	2.8			0.5	72
74			0.2	2.1					0.1	1.8			0.4	74
76				0.8		3.4				0.9			0.1	76
78				1.5						1.3			0.2	78
80				0.5						0.4			0.1	80
82														82
84														84
86				0.2						0.2			0.03	86
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	5	20	43	22	3	2	10	13	68	27	10	13	118	
SAMPLING WEIGHT(kg)	390	1616	4754	2551	237	135	224	433	6760	2923	224	433	10340	
No. F.MEASURED	400	1646	5224	2422	224	134	264	604	7270	2780	264	604	10918	
MEAN LENGTH(cm)	47.1	47.1	46.8	48.2	46.5	44.3	44.1	43.0	46.9	47.8	44.1	43.0	47.0	
MEAN WEIGHT (g)	1023	1057	1035	1166	1055	941	856	780	1042	1146	856	780	1055	
DEPTH RANGE (m)	729/976	837/1030	772/1133	410/1162	947/1031	1012/1106	307/435	305/480	729/1133	410/1162	307/435	305/480	305/1162	

TABLE XXI: GREENLAND HALIBUT, DIV. 3N, 2004: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	MAR	APR	MAY	JUN	AUG	SEP	OCT	NOV	1st Q.	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
20				0.4							0.3			0.2	20
22			2.5	1.6							1.8			1.2	22
24			1.7	12.7	2.0		2.0	1.2			8.9	1.8	1.0	6.5	24
26			9.7	8.5	2.0		1.7	6.1	3.6		8.5	1.5	5.7	6.5	26
28	5.5		10.9	29.3	3.9		2.2	5.5	5.3	5.0	22.4	2.0	5.5	16.2	28
30	11.0		47.0	66.9	15.7	5.0	3.5	14.8	15.3	10.0	58.1	3.7	14.9	41.6	30
32	12.3		74.0	91.7	24.4	5.0	21.8	59.8	46.2	11.2	82.7	20.2	57.4	64.9	32
34	39.9		62.9	118.2	35.5	39.6	40.8	67.5	95.9	36.3	97.2	40.7	72.5	81.1	34
36	64.5		80.7	124.1	57.8	59.4	57.8	85.5	101.1	58.8	107.5	57.9	88.3	93.7	36
38	61.3	25.0	127.1	120.5	97.6	203.0	104.8	127.8	111.1	58.1	121.3	114.1	124.8	118.0	38
40	60.5	137.5	158.1	125.0	138.4	168.3	163.1	153.5	108.4	67.3	135.7	163.6	145.5	140.5	40
42	169.7	50.0	129.3	94.6	139.4	173.3	156.2	146.3	125.2	159.1	107.5	157.8	142.6	122.7	42
44	173.6	237.5	80.0	53.9	145.9	163.4	134.0	97.9	87.8	179.3	66.8	136.8	96.1	87.7	44
46	113.1	175.0	65.5	32.8	86.2	84.2	117.9	109.3	103.9	118.5	45.5	114.7	108.3	67.4	46
48	107.7	87.5	51.0	33.5	72.2	44.6	84.3	57.0	90.0	105.9	40.8	80.5	62.9	53.1	48
50	70.5	187.5	35.8	22.1	36.1	39.6	45.8	28.8	32.1	80.8	27.0	45.3	29.4	32.8	50
52	77.7	25.0	23.8	20.7	31.9	5.0	35.1	30.9	41.0	73.0	22.2	32.2	32.7	26.7	52
54	11.7	12.5	14.0	14.1	33.5	5.0	10.4	3.5	11.4	11.8	15.1	9.9	4.9	13.1	54
56	15.7	37.5	11.6	7.8	14.8	5.0	3.1	3.0	1.7	17.6	9.3	3.3	2.8	7.8	56
58	4.0	12.5	6.2	8.5	14.2		5.8	1.0		4.7	8.1	5.2	0.8	6.8	58
60	1.3		1.7	4.7	6.1		2.2	0.6	9.1	1.2	3.9	1.9	2.1	3.2	60
62		12.5	3.3	2.4	14.8		1.8			1.1	3.3	1.7		2.7	62
64			1.1	1.6	10.9		1.3		7.3		1.9	1.1	1.3	1.6	64
66			2.1	2.0			2.2				1.9	2.0		1.7	66
68				0.4	1.9						0.3			0.2	68
70				0.4	6.4		0.6				0.6	0.5		0.5	70
72				0.8			1.8				0.5	1.7		0.7	72
74															74
76					2.3						0.1			0.1	76
78				0.8	1.9				3.6		0.6		0.6	0.5	78
80															80
82					2.3						0.1			0.1	82
84															84
86					1.9						0.1			0.1	86
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	3	1	9	13	3	1	11	6	3	4	25	12	9	50	
SAMPLING WEIGHT(kg)	283	73	1076	1868	468	139	1400	512	308	355	3412	1539	820	6126	
No. F.MEASURED	308	80	1618	2717	501	202	1840	773	426	388	4836	2042	1199	8465	
MEAN LENGTH(cm)	44.8	47.2	41.3	39.6	44.9	42.5	43.7	41.8	42.6	45.0	40.4	43.6	41.9	41.3	
MEAN WEIGHT (g)	896	1023	726	651	976	739	833	723	799	908	692	824	736	731	
DEPTH RANGE (m)	650/1147	790/810	548/900	719/1200	782/1100	773/950	800/1482	463/1000	673/1101	650/1147	548/1200	773/1482	463/1101	463/1482	

TABLE XXII-A: GREENLAND HALIBUT, DIV. 3O, 2004:
length composition (0/000) of the 60mm trawl catches.

LENGTH GROUP	AUG = YEAR	LENGTH GROUP
12	18.9	12
14	132.1	14
16	94.3	16
18	18.9	18
20	94.3	20
22	264.2	22
24	283.0	24
26	75.5	26
28		28
30	18.9	30
TOTAL	1000	
No. SAMPLES	1	
SAMPLING WEIGHT(kg)	5	
No. F.MEASURED	53	
MEAN LENGTH(cm)	21.9	
MEAN WEIGHT (g)	98	
DEPTH RANGE (m)	181/280	

TABLE XXII-B: GREENLAND HALIBUT, DIV. 3O, 2004: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	MAR	APR	OCT	NOV	1st Q.	2nd Q.	4th Q.	YEAR	LENGTH GROUP
32				33.3			1.0	0.3	32
34		22.9	2.9			22.9	2.8	2.4	34
36	2.6	30.5	22.9		2.6	30.5	22.2	10.2	36
38	19.8	167.9	58.5	133.3	19.8	167.9	60.8	41.6	38
40	22.4	313.0	141.6	133.3	22.4	313.0	141.4	76.4	40
42	92.2	206.1	127.5	166.7	92.2	206.1	128.7	110.4	42
44	59.4	61.1	132.9	200.0	59.4	61.1	135.0	81.4	44
46	39.6	122.1	157.0	100.0	39.6	122.1	155.2	78.6	46
48	93.2	53.4	148.5	66.7	93.2	53.4	146.1	105.8	48
50	152.1	15.3	62.2	66.7	152.1	15.3	62.3	116.9	50
52	249.5		61.1	100.0	249.5		62.3	178.5	52
54	155.7		20.8		155.7		20.2	106.0	54
56	37.5	7.6	25.9		37.5	7.6	25.1	31.9	56
58			14.6				14.2	4.1	58
60	55.2				55.2			35.5	60
62	5.2				5.2			3.3	62
64	5.2				5.2			3.3	64
66	7.8				7.8			5.0	66
68			5.7				5.5	1.6	68
70			6.6				6.4	1.8	70
72	2.6		5.7		2.6		5.5	3.3	72
74			5.7				5.5	1.6	74
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	2	1	5	1	2	1	6	9	
SAMPLING WEIGHT(kg)	196	87	375	25	196	87	400	683	
No. F.MEASURED	160	131	408	30	160	131	438	729	
MEAN LENGTH(cm)	51.3	42.5	46.7	44.6	51.3	42.5	46.7	49.4	
MEAN WEIGHT (g)	1356	741	1058	888	1356	741	1052	1226	
DEPTH RANGE (m)	958/1041	700/782	356/1390	401/450	958/1041	700/782	356/1390	356/1390	

TABLE XXIII: ROUGHHEAD GRENADIER, DIV. 3L, 2004: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	JAN	FEB	APR	MAY	JUN	SEP	1st Q.	2nd Q.	3rd Q.	YEAR	LENGTH GROUP
6				0.6				0.4		0.3	6
7				5.6	1.9			3.5		3.1	7
8			19.3	17.8	3.6	17.6		14.7	17.6	13.5	8
9			53.9	43.2	30.8	81.9		42.4	81.9	40.0	9
10	12.5		136.5	109.5	72.5	62.3	5.0	106.2	62.3	95.5	10
11			207.9	146.3	138.9	53.9		157.4	53.9	139.5	11
12	87.5	37.5	231.9	172.4	200.3	123.5	57.5	191.6	123.5	177.0	12
13	375.0	250.0	131.9	164.2	174.4	113.2	300.0	159.9	113.2	170.9	13
14	350.0	187.5	95.0	98.5	152.5	122.5	252.5	110.7	122.5	124.0	14
15	125.0	112.5	60.5	57.7	86.5	61.3	117.5	65.2	61.3	69.8	15
16	25.0	275.0	15.5	34.2	42.9	95.6	175.1	32.4	95.6	47.6	16
17	25.0	62.5	19.3	23.3	22.8	69.6	47.5	22.3	69.6	26.3	17
18		75.0	11.5	28.1	16.8	16.7	45.0	21.9	16.7	23.8	18
19			5.2	18.4	11.0	25.0		13.8	25.0	13.0	19
20				11.3	14.0	17.6		9.6	17.6	9.0	20
21				9.9	6.7	25.0		7.0	25.0	7.0	21
22			2.6	11.9	3.5			7.9		6.9	22
23			2.6	10.8	5.9	26.0		7.9	26.0	7.8	23
24			6.3	13.2	4.3	9.3		9.6	9.3	8.7	24
25				4.1	1.4	26.0		2.6	26.0	3.2	25
26				2.2	4.8	16.7		2.4	16.7	2.7	26
27				4.2	3.7	27.0		3.2	27.0	3.8	27
28				2.8				1.5		1.3	28
29				3.7	0.8	9.3		2.3	9.3	2.3	29
30				4.5				2.5		2.1	30
31				0.2				0.1		0.1	31
32				1.6				0.9		0.8	32
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	1	2	16	8	2	2	26	2	30	
SAMPLING WEIGHT(kg)	32	39	125	1633	718	94	71	2477	94	2642	
No. F.MEASURED	80	80	289	3054	1365	114	160	4708	114	4982	
MEAN LENGTH(cm)	14.2	15.3	12.7	13.9	13.8	15.5	14.9	13.6	15.5	13.8	
MEAN WEIGHT (g)	481	603	387	547	498	765	554	502	765	516	
DEPTH RANGE (m)	850/905	779/808	1045/1177	817/1248	663/1223	987/1021	779/905	663/1248	987/1021	663/1248	

TABLE XXIV: ROUGHHEAD GRENADIER, DIV. 3M, 2004: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	MAR	APR	MAY	JUN	1st Q.	2nd Q.	YEAR	LENGTH GROUP
5			0.9				0.7	0.2	5
6				22.3			3.6	1.2	6
7		0.5	1.5	34.2	18.3	0.4	7.9	2.9	7
8		3.1	4.7	46.0		2.1	11.1	5.2	8
9	0.2	20.1	12.3	51.4	45.1	13.9	20.7	16.2	9
10	2.5	60.2	47.3	74.4	22.5	42.3	50.1	44.9	10
11	75.0	106.5	115.0	109.4	133.2	96.7	115.2	103.0	11
12	110.2	148.9	226.1	128.4	161.6	136.9	206.2	160.5	12
13	173.2	171.2	141.4	128.2	144.6	171.8	139.4	160.8	13
14	167.7	154.8	148.8	120.0	120.7	158.8	142.4	153.2	14
15	158.1	137.0	114.5	100.1	117.8	143.5	112.4	132.9	15
16	100.8	81.0	69.9	51.5	102.2	87.1	69.0	80.9	16
17	91.8	56.3	23.7	57.8	45.1	67.3	30.6	54.8	17
18	71.8	38.7	17.4	11.6	12.7	49.0	16.1	37.8	18
19	20.8	2.7	12.1	6.0	18.3	8.3	11.5	9.4	19
20	14.0	7.2	12.2	8.6	17.6	9.3	11.9	10.2	20
21	7.5	2.3	10.9	9.4	13.4	3.9	10.8	6.3	21
22	1.4	3.5	6.5	10.9	18.3	2.8	8.0	4.6	22
23	2.7	2.3	6.0	3.0	4.2	2.4	5.4	3.4	23
24	0.1	1.4	6.7	7.9		1.0	6.5	2.9	24
25		2.3	4.4	8.6	4.2	1.6	5.1	2.8	25
26			4.6	3.8			4.2	1.4	26
27	2.3		4.7	5.6		0.7	4.6	2.0	27
28			3.6	0.8			2.9	1.0	28
29			2.1				1.6	0.5	29
30			1.8				1.4	0.5	30
31			0.3				0.2	0.1	31
32			0.7				0.6	0.2	32
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	8	13	13	3	2	21	18	39	
SAMPLING WEIGHT(kg)	325	678	1010	211	93	1003	1314	2318	
No. F.MEASURED	624	1454	1807	324	171	2078	2302	4380	
MEAN LENGTH(cm)	15.1	14.1	14.3	13.5	14.2	14.4	14.2	14.4	
MEAN WEIGHT (g)	589	507	566	507	542	533	555	540	
DEPTH RANGE (m)	837/1029	901/1156	880/1140	947/1031	1012/1106	837/1156	880/1140	837/1156	

TABLE XXV: ROUGHHEAD GRENADIER, DIV. 3N, 2004: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	APR	MAY	JUN	AUG	SEP	OCT	NOV	1st Q.	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
6						4.7					3.6		1.2	6
7			4.6	3.9		6.6	17.4	12.5		3.7	5.1	15.5	5.5	7
8	7.0	9.9	9.0	7.6		25.9	23.9	26.7	7.0	9.0	20.1	25.0	14.5	8
9	49.3	19.8	41.8	5.7	20.6	34.8	38.8	65.1	49.3	34.4	31.6	49.0	35.4	9
10	98.6	39.6	131.9	21.1	89.3	101.2	83.8	137.1	98.6	104.9	98.5	104.5	102.6	10
11	169.0	198.0	177.7	173.8	192.4	137.2	104.2	142.4	169.0	180.9	149.6	119.0	163.2	11
12	359.2	277.2	224.9	257.2	285.2	216.4	124.4	133.0	359.2	237.2	231.8	127.7	224.2	12
13	176.1	89.1	165.5	194.4	195.9	166.1	132.4	137.5	176.1	154.8	172.7	134.4	158.7	13
14	91.5	79.2	94.0	165.5	89.3	119.7	119.0	126.7	91.5	98.3	112.9	122.0	105.8	14
15	35.2	49.5	45.1	73.4	79.0	67.8	97.6	53.8	35.2	48.6	70.3	80.6	59.4	15
16	14.1	29.7	28.1	12.8	10.3	27.3	72.4	28.7	14.1	26.9	23.5	55.4	28.9	16
17		49.5	19.4	5.7	6.9	15.3	44.6	19.6		23.3	13.4	34.9	21.1	17
18		49.5	14.2	11.9	6.9	15.3	29.8	32.2		20.2	13.4	30.8	18.9	18
19		19.8	10.1	12.6	6.9	14.2	32.7	18.3		12.0	12.6	27.1	13.8	19
20		19.8	10.8	11.7	3.4	11.5	15.7	22.5		12.5	9.7	18.3	12.1	20
21		19.8	9.9	6.3	3.4	7.5	21.3	19.6		11.3	6.6	20.6	10.7	21
22		19.8	4.4	6.3		6.5	12.8			7.3	5.1	7.8	6.5	22
23			5.8	8.0		6.1	12.3	15.0		5.0	4.8	13.4	5.8	23
24		29.7		6.2	6.9	5.3	5.0	4.6		5.8	5.7	4.8	5.6	24
25			0.7	5.2		2.5	7.0	1.7		1.0	1.9	4.9	1.8	25
26			1.1	4.6	3.4	3.7	2.5	2.9		1.3	3.7	2.6	2.2	26
27				2.7		2.8	2.1			0.3	2.2	1.3	1.0	27
28			1.1	2.6		1.4	0.4			1.1	1.1	0.3	1.0	28
29				0.9						0.1			0.05	29
30						0.3					0.2		0.1	30
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	1	7	3	1	11	5	3	1	11	12	8	32	
SAMPLING WEIGHT(kg)	46	55	643	352	128	958	520	246	46	1050	1086	766	2948	
No. F.MEASURED	142	101	1539	630	291	1984	878	467	142	2270	2275	1345	6032	
MEAN LENGTH(cm)	12.5	14.2	13.1	13.8	13.0	13.4	14.3	13.4	12.5	13.3	13.3	14.0	13.4	
MEAN WEIGHT (g)	351	557	428	503	411	473	577	492	351	458	459	544	467	
DEPTH RANGE (m)	924/950	802/820	808/1200	714/1100	894/913	700/1364	702/1307	673/1101	924/950	714/1200	700/1364	673/1307	673/1364	

TABLE XXVI: ROUGHHEAD GRENADIER, DIV. 3O, 2004:
length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	OCT = YEAR	LENGTH GROUP
4	7.3	4
5		5
6	7.3	6
7	31.4	7
8	18.7	8
9	16.8	9
10	84.0	10
11	137.8	11
12	183.0	12
13	158.0	13
14	128.1	14
15	75.4	15
16	15.4	16
17	13.2	17
18	13.7	18
19	15.0	19
20	18.3	20
21	16.4	21
22	16.5	22
23	14.6	23
24	7.3	24
25	3.6	25
26	5.5	26
27	7.3	27
28		28
29		29
30	5.5	30
TOTAL	1000	
No. SAMPLES	3	
SAMPLING WEIGHT(kg)	171	
No. F.MEASURED	317	
MEAN LENGTH(cm)	13.8	
MEAN WEIGHT (g)	553	
DEPTH RANGE (m)	954/1390	

TABLE XXVII: WITCH FLOUNDER, DIV. 3L, 2004: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	JAN	MAR	APR	MAY	JUN	SEP	1st Q.	2nd Q.	3rd Q.	YEAR	LENGTH GROUP
26		3.6					2.3			1.2	26
28		18.4	2.1		6.9	12.3	11.6	2.2	12.3	7.2	28
30	112.5	53.1	34.9	7.6	20.6	12.3	75.1	25.0	12.3	49.9	30
32	12.5	89.4	40.2	49.5	47.2	62.2	60.9	43.9	62.2	52.9	32
34	125.0	141.0	94.1	72.2	81.5	76.6	135.1	86.0	76.6	110.5	34
36	75.0	116.9	161.3	148.6	132.0	64.3	101.4	153.2	64.3	125.1	36
38	125.0	112.7	174.8	212.4	278.5	229.0	117.2	201.3	229.0	159.6	38
40	125.0	130.0	134.8	211.2	102.8	149.6	128.2	151.6	149.6	139.8	40
42	112.5	82.1	111.1	79.8	44.5	140.1	93.3	92.1	140.1	93.8	42
44	137.5	83.3	97.2	49.5	126.8	139.4	103.3	88.1	139.4	97.0	44
46	75.0	72.0	80.6	72.2	73.6	37.6	73.1	77.1	37.6	74.2	46
48	62.5	60.6	37.3	37.8	73.6	63.6	61.3	43.0	63.6	52.7	48
50	25.0	20.8	17.4	42.0	12.0	13.0	22.3	23.6	13.0	22.7	50
52		4.8	8.0	17.2			3.0	9.4		6.0	52
54		3.9					2.5			1.2	54
56	12.5	6.1	6.3				8.5	3.5		5.9	56
58		1.3					0.8			0.4	58
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	5	8	2	2	2	6	12	2	20	
SAMPLING WEIGHT(kg)	57	183	288	43	71	38	240	402	38	680	
No. F.MEASURED	80	354	577	94	155	79	434	826	79	1339	
MEAN LENGTH(cm)	40.7	39.8	40.5	40.8	40.5	40.8	40.1	40.6	40.8	40.4	
MEAN WEIGHT (g)	631	601	621	630	619	627	612	623	627	618	
DEPTH RANGE (m)	944/1010	853/1043	786/1177	1142/1216	800/1187	1008/1130	853/1043	786/1216	1008/1130	786/1216	

TABLE XXVIII: WITCH FLOUNDER, DIV. 3M, 2004: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	JAN	FEB	MAR	APR	SEP	OCT	1st Q.	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
26				0.5				0.5			0.03	26
28			1.7	4.1	12.2	5.2	1.0	4.1	12.2	5.2	1.3	28
30	16.8	43.8	59.1	68.1	13.4	28.7	50.8	68.1	13.4	28.7	51.5	30
32	26.5	16.4	16.0	52.4	72.9	55.2	16.8	52.4	72.9	55.2	19.6	32
34	58.6	67.2	60.6	121.7	98.7	93.8	62.9	121.7	98.7	93.8	67.1	34
36	161.0	58.3	93.2	87.7	162.2	157.7	84.2	87.7	162.2	157.7	85.5	36
38	208.2	116.0	153.1	94.3	183.4	188.8	142.5	94.3	183.4	188.8	140.1	38
40	130.4	153.4	160.3	161.0	148.6	124.7	155.9	161.0	148.6	124.7	155.9	40
42	183.2	213.1	134.3	136.7	103.6	128.9	166.7	136.7	103.6	128.9	164.2	42
44	76.5	111.1	126.1	95.0	79.9	95.7	117.5	95.0	79.9	95.7	115.7	44
46	77.6	107.6	77.7	72.4	85.7	74.3	88.9	72.4	85.7	74.3	87.7	46
48	40.3	54.1	59.5	69.6	28.0	24.9	56.3	69.6	28.0	24.9	56.7	48
50	8.4	45.7	36.4	23.9	8.5	7.0	38.2	23.9	8.5	7.0	36.9	50
52		7.1	9.0	1.4	3.1	8.8	7.8	1.4	3.1	8.8	7.4	52
54		5.4	8.6	0.3		3.8	6.9	0.3		3.8	6.4	54
56	2.8	0.9	4.4	10.8		2.4	3.0	10.8		2.4	3.5	56
58	9.7						0.6				0.5	58
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	2	7	23	8	6	13	32	8	6	13	59	
SAMPLING WEIGHT(kg)	93	331	832	200	80	195	1255	200	80	195	1730	
No. F.MEASURED	160	536	1648	399	182	409	2344	399	182	409	3334	
MEAN LENGTH(cm)	41.0	42.1	41.6	40.7	39.9	40.2	41.8	40.7	39.9	40.2	41.7	
MEAN WEIGHT (g)	635	682	663	630	597	607	668	630	597	607	665	
DEPTH RANGE (m)	400/926	861/1005	792/1152	420/1162	307/352	305/430	400/1152	420/1162	307/352	305/430	305/1162	

TABLE XXIX: WITCH FLOUNDER, DIV. 3N, 2004: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	APR	MAY	JUN	AUG	SEP	OCT	NOV	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
22		2.5						0.8			0.4	22
24		2.5						0.8			0.4	24
26	1.4	2.3				1.9		1.4		0.5	0.9	26
28	4.4		11.6		5.1		9.2	4.4	4.8	6.6	5.2	28
30	41.2	14.1	107.4	47.6	47.5	15.6	37.4	44.8	47.5	31.4	40.8	30
32	33.4	41.8	200.5	47.6	90.2	30.2	38.6	66.1	87.7	36.3	59.7	32
34	93.0	109.5	212.1	47.6	134.9	85.5	92.3	119.5	129.7	90.4	111.5	34
36	138.7	169.6	170.4	333.3	172.8	153.2	179.0	153.9	182.3	171.9	164.3	36
38	169.9	247.4	158.8	285.7	204.0	148.9	214.2	191.7	208.8	196.3	195.9	38
40	127.6	150.9	74.6	119.0	127.0	149.4	153.7	125.2	126.5	152.5	134.4	40
42	133.7	96.0	47.9	95.2	111.3	139.0	87.1	106.7	110.4	101.3	105.5	42
44	108.4	83.0	11.0	23.8	44.3	73.2	96.0	83.0	43.1	89.7	78.9	44
46	62.3	37.2	2.7		43.7	86.5	48.6	43.8	41.1	59.0	48.4	46
48	56.7	18.0			14.6	72.8	21.0	34.6	13.8	35.2	31.5	48
50	19.5	9.6			4.6	20.5	16.7	13.0	4.3	17.8	13.2	50
52	7.4	8.5				13.4	5.3	6.4		7.5	5.8	52
54	1.5	4.5				5.0	1.1	2.2		2.2	1.8	54
56		2.5	2.7			3.2		1.3		0.9	0.9	56
58	0.9					1.9		0.5		0.5	0.4	58
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	12	10	2	1	9	6	8	24	10	14	48	
SAMPLING WEIGHT(kg)	464	258	45	18	183	201	306	766	201	507	1473	
No. F.MEASURED	919	596	115	42	470	386	701	1630	512	1087	3229	
MEAN LENGTH(cm)	40.6	39.8	36.1	38.2	38.7	41.3	39.8	39.6	38.6	40.2	39.6	
MEAN WEIGHT (g)	590	540	385	465	492	623	544	538	490	566	539	
DEPTH RANGE (m)	260/1020	780/1251	795/1100	773/950	800/1482	485/1307	73/1101	260/1251	773/1482	73/1307	73/1482	

TABLE XXX-A: WITCH FLOUNDER, DIV. 3O, 2004: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	MAR	APR	JUN	AUG	OCT	NOV	1st Q.	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
26				3.5	1.9	0.4	3.4		2.1	1.9	2.9	2.1	26
28			6.3	3.5	19.7	12.1	7.8		4.6	19.7	8.5	7.0	28
30		87.5	40.3	49.7	86.9	22.8	31.3	86.8	45.9	86.9	29.8	47.4	30
32	69.8	25.0	50.2	92.5	144.6	47.7	74.7	25.4	75.3	144.6	70.1	71.8	32
34	46.5	125.0	71.0	135.3	153.2	114.2	97.6	124.4	109.2	153.2	100.5	110.8	34
36	116.3	75.0	116.6	207.7	166.3	166.9	173.9	75.3	170.7	166.3	172.7	158.3	36
38	139.5	112.5	165.8	198.3	132.0	199.4	227.5	112.7	185.1	132.0	222.6	188.1	38
40	232.6	125.0	105.1	93.5	90.7	96.5	124.0	125.9	98.2	90.7	119.3	111.0	40
42	93.0	125.0	112.3	112.8	93.1	118.9	89.6	124.7	112.6	93.1	94.7	104.5	42
44	69.8	112.5	95.6	52.9	46.5	54.6	45.5	112.2	70.3	46.5	47.1	63.4	44
46	186.0	87.5	78.1	31.0	33.5	79.4	58.1	88.3	50.1	33.5	61.7	59.3	46
48	23.3	75.0	105.7	6.2	15.9	49.3	43.4	74.6	46.6	15.9	44.4	46.9	48
50	23.3	25.0	32.9	9.7	9.8	19.4	13.4	25.0	19.1	9.8	14.5	17.0	50
52		12.5	10.2		1.0	7.8	3.7	12.4	4.1	1.0	4.4	5.1	52
54			3.9		3.0	8.7	5.3		1.6	3.0	5.8	3.4	54
56		12.5	5.8	3.5	1.0	1.8	0.7	12.4	4.4	1.0	0.9	3.6	56
58					1.0					1.0		0.1	58
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	1	5	2	15	8	14	2	7	15	22	46	
SAMPLING WEIGHT(kg)	21	61	267	126	463	306	850	82	393	463	1156	2094	
No. F.MEASURED	43	80	498	316	1142	676	1933	123	814	1142	2609	4688	
MEAN LENGTH(cm)	41.4	41.1	41.4	38.5	37.7	40.3	39.5	41.1	39.7	37.7	39.7	39.7	
MEAN WEIGHT (g)	613	625	636	487	465	577	540	624	548	465	546	551	
DEPTH RANGE (m)	423/450	628/660	246/840	122/220	130/405	94/1076	94/450	423/660	122/840	130/405	94/1076	94/1076	

TABLE XXX-B: WITCH FLOUNDER, DIV. 3O, 2004:
length composition (0/000) of the 280mm trawl catches.

LENGTH GROUP	OCT = YEAR	LENGTH GROUP
28	28.6	28
30	28.6	30
32	28.6	32
34	114.3	34
36	171.4	36
38	85.7	38
40	114.3	40
42	85.7	42
44	142.9	44
46	57.1	46
48	85.7	48
50		50
52	57.1	52
TOTAL	1000	
No. SAMPLES	1	
SAMPLING WEIGHT(kg)	18	
No. F.MEASURED	35	
MEAN LENGTH(cm)	41.1	
MEAN WEIGHT (g)	622	
DEPTH RANGE (m)	67/83	

TABLE XXXI: ATLANTIC HALIBUT, DIV. 3N, 2004:
length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	YEAR	LENGTH GROUP
78	166.0	78
80	180.5	80
82	58.8	82
84		84
86	64.6	86
88		88
90	118.6	90
92		92
94	87.4	94
96		96
98		98
100	87.4	100
102		102
104	31.2	104
106		106
108		108
110		110
112		112
114		114
116		116
118	64.6	118
120	31.2	120
122		122
124		124
126	78.6	126
128		128
130		130
132		132
134		134
136		136
138		138
140		140
142		142
144		144
146		146
148		148
150		150
152		152
154		154
156		156
158		158
160		160
162		162
164		164
166		166
168		168
170		170
172		172
174		174
176		176
178		178
180		180
182		182
184		184
186		186
188		188
190	31.2	190
TOTAL	1000	
No. SAMPLES	7	
SAMPLING WEIGHT(kg)	249	
No. F.MEASURED	17	
MEAN LENGTH(cm)	96.8	
MEAN WEIGHT (g)	17190	
DEPTH RANGE (m)	66/1100	

TABLE XXXII: ATLANTIC HALIBUT, DIV. 3O, 2004:
length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	YEAR	LENGTH GROUP
66	35.4	66
68		68
70		70
72	75.1	72
74		74
76	28.1	76
78	215.0	78
80		80
82		82
84		84
86	82.3	86
88	250.3	88
90	21.6	90
92	8.5	92
94		94
96		96
98	15.1	98
100	47.0	100
102	63.4	102
104		104
106		106
108		108
110		110
112	62.0	112
114		114
116	35.4	116
118		118
120		120
122	21.6	122
124		124
126		126
128		128
130		130
132		132
134		134
136		136
138		138
140		140
142		142
144		144
146		146
148	13.1	148
150		150
152	13.1	152
154		154
156	13.1	156
TOTAL	1000	
No. SAMPLES	8	
SAMPLING WEIGHT(kg)	442	
No. F.MEASURED	22	
MEAN LENGTH(cm)	91.8	
MEAN WEIGHT (g)	13266	
DEPTH RANGE (m)	145/1390	

TABLE XXXIII: WHITE HAKE, DIV. 3N, 2004: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	APR	OCT	NOV	2nd Q.	4th Q.	YEAR	LENGTH GROUP
32		13.5			7.8	5.3	32
33							33
34	11.0	27.0		11.0	15.6	14.1	34
35		40.5	23.9		33.5	22.8	35
36		81.1			46.8	31.9	36
37		54.1	71.6		61.4	41.8	37
38	11.0	40.5	71.6	11.0	53.6	40.0	38
39	11.0	13.5	95.4	11.0	48.1	36.3	39
40		94.6	119.3		105.0	71.5	40
41	33.0	40.5	95.4	33.0	63.7	53.9	41
42	22.0	13.5	47.7	22.0	28.0	26.0	42
43	76.9	94.6		76.9	54.6	61.8	43
44	44.0	13.5	99.3	44.0	49.8	47.9	44
45	33.0		23.9	33.0	10.1	17.4	45
46	120.9	27.0	23.9	120.9	25.7	56.1	46
47	109.9	27.0	7.8	109.9	18.9	48.0	47
48	98.9	13.5	3.9	98.9	9.5	38.0	48
49	153.8	94.6	11.7	153.8	59.6	89.7	49
50	65.9	27.0	51.6	65.9	37.4	46.5	50
51	33.0	27.0	23.9	33.0	25.7	28.0	51
52	11.0	81.1	27.8	11.0	58.6	43.4	52
53	22.0	40.5	79.4	22.0	56.9	45.8	53
54			27.8		11.7	8.0	54
55	33.0	13.5	31.7	33.0	21.2	24.9	55
56	11.0	13.5	19.6	11.0	16.1	14.4	56
57	11.0			11.0		3.5	57
58		27.0	3.9		17.3	11.8	58
59		27.0	7.8		18.9	12.9	59
60	22.0	13.5		22.0	7.8	12.3	60
61							61
62	11.0	13.5	3.9	11.0	9.5	9.9	62
63		13.5	3.9		9.5	6.4	63
64	22.0			22.0		7.0	64
65	11.0		7.8	11.0	3.3	5.8	65
66	11.0		3.9	11.0	1.7	4.6	66
67			3.9		1.7	1.1	67
68							68
69	11.0			11.0		3.5	69
70		13.5	3.9		9.5	6.4	70
71							71
72							72
73			3.9		1.7	1.1	73
TOTAL	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	1	2	1	3	4	
SAMPLING WEIGHT(kg)	113	81	99	113	180	293	
No. F.MEASURED	91	74	67	91	141	232	
MEAN LENGTH(cm)	49.1	45.9	45.3	49.1	45.7	46.8	
MEAN WEIGHT (g)	1398	1200	1133	1398	1172	1244	
DEPTH RANGE (m)	757/840	485/505	94/100	757/840	94/505	94/840	

TABLE XXXIV-A: WHITE HAKE, DIV. 3O, 2004: length composition (0/000) of the 60mm trawl catches.

LENGTH GROUP	AUG = YEAR	LENGTH GROUP
17	5.6	17
18		18
19	5.6	19
20	13.4	20
21		21
22	37.9	22
23	16.7	23
24	30.1	24
25	27.8	25
26	30.1	26
27	13.4	27
28		28
29	22.3	29
30	24.5	30
31	5.6	31
32	11.1	32
33		33
34	11.1	34
35	5.6	35
36	26.8	36
37	22.3	37
38	24.5	38
39	11.1	39
40	32.3	40
41	13.4	41
42	19.0	42
43	5.6	43
44	26.8	44
45	45.7	45
46	32.3	46
47	59.1	47
48	51.3	48
49	26.8	49
50	59.1	50
51	32.3	51
52	26.8	52
53	26.8	53
54	26.8	54
55	19.0	55
56	11.1	56
57	5.6	57
58	19.0	58
59	19.0	59
60	26.8	60
61	19.0	61
62	32.3	62
63		63
64		64
65		65
66		66
67		67
68		68
69	13.4	69
70		70
71		71
72	5.6	72
TOTAL	1000	
No. SAMPLES	2	
SAMPLING WEIGHT(kg)	112	
No. F.MEASURED	108	
MEAN LENGTH(cm)	43.7	
MEAN WEIGHT (g)	1165	
DEPTH RANGE (m)	153/280	

TABLE XXXIV-B: WHITE HAKE, DIV. 3O, 2004: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	APR	JUN	AUG	OCT	NOV	1st Q.	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
18						0.9				0.2	0.01	18
19												19
20												20
21						0.9				0.2	0.01	21
22				2.8		1.7			2.8	0.4	0.3	22
23						0.9				0.2	0.01	23
24				1.4		1.7			1.4	0.4	0.2	24
25				0.7		7.9			0.7	2.1	0.2	25
26				4.9		7.9			4.9	2.1	0.6	26
27				0.3	7.6	2.5			0.3	6.3	0.4	27
28				4.0	3.8	0.9			4.0	3.0	0.6	28
29				2.4	3.8	8.7			2.4	5.1	0.5	29
30				6.3	3.8	3.3			6.3	3.7	0.8	30
31				4.1	3.8	4.0			4.1	3.8	0.6	31
32				2.8	3.8	6.0			2.8	4.4	0.5	32
33		7.2		2.8		1.4		0.4	2.8	0.4	0.6	33
34		2.1	1.7	3.1	2.9	2.5		1.7	3.1	2.8	1.9	34
35		3.1	2.7	3.5	5.2	2.2		2.7	3.5	4.4	2.9	35
36		6.4	3.1	4.1	5.8	3.9		3.2	4.1	5.3	3.4	36
37		14.8	4.1	6.5	11.3	5.1		4.7	6.5	9.7	5.1	37
38		12.7	7.2	3.7	27.1	20.1		7.5	3.7	25.2	8.2	38
39	17.5	25.3	8.2	5.8	34.5	18.1	17.5	9.1	5.8	30.1	10.1	39
40	52.6	32.1	15.8	13.4	46.5	41.2	52.6	16.7	13.4	45.1	18.2	40
41	70.2	31.2	19.9	26.7	55.0	29.1	70.2	20.6	26.7	48.1	22.9	41
42	193.0	36.9	72.7	35.4	58.9	29.6	193.0	70.8	35.4	51.2	66.5	42
43	210.5	41.7	78.7	58.4	78.2	39.0	210.5	76.7	58.4	67.9	74.6	43
44	105.3	51.9	72.9	34.0	62.5	44.7	105.3	71.7	34.0	57.8	67.4	44
45	17.5	75.6	116.9	59.3	67.2	33.6	17.5	114.7	59.3	58.3	106.0	45
46	122.8	42.8	82.1	53.2	80.7	42.9	122.8	80.0	53.2	70.7	77.0	46
47	70.2	65.6	108.1	75.8	65.6	35.6	70.2	105.7	75.8	57.6	100.0	47
48	17.5	52.4	55.0	53.5	37.8	68.2	17.5	54.8	53.5	45.8	54.1	48
49	17.5	51.3	51.5	66.7	46.5	62.1	17.5	51.5	66.7	50.6	52.8	49
50		21.9	36.9	51.8	25.6	59.5		36.1	51.8	34.6	37.4	50
51		21.8	43.3	57.1	28.5	32.6		42.1	57.1	29.6	42.7	51
52	35.1	37.8	21.1	49.7	35.9	53.5	35.1	22.0	49.7	40.6	25.8	52
53	17.5	34.9	22.5	37.2	29.5	40.9	17.5	23.2	37.2	32.6	25.0	53
54	35.1	37.9	17.8	40.7	20.8	27.7	35.1	18.9	40.7	22.6	21.1	54
55		32.4	17.2	40.1	26.7	32.3		18.1	40.1	28.2	20.7	55
56		30.0	33.3	24.5	14.6	40.0		33.1	24.5	21.3	31.5	56
57	17.5	27.5	25.3	26.6	20.5	36.7	17.5	25.4	26.6	24.8	25.5	57
58		22.0	21.0	31.1	20.2	21.7		21.0	31.1	20.6	21.9	58
59		29.4	15.4	17.5	11.9	31.1		16.2	17.5	17.0	16.3	59
60		22.9	7.0	18.8	6.0	12.5		7.9	18.8	7.7	8.9	60
61		21.8	7.1	15.2	13.5	13.7		7.9	15.2	13.6	8.9	61
62		14.8	4.6	7.7	12.2	3.9		5.2	7.7	10.0	5.7	62
63		6.4	3.0	7.7	5.2	14.7		3.2	7.7	7.7	3.9	63
64		10.5	3.3	7.3	2.9	14.7		3.7	7.3	6.0	4.2	64
65		4.1	2.2	4.8	5.7	10.2		2.3	4.8	6.9	2.8	65
66		4.1	3.0	1.4	1.4	3.4		3.1	1.4	1.9	2.9	66
67		10.3	3.0	2.7	1.7	4.2		3.4	2.7	2.3	3.3	67
68		17.1	2.2	4.0	0.6	4.9		3.0	4.0	1.7	3.0	68
69		4.1	1.2	1.3	0.6	12.1		1.3	1.3	3.6	1.5	69
70		10.5	0.8	1.7				1.4	1.7		1.3	70
71		0.9	1.4					1.3			1.1	71
72		6.4	0.3					0.6			0.5	72
73												73
74		6.4	1.7		3.8			2.0		2.8	1.8	74
75			1.4	4.9		2.5		1.3	4.9	0.7	1.6	75
76		6.4		3.1				0.4	3.1		0.6	76
77			0.6	2.8				0.5	2.8		0.7	77
78			1.4	1.3		0.9		1.3	1.3	0.2	1.2	78
79												79
80		4.1	0.3	1.4				0.5	1.4		0.5	80
81												81
82												82
83												83
84												84
85			1.1					1.0			0.9	85
86												86
//												//
98												98
99				2.2					2.2		0.2	99
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	4	6	15	7	14	1	10	15	21	47	
SAMPLING WEIGHT(kg)	51	471	996	1514	722	849	51	1467	1514	1571	4602	
No. F.MEASURED	57	343	664	1098	594	621	57	1007	1098	1215	3377	
MEAN LENGTH(cm)	45.0	50.9	48.6	50.0	47.2	49.6	45.0	48.7	50.0	47.8	48.8	
MEAN WEIGHT (g)	1049	1628	1358	1531	1266	1501	1049	1373	1531	1328	1384	
DEPTH RANGE (m)	320/360	515/840	140/320	130/443	94/551	94/450	320/360	140/840	130/443	94/551	94/840	

TABLE XXXV: THORNY SKATE, DIV. 3L, 2004: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	MAR	APR	MAY	JUN	SEP	1st Q.	2nd Q.	3rd Q.	YEAR	LENGTH GROUP
18			4.3				2.2		1.3	18
19	7.4	6.1				7.4	1.9		3.9	19
20		10.4	7.0				6.8		4.1	20
21	24.8		3.6			24.8	1.8		10.3	21
22	17.0	34.1	9.8			17.0	15.7		15.7	22
23			4.7				2.4		1.4	23
24	17.0	20.0	18.8	7.3	64.4	17.0	17.2	64.4	18.5	24
25	17.0	45.1	15.2			17.0	21.9		19.4	25
26	7.8	13.9	15.0		61.1	7.8	12.0	61.1	12.0	26
27	56.5	60.0	34.7	22.5	32.2	56.5	40.5	32.2	46.2	27
28	7.8		14.9	9.9		7.8	9.4		8.5	28
29	58.3	58.8	48.1	17.0	90.0	58.3	45.9	90.0	51.9	29
30	46.2	52.3	47.0	33.2	28.9	46.2	46.2	28.9	45.7	30
31	7.4	73.7	29.8	7.3	32.2	7.4	39.6	32.2	27.4	31
32	58.3	22.8	26.2	76.1	28.9	58.3	34.0	28.9	42.9	32
33	41.3	48.5	46.8	26.2	61.1	41.3	43.7	61.1	43.3	33
34	23.1	39.7	35.5	22.5	32.2	23.1	34.5	32.2	30.2	34
35	33.9	28.8	47.2	50.0	61.1	33.9	41.9	61.1	39.5	35
36	57.0	43.1	61.9	75.1	61.1	57.0	58.4	61.1	57.9	36
37	32.2	22.9	43.9	18.6	118.9	32.2	32.8	118.9	35.2	37
38	113.1	59.0	120.3	193.9	122.2	113.1	114.1	122.2	114.0	38
39	49.6	44.2	27.5	25.9	32.2	49.6	32.4	32.2	38.8	39
40	113.1	153.9	119.2	188.0	86.7	113.1	142.2	86.7	129.7	40
41	115.3	61.4	59.0	92.5	28.9	115.3	65.7	28.9	83.0	41
42	32.2	47.3	58.6	54.2		32.2	54.3		44.4	42
43	32.2	18.8	32.6	18.6	57.8	32.2	25.8	57.8	29.1	43
44	31.7	16.7	31.0	49.0		31.7	29.7		29.5	44
45		12.5	21.4	8.6			16.4		9.8	45
46		6.1	16.0	3.7			10.7		6.4	46
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	3	6	16	7	2	3	29	2	34	
SAMPLING WEIGHT(kg)	233	356	986	432	84	233	1774	84	2091	
No. F.MEASURED	86	133	328	127	33	86	588	33	707	
MEAN LENGTH(cm)	35.7	34.8	36.3	38.0	34.8	35.7	36.1	34.8	35.9	
DEPTH RANGE (m)	837/952	786/1138	817/1248	666/1153	940/1047	837/952	666/1248	940/1047	666/1248	

TABLE XXXVI: THORNY SKATE, DIV. 3M, 2004: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	MAR	APR	MAY	JUN	SEP	OCT	1st Q.	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
7		7.0						6.9				3.3	7
8													8
9													9
10													10
11													11
12													12
13													13
14		2.4						2.4				1.1	14
15													15
16													16
17			5.2						4.1			0.6	17
18		4.0						3.9				1.9	18
19		3.6	12.9	18.1		5.0	11.7	3.6	13.0	5.0	11.7	6.7	19
20		15.3	6.4			1.8	7.1	15.1	5.0	1.8	7.1	9.5	20
21	76.9	21.7	14.8			1.6	4.7	22.4	11.7	1.6	4.7	13.6	21
22		20.2	18.6			10.3	11.7	19.9	14.6	10.3	11.7	15.8	22
23		13.5	6.5			10.5	11.3	13.3	5.1	10.5	11.3	11.2	23
24		47.6	27.1			28.5	45.2	46.9	21.3	28.5	45.2	39.1	24
25		17.3	14.0		83.3	19.6	30.2	17.1	15.6	19.6	30.2	19.6	25
26	153.8	52.1	23.2	55.4	83.3	39.6	21.8	53.4	31.6	39.6	21.8	41.9	26
27		38.1	39.0	92.7		37.6	37.5	37.6	45.4	37.6	37.5	38.8	27
28		50.3	21.7			22.6	31.1	49.6	17.0	22.6	31.1	36.1	28
29	76.9	61.5	32.9	37.3	83.3	47.1	52.4	61.7	36.4	47.1	52.4	53.3	29
30	230.8	70.9	51.5	55.4		50.2	52.8	73.0	49.3	50.2	52.8	61.4	30
31	153.8	43.8	38.5	18.1		28.7	63.6	45.2	33.1	28.7	63.6	43.3	31
32		44.0	25.6	18.1		32.7	56.3	43.4	23.0	32.7	56.3	40.4	32
33	153.8	44.8	39.9	74.6		42.1	58.1	46.2	43.2	42.1	58.1	47.0	33
34		37.9	45.5	73.6	83.3	35.7	28.8	37.4	52.0	35.7	28.8	37.8	34
35	76.9	31.7	45.7	18.1		53.5	59.0	32.3	38.8	53.5	59.0	42.1	35
36		36.6	32.7	55.4	83.3	74.9	88.1	36.1	39.1	74.9	88.1	53.2	36
37		48.8	45.7		83.3	43.7	44.3	48.1	40.5	43.7	44.3	45.4	37
38		66.0	58.7	55.4		82.3	86.6	65.1	54.9	82.3	86.6	70.7	38
39		25.7	32.5		83.3	43.8	49.2	25.3	30.2	43.8	49.2	33.8	39
40		106.3	126.9	55.4	83.3	118.5	69.9	104.9	113.1	118.5	69.9	102.8	40
41		30.3	57.9	149.2	83.3	66.3	61.2	29.9	73.8	66.3	61.2	49.2	41
42	76.9	30.8	62.8	18.1		51.6	17.5	31.4	52.2	51.6	17.5	36.2	42
43		6.4	31.2	37.3	166.7	15.9		6.3	39.7	15.9		12.2	43
44		17.3	43.1	37.3		23.1		17.0	39.8	23.1		18.8	44
45			12.5	55.4	83.3	2.1			23.2	2.1		4.0	45
46		4.3	27.0	74.6		9.3		4.3	33.1	9.3		8.9	46
47						1.7				1.7		0.3	47
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	21	9	2	1	17	13	22	12	17	13	64	
SAMPLING WEIGHT(kg)	23	1031	512	101	37	1171	668	1055	650	1171	668	3543	
No. F.MEASURED	13	472	181	34	12	420	284	485	227	420	284	1416	
MEAN LENGTH(cm)	31.0	32.8	35.6	36.6	37.0	35.3	33.7	32.8	35.8	35.3	33.7	33.9	
DEPTH RANGE (m)	953/980	804/1156	891/1162	947/1031	1012/1055	307/456	305/430	804/1156	891/1162	307/456	305/430	305/1162	

TABLE XXXVII-A : THORNY SKATE, DIV. 3N, 2004: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	APR	MAY	JUN	AUG	SEP	OCT	NOV	1st Q.	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
18			4.1							2.7			1.2	18
19		3.0	0.4							1.1			0.5	19
20	34.5		13.7						34.5	9.0			4.2	20
21		18.7	29.1							24.4			11.0	21
22	69.0	21.9	14.3						69.0	15.6			7.3	22
23			19.0	12.0				8.8		13.2		8.1	10.1	23
24	34.5	32.2	67.5	12.0		14.8		10.2	34.5	54.1	12.8	9.3	29.8	24
25		28.3	43.3	35.6			12.4	8.8		38.6		9.1	22.1	25
26	69.0	19.1	21.5	17.1		6.8	6.1	3.3	69.0	20.5	5.9	3.5	11.5	26
27	34.5	46.6	44.8	29.8		8.5	12.4	7.1	34.5	44.4	7.4	7.5	24.3	27
28		35.3	55.6	29.8		20.2		16.8		48.2	17.6	15.4	30.3	28
29	69.0	50.0	66.0	46.9		18.6	12.4	14.2	69.0	60.3	16.1	14.0	35.2	29
30		44.7	68.3	44.9		43.5	6.1	17.2		60.2	37.8	16.3	36.7	30
31	34.5	37.8	27.4	17.8	111.1	35.1	48.2	56.2	34.5	29.7	45.0	55.5	43.5	31
32		31.2	55.2	29.8		25.4	39.1	72.8		46.8	22.1	70.0	57.8	32
33	34.5	70.3	40.1	69.7		26.8	54.5	59.4	34.5	50.5	23.3	59.0	54.0	33
34		5.5	19.3	29.8	111.1	36.1	36.4	59.7		16.0	45.9	57.8	38.4	34
35	69.0	33.8	21.5	39.9		24.7	45.4	82.8	69.0	26.1	21.4	79.7	53.7	35
36	69.0	47.5	42.9	75.5	111.1	77.3	53.6	84.5	69.0	46.2	81.7	82.0	65.8	36
37		49.7	44.5	12.0	111.1	44.5	60.7	28.2		44.0	53.2	30.8	37.3	37
38	206.9	80.2	74.0	128.1		86.1	151.6	140.1	206.9	79.1	74.9	141.1	111.3	38
39		30.4	31.4	45.7	111.1	34.7	63.4	80.7		32.0	44.7	79.2	56.6	39
40	172.4	102.5	70.9	134.8	111.1	161.0	115.9	120.0	172.4	83.7	154.4	119.7	104.7	40
41	69.0	62.7	46.9	96.4		67.0	101.0	72.0	69.0	54.4	58.3	74.4	64.8	41
42	34.5	58.8	27.8	39.9		139.0	72.4	43.4	34.5	37.4	120.8	45.8	44.2	42
43		17.9	18.1	22.8	111.1	46.3	32.1	11.0		18.4	54.7	12.7	16.5	43
44		52.8	20.9	29.8	111.1	48.3	42.2	2.1		30.5	56.5	5.4	18.2	44
45		10.7	1.3			21.1	17.5	0.9		3.9	18.3	2.3	3.5	45
46		8.7	10.1		111.1	14.3	16.8			9.1	27.0	1.4	5.6	46
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	10	12	3	1	11	6	8	1	25	12	14	52	
SAMPLING WEIGHT(kg)	68	724	920	264	36	585	399	732	68	1908	621	1131	3728	
No. F.MEASURED	29	258	374	87	9	170	117	230	29	719	179	347	1274	
MEAN LENGTH(cm)	34.4	35.2	32.9	36.1	39.4	38.3	38.2	36.5	34.4	33.8	38.5	36.7	35.4	
DEPTH RANGE (m)	924/950	548/1020	755/1200	714/985	894/913	700/1364	100/1000	73/1101	924/950	548/1200	700/1364	73/1101	73/1364	

TABLE XXXVII-B: THORNY SKATE, DIV. 3N, 2004:
length composition (0/000) of the 280mm trawl catches.

LENGTH GROUP	OCT	NOV	4th Q. = YEAR	LENGTH GROUP
20		3.1	3.0	20
21		6.1	5.9	21
22		3.1	3.0	22
23		3.1	3.0	23
24				24
25		6.1	5.9	25
26		3.1	3.0	26
27		9.6	9.4	27
28		3.1	3.0	28
29		20.5	19.9	29
30	23.3	48.9	48.1	30
31	46.5	24.8	25.4	31
32	46.5	60.1	59.7	32
33	23.3	70.8	69.4	33
34	69.8	22.7	24.0	34
35	23.3	128.9	125.8	35
36	69.8	84.7	84.3	36
37	93.0	56.5	57.6	37
38	69.8	107.9	106.7	38
39	69.8	69.3	69.3	39
40	139.5	112.0	112.8	40
41	69.8	65.4	65.5	41
42	93.0	48.8	50.1	42
43	23.3	3.3	3.9	43
44	93.0	19.2	21.3	44
45	46.5	6.2	7.4	45
46		9.0	8.7	46
47		0.9	0.8	47
48				48
49				49
50				50
51		3.1	3.0	51
TOTAL	1000	1000	1000	
No. SAMPLES	1	8	9	
SAMPLING WEIGHT(kg)	148	1019	1168	
No. F.MEASURED	43	318	361	
MEAN LENGTH(cm)	38.9	36.8	36.9	
DEPTH RANGE (m)	64/70	53/102	53/102	

TABLE XXXVIII-A: THORNY SKATE, DIV. 3O, 2004:
length composition (0/000) of the 60mm trawl catches.

LENGTH GROUP	AUG = YEAR	LENGTH GROUP
27	14.5	27
28		28
29	7.8	29
30	29.0	30
31		31
32	14.5	32
33	7.8	33
34	36.8	34
35	22.3	35
36	81.5	36
37	30.1	37
38	81.5	38
39	52.5	39
40	281.3	40
41	96.0	41
42	104.9	42
43		43
44	73.7	44
45	43.5	45
46	22.3	46
TOTAL	1000	
No. SAMPLES	2	
SAMPLING WEIGHT(kg)	319	
No. F.MEASURED	86	
MEAN LENGTH(cm)	39.8	
DEPTH RANGE (m)	176/280	

TABLE XXXVIII-B: THORNY SKATE, DIV. 3O, 2004: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	APR	JUN	AUG	OCT	NOV	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
20	6.7					2.7			0.5	20
21	20.0		2.7		0.8	8.1	2.7	0.4	3.0	21
22			3.2				3.2		1.5	22
23	6.7		3.7			2.7	3.7		2.3	23
24	46.6		26.8	13.1	2.2	18.9	26.8	7.6	19.1	24
25	6.7		3.7		3.6	2.7	3.7	1.8	2.9	25
26	6.7		15.2	32.5	0.8	2.7	15.2	16.4	13.0	26
27	20.0		24.8	9.7	16.3	8.1	24.8	13.0	17.7	27
28	6.7		3.8		4.3	2.7	3.8	2.2	3.1	28
29	59.9		37.9	29.7	13.8	24.3	37.9	21.6	30.0	29
30	41.6	10.2	18.4	29.5	48.7	23.0	18.4	39.2	25.9	30
31	20.0	41.0	19.0	58.6	57.3	32.5	19.0	57.9	34.1	31
32	27.6	38.9	60.2	33.3	47.4	34.3	60.2	40.4	48.7	32
33	39.2	41.0	28.6	43.7	58.5	40.3	28.6	51.2	38.1	33
34	41.3	10.2	17.7	33.7	30.1	22.8	17.7	31.9	23.2	34
35	42.9	51.2	30.2	65.0	99.9	47.9	30.2	82.8	50.5	35
36	20.9	102.5	55.9	107.6	98.3	69.4	55.9	102.9	73.6	36
37	54.9	41.0	52.7	25.7	40.5	46.7	52.7	33.3	45.3	37
38	73.5	163.9	79.1	126.8	140.4	127.3	79.1	133.7	106.2	38
39	27.6	51.2	38.8	57.2	59.3	41.6	38.8	58.2	45.6	39
40	143.7	205.0	184.4	106.5	104.3	180.1	184.4	105.4	158.4	40
41	77.6	112.7	108.5	78.0	79.0	98.5	108.5	78.5	96.9	41
42	56.9	79.9	78.7	44.4	35.1	70.5	78.7	39.7	64.7	42
43	53.3	22.6	18.6	16.1	17.5	35.1	18.6	16.9	21.4	43
44	64.2		63.3	55.3	24.7	26.1	63.3	39.8	48.3	44
45	15.0		14.6	24.1	4.9	6.1	14.6	14.3	12.8	45
46	20.0	28.6	7.0	9.7	4.5	25.1	7.0	7.0	10.7	46
47			2.4				2.4		1.1	47
48					1.9			1.0	0.3	48
49					2.9			1.5	0.5	49
50										50
51					2.9			1.5	0.5	51
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	4	3	15	6	14	7	15	20	42	
SAMPLING WEIGHT(kg)	330	208	1519	500	1194	537	1519	1694	3750	
No. F.MEASURED	105	58	445	153	364	163	445	517	1125	
MEAN LENGTH(cm)	36.8	38.7	37.7	37.3	37.1	37.9	37.7	37.2	37.6	
DEPTH RANGE (m)	515/782	170/320	142/465	94/1006	94/450	170/782	142/465	94/1006	94/1006	

TABLE XXXVIII-C: THORNY SKATE, DIV. 3O, 2004: length composition (0/000) of the 280mm trawl catches.

LENGTH GROUP	FEB	OCT	1st Q.	4th Q.	YEAR	LENGTH GROUP
21	17.2		17.2		11.4	21
22	17.2		17.2		11.4	22
23						23
24	17.2		17.2		11.4	24
25						25
26	17.2		17.2		11.4	26
27	51.7	24.4	51.7	24.4	42.5	27
28						28
29	17.2		17.2		11.4	29
30	51.7	24.4	51.7	24.4	42.5	30
31						31
32	51.7	48.8	51.7	48.8	50.7	32
33	34.5	48.8	34.5	48.8	39.3	33
34	51.7	24.4	51.7	24.4	42.5	34
35	34.5	48.8	34.5	48.8	39.3	35
36	69.0	122.0	69.0	122.0	86.9	36
37	51.7	24.4	51.7	24.4	42.5	37
38	120.7	122.0	120.7	122.0	121.1	38
39	51.7	122.0	51.7	122.0	75.5	39
40	155.2	73.2	155.2	73.2	127.4	40
41	86.2	122.0	86.2	122.0	98.3	41
42	34.5	73.2	34.5	73.2	47.6	42
43						43
44	69.0	73.2	69.0	73.2	70.4	44
45		24.4		24.4	8.3	45
46		24.4		24.4	8.3	46
TOTAL	1000	1000	1000	1000	1000	
No. SAMPLES	1	1	1	1	2	
SAMPLING WEIGHT(kg)	168	145	168	145	313	
No. F.MEASURED	58	41	58	41	99	
MEAN LENGTH(cm)	36.5	38.7	36.5	38.7	37.3	
DEPTH RANGE (m)	110/247	67/83	110/247	67/83	67/247	

TABLE XXXIX: SPINYTAIL SKATE, DIV. 3L, 2004: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	MAR	APR	MAY	JUN	SEP	1st Q.	2nd Q.	3rd Q.	YEAR	LENGTH GROUP
19	38.5					38.5			6.5	19
20	38.5	43.5				38.5	9.5		12.9	20
21										21
22		87.0			83.3		19.0	83.3	25.8	22
23			14.9		83.3		9.5	83.3	19.4	23
24	115.4					115.4			19.4	24
25		43.5			41.7		9.5	41.7	12.9	25
26	38.5				41.7	38.5		41.7	12.9	26
27	115.4	43.5				115.4	9.5		25.8	27
28	38.5	43.5	14.9			38.5	19.0		19.4	28
29		43.5					9.5		6.5	29
30	38.5	43.5			83.3	38.5	9.5	83.3	25.8	30
31	38.5				41.7	38.5		41.7	12.9	31
32										32
33	76.9		14.9			76.9	9.5		19.4	33
34	76.9	87.0	44.8	66.7	125.0	76.9	57.1	125.0	71.0	34
35	38.5		14.9		41.7	38.5	9.5	41.7	19.4	35
36	38.5		29.9	133.3		38.5	38.1		32.3	36
37	38.5		59.7		83.3	38.5	38.1	83.3	45.2	37
38										38
39	115.4	87.0	14.9		83.3	115.4	28.6	83.3	51.6	39
40				66.7			9.5		6.5	40
41			14.9				9.5		6.5	41
42	38.5	43.5				38.5	9.5		12.9	42
43	38.5	43.5		66.7	41.7	38.5	19.0	41.7	25.8	43
44			14.9				9.5		6.5	44
45	38.5		29.9			38.5	19.0		19.4	45
46		43.5	14.9		41.7		19.0	41.7	19.4	46
47			59.7	66.7	41.7		47.6	41.7	38.7	47
48		130.4	29.9		41.7		47.6	41.7	38.7	48
49	38.5		44.8	133.3		38.5	47.6		38.7	49
50			14.9				9.5		6.5	50
51			59.7		41.7		38.1	41.7	32.3	51
52		43.5	29.9	66.7			38.1		25.8	52
53										53
54			14.9	66.7			19.0		12.9	54
55		43.5	14.9	66.7	41.7		28.6	41.7	25.8	55
56			29.9		41.7		19.0	41.7	19.4	56
57			74.6				47.6		32.3	57
58				66.7			9.5		6.5	58
59			14.9				9.5		6.5	59
60		87.0	44.8	66.7			57.1		38.7	60
61										61
62			14.9	66.7			19.0		12.9	62
63			14.9				9.5		6.5	63
64										64
65										65
66			59.7				38.1		25.8	66
67										67
68			14.9				9.5		6.5	68
69			14.9				9.5		6.5	69
70			29.9				19.0		12.9	70
71		43.5	44.8				38.1		25.8	71
72										72
73				66.7			9.5		6.5	73
74			14.9				9.5		6.5	74
75			29.9				19.0		12.9	75
76			29.9				19.0		12.9	76
77			14.9				9.5		6.5	77
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	3	3	14	3	2	3	20	2	25	
SAMPLING WEIGHT(kg)	45	76	396	70	52	45	542	52	639	
No. F.MEASURED	26	23	67	15	24	26	105	24	155	
MEAN LENGTH(cm)	33.0	40.6	53.7	50.4	36.6	33.0	50.4	36.6	45.3	
DEPTH RANGE (m)	837/952	894/1038	817/1248	777/930	987/1021	837/952	777/1248	987/1021	777/1248	

TABLE XL: SPINYTAIL SKATE, DIV. 3M, 2004: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	MAR	APR	MAY	SEP	OCT	1st Q.	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
11				58.8				12.8			2.7	11
12												12
13												13
14				58.8				12.8			2.7	14
15				58.8				12.8			2.7	15
16	58.8						5.9				2.7	16
17		6.5					5.9				2.7	17
18				58.8	22.7			12.8	22.7		5.5	18
19	58.8	6.5			22.7		11.8		22.7		8.2	19
20	58.8	19.6		58.8	45.5		23.5	12.8	45.5		19.1	20
21	117.6	32.7			68.2	13.5	41.2		68.2	13.5	30.1	21
22	58.8	26.1	16.4		45.5	27.0	29.4	12.8	45.5	27.0	27.3	22
23	176.5	19.6	32.8	58.8	68.2	54.1	35.3	38.5	68.2	54.1	43.7	23
24	58.8	26.1	16.4		22.7		29.4	12.8	22.7		19.1	24
25		6.5	82.0			27.0	5.9	64.1		27.0	21.9	25
26	58.8	52.3			22.7	40.5	52.9		22.7	40.5	35.5	26
27		32.7	16.4			27.0	29.4	12.8		27.0	21.9	27
28		32.7	65.6		45.5	81.1	29.4	51.3	45.5	81.1	46.4	28
29		19.6	16.4		45.5	40.5	17.6	12.8	45.5	40.5	24.6	29
30		39.2		58.8	45.5	13.5	35.3	12.8	45.5	13.5	27.3	30
31		32.7	49.2			54.1	29.4	38.5		54.1	32.8	31
32		6.5	16.4		45.5	27.0	5.9	12.8	45.5	27.0	16.4	32
33		58.8	49.2		45.5	27.0	52.9	38.5	45.5	27.0	43.7	33
34		52.3	65.6	58.8	68.2	40.5	47.1	64.1	68.2	40.5	51.9	34
35		6.5			22.7	27.0	5.9		22.7	27.0	10.9	35
36	58.8	32.7			45.5	40.5	35.3		45.5	40.5	30.1	36
37		39.2	65.6	58.8	68.2	54.1	35.3	64.1	68.2	54.1	49.2	37
38		13.1	49.2		45.5	13.5	11.8	38.5	45.5	13.5	21.9	38
39		39.2	32.8	58.8	22.7	54.1	35.3	38.5	22.7	54.1	38.3	39
40		32.7				13.5	29.4			13.5	16.4	40
41		32.7	32.8			27.0	29.4	25.6		27.0	24.6	41
42		52.3	32.8	58.8	22.7	40.5	47.1	38.5	22.7	40.5	41.0	42
43		26.1	16.4	58.8	22.7	40.5	23.5	25.6	22.7	40.5	27.3	43
44		26.1	32.8		45.5	27.0	23.5	25.6	45.5	27.0	27.3	44
45	58.8	39.2	16.4			40.5	41.2	12.8		40.5	30.1	45
46		26.1	32.8	58.8			23.5	38.5			19.1	46
47		13.1					11.8				5.5	47
48	58.8	19.6				40.5	23.5			40.5	19.1	48
49	58.8	19.6				27.0	23.5			27.0	16.4	49
50		26.1			22.7	27.0	23.5		22.7	27.0	19.1	50
51	58.8	19.6	16.4		22.7		23.5	12.8	22.7		16.4	51
52												52
53		13.1	16.4	58.8	22.7	13.5	11.8	25.6	22.7	13.5	16.4	53
54			32.8		22.7	13.5		25.6	22.7	13.5	10.9	54
55		13.1	49.2				11.8	38.5			13.7	55
56	58.8			58.8		13.5	5.9	12.8		13.5	8.2	56
57			16.4					12.8			2.7	57
58		6.5					5.9				2.7	58
59			32.8			13.5		25.6		13.5	8.2	59
60		6.5					5.9				2.7	60
61			16.4					12.8			2.7	61
62												62
63		6.5	32.8				5.9	25.6			8.2	63
64												64
65												65
66			16.4					12.8			2.7	66
67												67
68												68
69				58.8				12.8			2.7	69
70												70
71		6.5					5.9				2.7	71
72		6.5	16.4				5.9	12.8			5.5	72
73			16.4					12.8			2.7	73
74				58.8				12.8			2.7	74
75												75
76												76
77												77
78												78
79												79
80												80
81												81
82												82
83												83
84		6.5					5.9				2.7	84
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	20	9	2	6	11	21	11	6	11	49	
SAMPLING WEIGHT(kg)	25	523	204	55	79	154	548	259	79	154	1039	
No. F.MEASURED	17	153	61	17	44	74	170	78	44	74	366	
MEAN LENGTH(cm)	31.3	37.3	41.0	37.2	32.8	36.5	36.7	40.2	32.8	36.5	36.9	
DEPTH RANGE (m)	953/980	804/1156	891/1162	947/1031	307/352	305/430	804/1156	891/1162	307/352	305/430	305/1162	

TABLE XLI: SPINYTAIL SKATE, DIV. 3N, 2004: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	APR	MAY	JUN	AUG	SEP	OCT	NOV	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
21	21.3							10.8			4.5	21
22							58.8			17.9	4.5	22
23					15.2				13.3		4.5	23
24					15.2	51.3			13.3	35.7	13.4	24
25		28.6						10.8			4.5	25
26					15.2	25.6			13.3	17.9	8.9	26
27	21.3					25.6		10.8		17.9	8.9	27
28	21.3				30.3	51.3	58.8	10.8	26.7	53.6	26.8	28
29		28.6		111.1	45.5			10.8	53.3		22.3	29
30				111.1	15.2		58.8		26.7	17.9	13.4	30
31						25.6				17.9	4.5	31
32		28.6			30.3	25.6		10.8	26.7	17.9	17.9	32
33	63.8				45.5	51.3	58.8	32.3	40.0	53.6	40.2	33
34	42.6	57.1		111.1	15.2	25.6	58.8	43.0	26.7	35.7	35.7	34
35						25.6				17.9	4.5	35
36					30.3				26.7		8.9	36
37	42.6	85.7	90.9	111.1	45.5	102.6	58.8	64.5	53.3	89.3	67.0	37
38					15.2	25.6			13.3	17.9	8.9	38
39	21.3		90.9		15.2	25.6	117.6	21.5	13.3	53.6	26.8	39
40						25.6				17.9	4.5	40
41							58.8			17.9	4.5	41
42	42.6	57.1	90.9		60.6	51.3		53.8	53.3	35.7	49.1	42
43	21.3	28.6			15.2		58.8	21.5	13.3	17.9	17.9	43
44	63.8	57.1	90.9		75.8		58.8	64.5	66.7	17.9	53.6	44
45	21.3				30.3	25.6		10.8	26.7	17.9	17.9	45
46	42.6	57.1		111.1	45.5	51.3		43.0	53.3	35.7	44.6	46
47												47
48	21.3	28.6			15.2	51.3		21.5	13.3	35.7	22.3	48
49	21.3	28.6	90.9		15.2	25.6	58.8	32.3	13.3	35.7	26.8	49
50	63.8				15.2	25.6		32.3	13.3	17.9	22.3	50
51		57.1	90.9		30.3			32.3	26.7		22.3	51
52	42.6	28.6			15.2	25.6	58.8	32.3	13.3	35.7	26.8	52
53	21.3							10.8			4.5	53
54	63.8		181.8	111.1	45.5	76.9		53.8	53.3	53.6	53.6	54
55	42.6	28.6		111.1	30.3	25.6	58.8	32.3	40.0	35.7	35.7	55
56	21.3				15.2	25.6		10.8	13.3	17.9	13.4	56
57		28.6	90.9				58.8	21.5		17.9	13.4	57
58					15.2				13.3		4.5	58
59					15.2	25.6			13.3	17.9	8.9	59
60	21.3	28.6			30.3	51.3		21.5	26.7	35.7	26.8	60
61	21.3							10.8			4.5	61
62	21.3	28.6		111.1	15.2		58.8	21.5	26.7	17.9	22.3	62
63	42.6	28.6			30.3			32.3	26.7		22.3	63
64	21.3	28.6						21.5			8.9	64
65												65
66		28.6						10.8			4.5	66
67												67
68			90.9		15.2			10.8	13.3		8.9	68
69	21.3	28.6					58.8	21.5		17.9	13.4	69
70	42.6	28.6			45.5			32.3	40.0		26.8	70
71				111.1					13.3		4.5	71
72	21.3	57.1	90.9		15.2	25.6		43.0	13.3	17.9	26.8	72
73	21.3							10.8			4.5	73
74	21.3				15.2			10.8	13.3		8.9	74
75		28.6				25.6		10.8		17.9	8.9	75
76	21.3	85.7			45.5			43.0	40.0		31.3	76
77					15.2				13.3		4.5	77
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	7	7	2	1	11	5	3	16	12	8	36	
SAMPLING WEIGHT(kg)	268	218	53	39	318	137	59	539	358	196	1093	
No. F.MEASURED	47	35	11	9	66	39	17	93	75	56	224	
MEAN LENGTH(cm)	50.7	53.0	52.0	46.9	48.2	43.8	43.7	51.7	48.0	43.7	48.5	
DEPTH RANGE (m)	548/1020	808/1200	714/930	894/913	700/1364	702/1000	673/1101	548/1200	700/1364	673/1101	548/1364	

TABLE XLII: SPINYTAIL SKATE, DIV. 3O, 2004: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	APR	OCT	NOV	2nd Q.	4th Q.	YEAR	LENGTH GROUP
13		33.3			26.3	16.7	13
14							14
15							15
16							16
17							17
18		33.3			26.3	16.7	18
19		66.7			52.6	33.3	19
20							20
21		33.3	125.0		52.6	33.3	21
22		33.3	125.0		52.6	33.3	22
23		100.0			78.9	50.0	23
24		33.3			26.3	16.7	24
25							25
26		33.3			26.3	16.7	26
27		66.7			52.6	33.3	27
28	45.5	66.7		45.5	52.6	50.0	28
29		100.0			78.9	50.0	29
30							30
31		33.3	125.0		52.6	33.3	31
32							32
33		66.7			52.6	33.3	33
34		66.7			52.6	33.3	34
35							35
36		66.7			52.6	33.3	36
37	45.5	66.7		45.5	52.6	50.0	37
38							38
39		33.3	125.0		52.6	33.3	39
40							40
41			125.0		26.3	16.7	41
42	45.5			45.5		16.7	42
43	45.5	33.3		45.5	26.3	33.3	43
44		33.3			26.3	16.7	44
45	45.5			45.5		16.7	45
46			125.0		26.3	16.7	46
47							47
48							48
49							49
50							50
51							51
52	90.9			90.9		33.3	52
53							53
54	45.5		125.0	45.5	26.3	33.3	54
55							55
56	45.5		125.0	45.5	26.3	33.3	56
57							57
58							58
59							59
60							60
61							61
62	45.5			45.5		16.7	62
63	45.5			45.5		16.7	63
64							64
65							65
66	90.9			90.9		33.3	66
67							67
68							68
69							69
70	181.8			181.8		66.7	70
71							71
72	45.5			45.5		16.7	72
73	45.5			45.5		16.7	73
74	45.5			45.5		16.7	74
75							75
76	90.9			90.9		33.3	76
TOTAL	1000	1000	1000	1000	1000	1000	
No. SAMPLES	4	3	1	4	4	8	
SAMPLING WEIGHT(kg)	185	38	22	185	60	245	
No. F.MEASURED	22	30	8	22	38	60	
MEAN LENGTH(cm)	60.4	29.3	39.3	60.4	31.4	42.0	
DEPTH RANGE (m)	515/782	954/1390	430/580	515/782	430/1390	430/1390	

TABLE XLIII-A: MONKFISH, DIV. 3N, 2004: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	APR	OCT	NOV	2nd Q.	4th Q.	YEAR	LENGTH GROUP
14		40.2			13.3	10.6	14
15							15
16							16
17							17
18							18
19		40.2			13.3	10.6	19
20							20
21							21
22							22
23							23
24							24
25							25
26							26
27		40.2			13.3	10.6	27
28							28
29		39.7			13.1	10.4	29
30							30
31							31
32		39.7			13.1	10.4	32
33							33
34	31.0			31.0		6.4	34
35							35
36							36
37							37
38							38
39							39
40	50.4			50.4		10.4	40
41	28.3			28.3		5.9	41
42	50.4			50.4		10.4	42
43	28.3			28.3		5.9	43
44	31.0	39.7	42.1	31.0	41.3	39.2	44
45		40.2	124.2		96.4	76.4	45
46							46
47		119.5	42.1		67.8	53.7	47
48	59.3			59.3		12.3	48
49	78.7	120.1	166.4	78.7	151.0	136.0	49
50			21.0		14.1	11.2	50
51	56.7		124.2	56.7	83.0	77.6	51
52	31.0	40.2		31.0	13.3	17.0	52
53	78.7	119.5		78.7	39.6	47.7	53
54		80.5			26.7	21.1	54
55	78.7			78.7		16.3	55
56	28.3	159.8	166.3	28.3	164.1	136.0	56
57	31.0			31.0		6.4	57
58							58
59	109.7		63.2	109.7	42.2	56.2	59
60		40.2			13.3	10.6	60
61							61
62	31.0	40.2	21.0	31.0	27.4	28.2	62
63							63
64	78.7		124.2	78.7	83.0	82.1	64
65			21.0		14.1	11.2	65
66	59.3		21.0	59.3	14.1	23.4	66
67			42.1		28.2	22.3	67
68	31.0			31.0		6.4	68
69							69
70							70
71							71
72	28.3			28.3		5.9	72
73							73
74							74
75							75
76							76
77							77
78							78
79							79
80			21.0		14.1	11.2	80
TOTAL	1000	1000	1000	1000	1000	1000	
No. SAMPLES	3	2	5	3	7	10	
SAMPLING WEIGHT(kg)	125	74	112	125	186	312	
No. F.MEASURED	29	25	23	29	48	77	
MEAN LENGTH(cm)	54.0	47.0	55.0	54.0	52.4	52.7	
MEAN WEIGHT (g)	3928	2879	4081	3928	3682	3733	
DEPTH RANGE (m)	548/1020	178/505	73/160	548/1020	73/505	73/1020	

TABLE XLIII-B: MONKFISH, DIV. 3N, 2004:
length composition (0/000) of the 280mm trawl catches.

LENGTH GROUP	NOV = YEAR	LENGTH GROUP
30	31.1	30
31		31
32		32
33		33
34		34
35		35
36		36
37		37
38		38
39		39
40		40
41		41
42	31.1	42
43		43
44		44
45		45
46		46
47	120.2	47
48		48
49	31.1	49
50	31.1	50
51		51
52	79.8	52
53	120.2	53
54	31.1	54
55	79.8	55
56		56
57		57
58	151.3	58
59		59
60		60
61		61
62		62
63		63
64		64
65	62.2	65
66	151.3	66
67		67
68		68
69		69
70		70
71		71
72		72
73		73
74		74
75		75
76		76
77		77
78		78
79	79.8	79
TOTAL	1000	
No. SAMPLES	4	
SAMPLING WEIGHT(kg)	83	
No. F.MEASURED	16	
MEAN LENGTH(cm)	57.2	
MEAN WEIGHT (g)	4657	
DEPTH RANGE (m)	53/65	

TABLE XLIV-A: MONKFISH, DIV. 3O, 2004:
length composition (0/000) of the 60mm trawl catches.

LENGTH GROUP	AUG = YEAR	LENGTH GROUP
43	9.1	43
44	9.1	44
45		45
46	9.1	46
47		47
48	73.6	48
49	82.6	49
50	73.6	50
51	18.2	51
52	156.2	52
53	82.6	53
54	73.6	54
55	18.2	55
56		56
57		57
58	18.2	58
59	73.6	59
60		60
61		61
62	18.2	62
63	73.6	63
64	82.6	64
65		65
66	91.7	66
67		67
68	9.1	68
69		69
70		70
71	9.1	71
72		72
73		73
74		74
75		75
76	9.1	76
77		77
78		78
79		79
80	9.1	80
TOTAL	1000	
No. SAMPLES	2	
SAMPLING WEIGHT(kg)	166	
No. F.MEASURED	32	
MEAN LENGTH(cm)	56.5	
MEAN WEIGHT (g)	4348	
DEPTH RANGE (m)	176/280	

TABLE XLIV-B: MONKFISH, DIV. 3O, 2004: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	APR	JUN	AUG	OCT	NOV	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
12			8.5				8.5		3.5	12
13			8.5				8.5		3.5	13
14			6.0				6.0		2.5	14
15					5.9			2.0	0.3	15
16			8.5				8.5		3.5	16
17			14.5		5.1		14.5	1.7	6.2	17
18				15.1				10.0	1.5	18
19										19
20										20
21										21
22										22
23										23
24										24
25										25
26			6.0				6.0		2.5	26
27										27
28			8.5				8.5		3.5	28
29				15.1	10.4			13.5	2.0	29
30					9.9			3.4	0.5	30
31			8.5		5.1		8.5	1.7	3.7	31
32			2.8	12.6	26.5		2.8	17.3	3.7	32
33			16.3	50.9	5.1		16.3	35.3	11.9	33
34					18.9			6.4	1.0	34
35			14.4		9.6		14.4	3.3	6.4	35
36	37.2		11.2			1.7	11.2		5.4	36
37				3.9	10.4			6.1	0.9	37
38			6.8				6.8		2.8	38
39			4.4		5.1		4.4	1.7	2.0	39
40			13.5		20.2		13.5	6.9	6.5	40
41	30.2					1.4			0.6	41
42	23.1		3.9	6.4	18.7	1.1	3.9	10.5	3.6	42
43			12.9				12.9		5.3	43
44		63.7	18.3	48.4	24.3	60.8	18.3	40.2	40.4	44
45	37.2	18.4	21.2	10.3	27.4	19.3	21.2	16.1	19.6	45
46		18.4	15.9	58.8	67.1	17.5	15.9	61.6	23.4	46
47			60.1	66.5	30.6		60.1	54.3	32.6	47
48	37.2	18.4	62.5	115.8	46.4	19.3	62.5	92.2	47.8	48
49	67.5	82.1	45.8	62.6	60.7	81.4	45.8	62.0	64.0	49
50		44.7	60.6	16.5	53.6	42.6	60.6	29.2	48.0	50
51		126.8	17.1	103.0	16.1	120.9	17.1	73.5	71.5	51
52	37.2	55.2	28.2	10.2	26.4	54.3	28.2	15.7	37.9	52
53		82.1	76.5	33.3	101.5	78.3	76.5	56.5	74.3	53
54		107.8	19.1	21.3	16.5	102.7	19.1	19.7	56.2	54
55	23.1	18.4	16.0	38.8	21.4	18.6	16.0	32.9	19.7	55
56	127.6	18.4	106.1	54.8	95.3	23.5	106.1	68.6	63.9	56
57	60.2		11.1	26.1	16.1	2.8	11.1	22.7	9.2	57
58	60.2	37.5	29.6	6.3	21.4	38.5	29.6	11.4	30.8	58
59	23.1		19.9	3.9	9.9	1.1	19.9	6.0	9.5	59
60		26.3	24.8	6.4	18.7	25.1	24.8	10.5	22.8	60
61	67.5	18.4	7.9	55.5	40.5	20.7	7.9	50.4	19.9	61
62		18.4	25.8	15.1	36.8	17.5	25.8	22.5	21.6	62
63	37.2	82.1	10.3		15.0	80.0	10.3	5.1	40.4	63
64	60.2	18.4	46.1	26.1	22.1	20.4	46.1	24.7	31.5	64
65	97.4	63.1	12.8		6.6	64.7	12.8	2.3	34.2	65
66	23.1		33.1	68.7	21.4	1.1	33.1	52.6	21.8	66
67	60.2	26.3	32.7		9.6	27.9	32.7	3.3	26.2	67
68		18.4	1.3		5.1	17.5	1.3	1.7	8.5	68
69	30.2	18.4			6.6	18.9		2.3	8.7	69
70	37.2		10.3	15.1	25.9	1.7	10.3	18.8	7.8	70
71				26.1				17.2	2.6	71
72										72
73	23.1		8.5	6.4	5.9	1.1	8.5	6.2	4.9	73
74			1.2				1.2		0.5	74
75										75
76		18.4				17.5			7.8	76
77			6.0				6.0		2.4	77
78										78
79			7.6				7.6		3.1	79
80										80
81			2.8				2.8		1.1	81
82										82
83										83
84										84
85										85
86										86
87			6.0				6.0		2.4	87
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	4	3	15	7	14	7	15	21	43	
SAMPLING WEIGHT(kg)	135	216	826	270	438	351	826	708	1884	
No. F.MEASURED	26	43	193	71	116	69	193	187	449	
MEAN LENGTH(cm)	58.0	55.8	52.1	51.9	51.8	55.9	52.1	51.8	53.8	
MEAN WEIGHT (g)	4752	4202	3790	3583	3568	4228	3790	3578	3953	
DEPTH RANGE (m)	450/840	170/320	142/465	94/551	94/450	170/840	142/465	94/551	94/840	

TABLE XLIV-C: MONKFISH, DIV. 3O, 2004:
length composition (0/000) of the 280mm trawl catches.

LENGTH GROUP	OCT = YEAR	LENGTH GROUP
43	52.6	43
44		44
45		45
46	52.6	46
47		47
48		48
49	52.6	49
50	52.6	50
51		51
52	52.6	52
53	105.3	53
54	52.6	54
55		55
56	52.6	56
57		57
58	52.6	58
59		59
60		60
61		61
62		62
63	52.6	63
64	105.3	64
65	105.3	65
66	105.3	66
67	52.6	67
68		68
69		69
70		70
71		71
72		72
73	52.6	73
TOTAL	1000	

No. SAMPLES	1
SAMPLING WEIGHT(kg	97
No. F.MEASURED	19
MEAN LENGTH(cm)	58.8
MEAN WEIGHT (g)	4875
DEPTH RANGE (m)	67/83

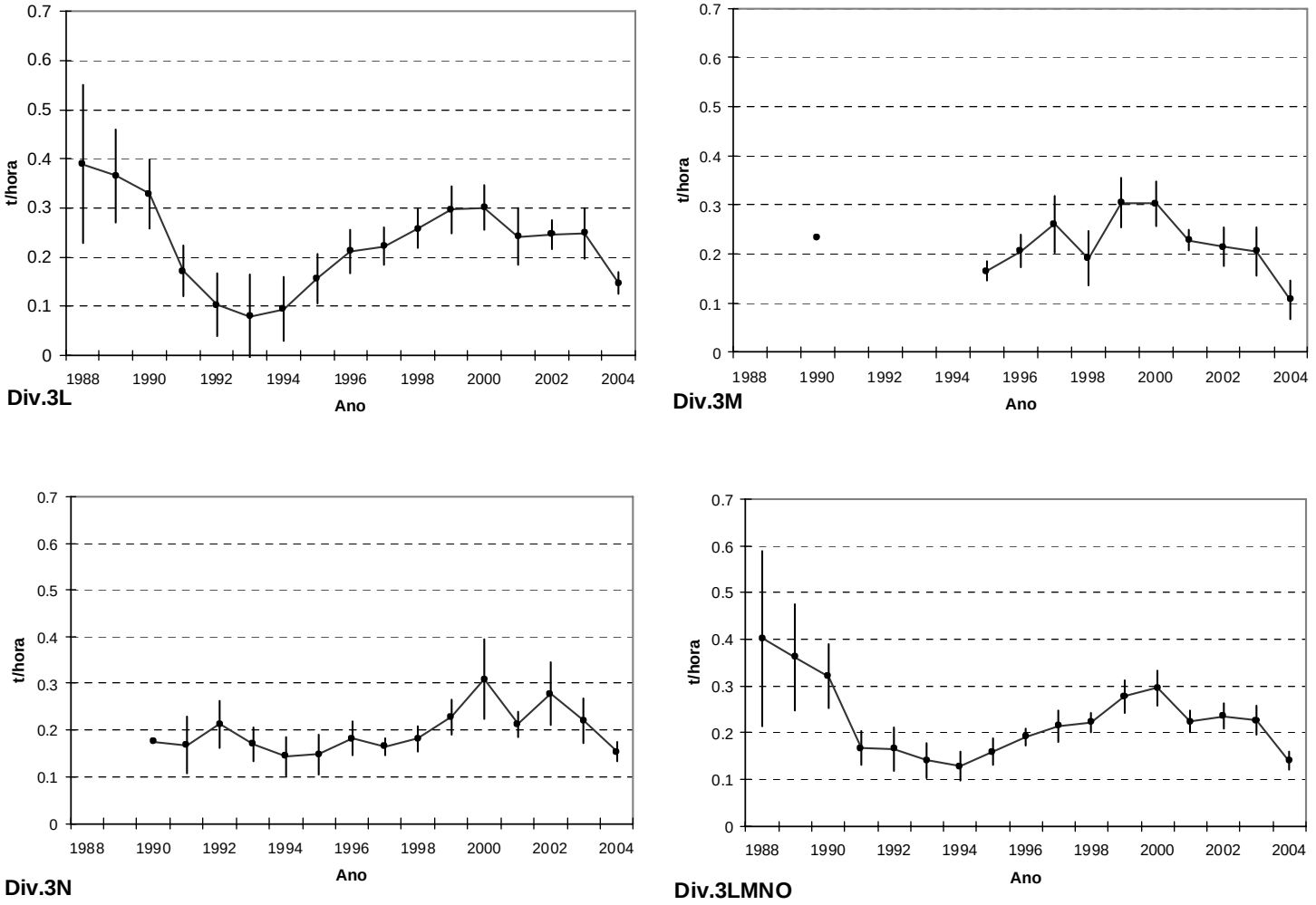

Fig. 1. Greenland halibut trawl catch rates by Division, 1988-2004.

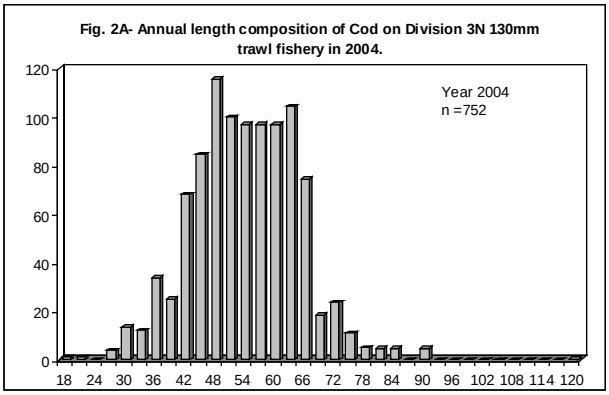
Fig. 2A- Annual length composition of Cod on Division 3N 130mm trawl fishery in 2004.
Year 2004
n =752

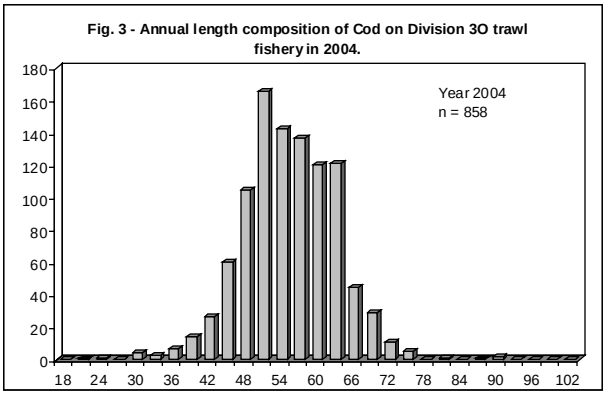
Fig. 3 - Annual length composition of Cod on Division 3O trawl fishery in 2004.
Year 2004
n = 858

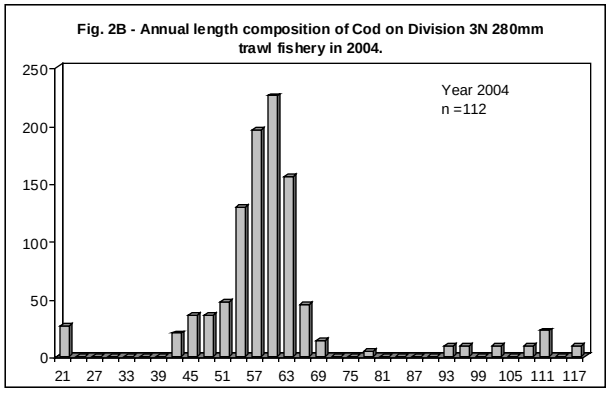
Fig. 2B - Annual length composition of Cod on Division 3N 280mm trawl fishery in 2004.
Year 2004
n =112

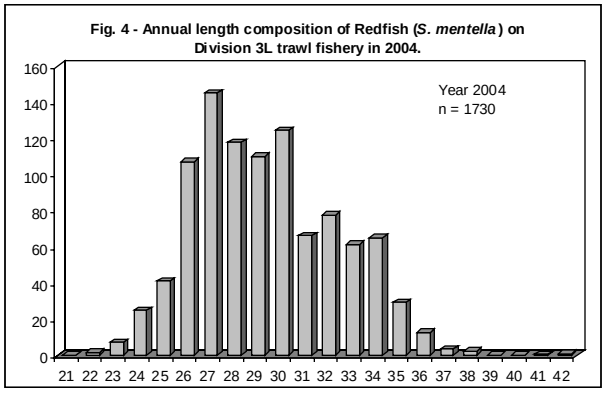
Fig. 4 - Annual length composition of Redfish (S. mentella) on Division 3L trawl fishery in 2004.
Year 2004
n = 1730

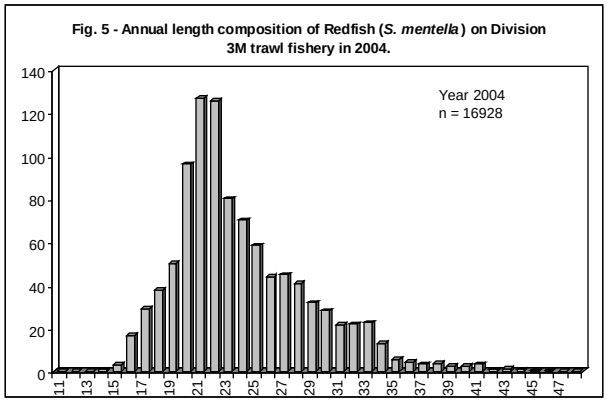
Fig. 5 - Annual length composition of Redfish (S. mentella) on Division 3M trawl fishery in 2004.
Year 2004
n = 16928

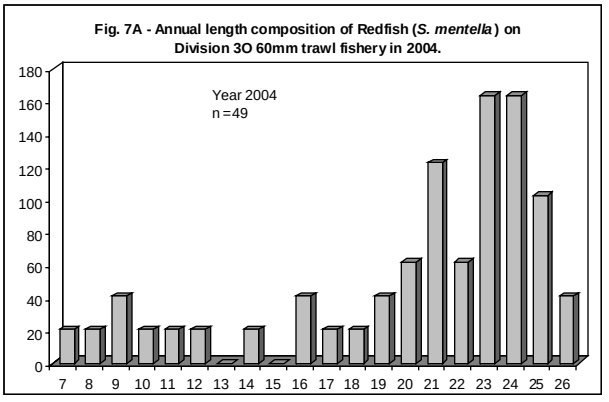
Fig. 7A - Annual length composition of Redfish (S. mentella) on Division 3O 60mm trawl fishery in 2004.
Year 2004
n =49

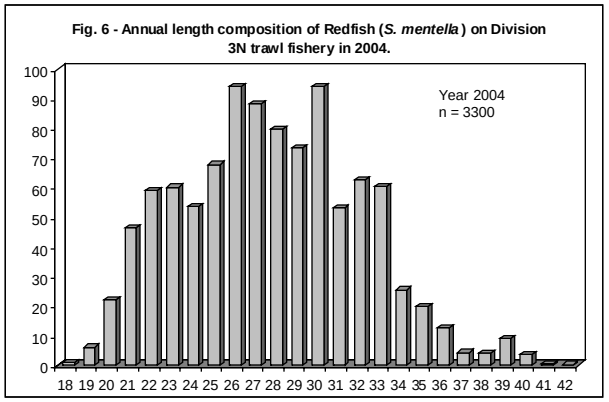
Fig. 6 - Annual length composition of Redfish (S. mentella) on Division 3N trawl fishery in 2004.
Year 2004
n = 3300

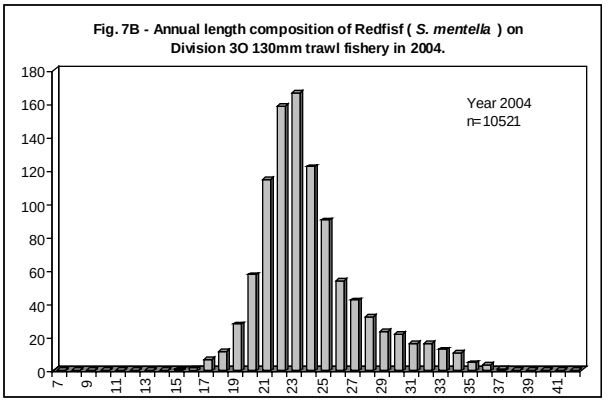
Fig. 7B - Annual length composition of Redfisf (S. mentella) on Division 3O 130mm trawl fishery in 2004.
Year 2004
n=10521

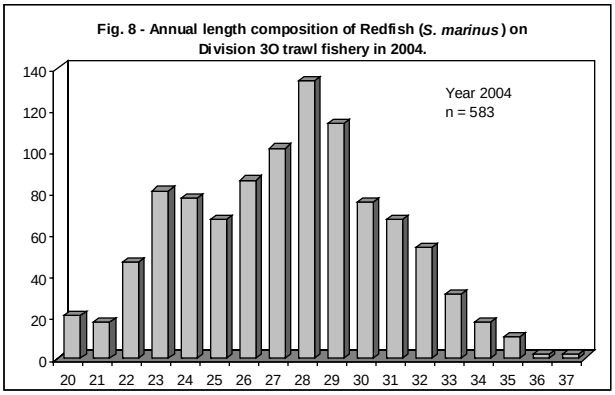
Fig. 8 - Annual length composition of Redfish (S. marinus) on Division 3O trawl fishery in 2004.
Year 2004
n = 583

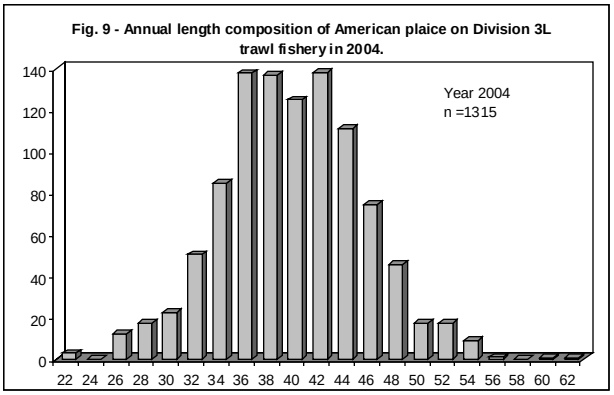
Fig. 9 - Annual length composition of American plaice on Division 3L trawl fishery in 2004.
Year 2004
n =1315

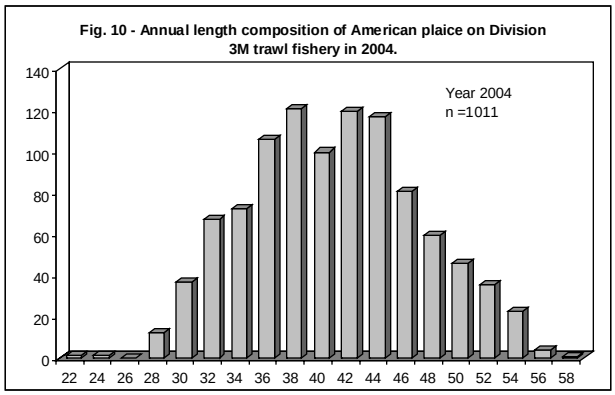
Fig. 10 - Annual length composition of American plaice on Division 3M trawl fishery in 2004.
Year 2004
n =1011

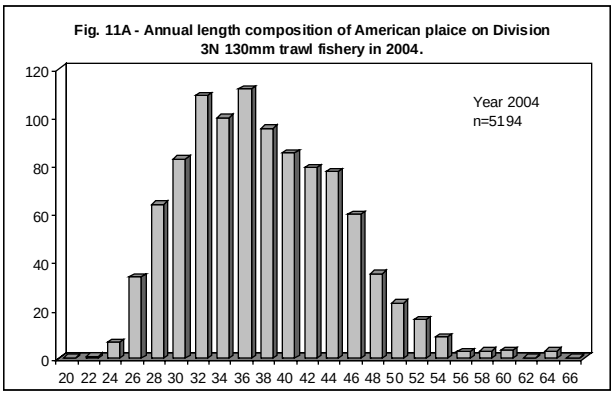
Fig. 11A - Annual length composition of American plaice on Division 3N 130mm trawl fishery in 2004.
Year 2004
n=5194

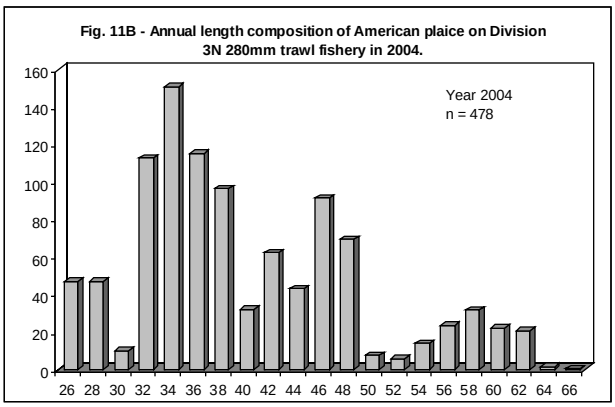
Fig. 11B - Annual length composition of American plaice on Division 3N 280mm trawl fishery in 2004.
Year 2004
n = 478

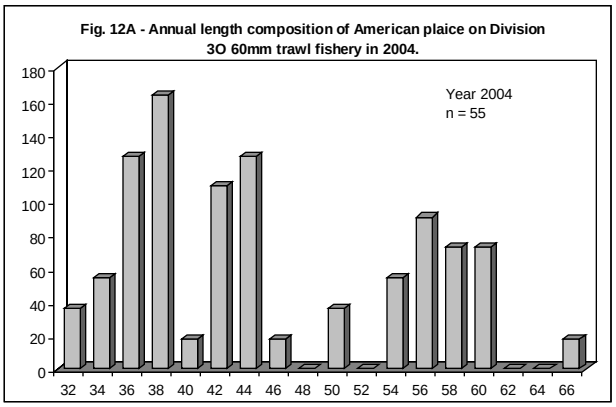
Fig. 12A - Annual length composition of American plaice on Division 3O 60mm trawl fishery in 2004.
Year 2004
n = 55

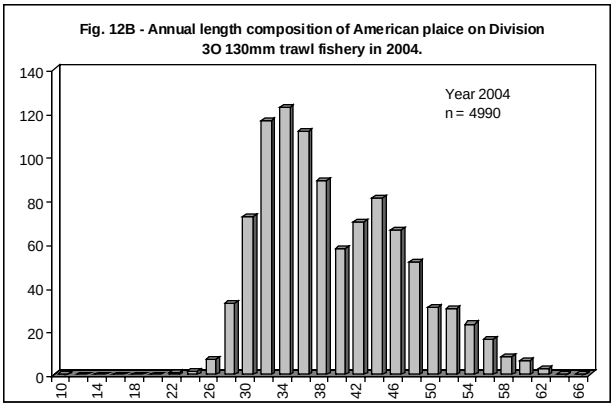
Fig. 12B - Annual length composition of American plaice on Division 3O 130mm trawl fishery in 2004.
Year 2004
n = 4990

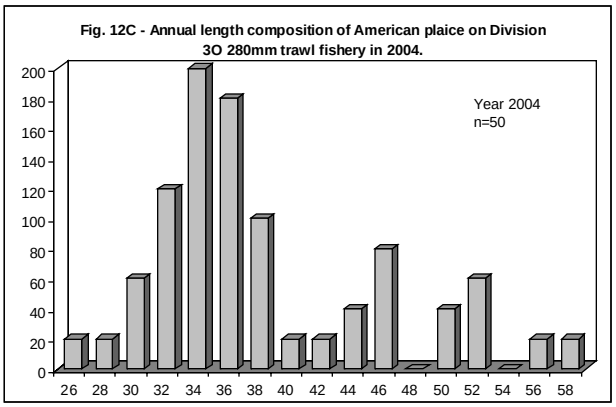
Fig. 12C - Annual length composition of American plaice on Division 3O 280mm trawl fishery in 2004.
Year 2004
n=50

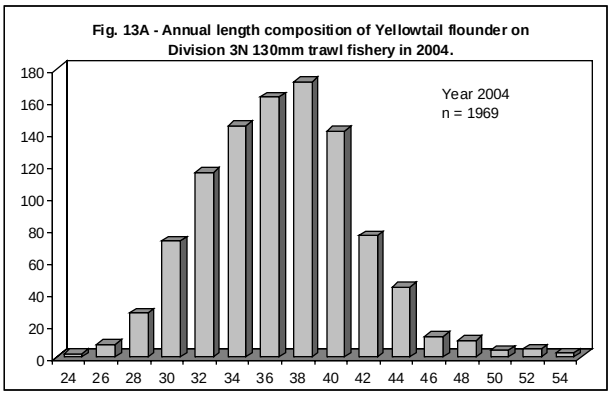
Fig. 13A - Annual length composition of Yellowtail flounder on Division 3N 130mm trawl fishery in 2004.
Year 2004
n = 1969

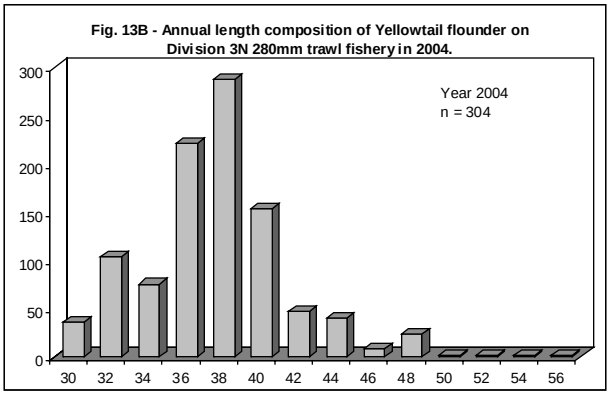
Fig. 13B - Annual length composition of Yellowtail flounder on Division 3N 280mm trawl fishery in 2004.
Year 2004
n = 304

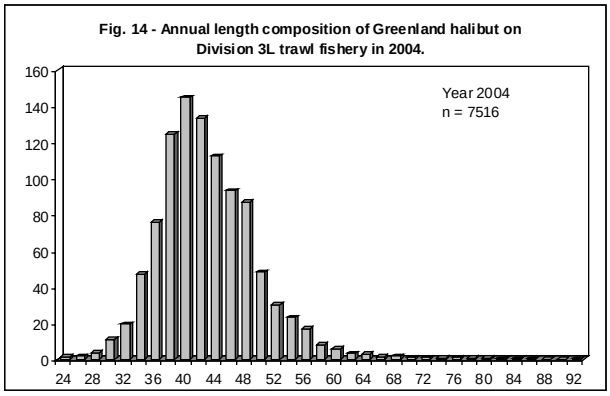
Fig. 14 - Annual length composition of Greenland halibut on Division 3L trawl fishery in 2004.
Year 2004
n = 7516

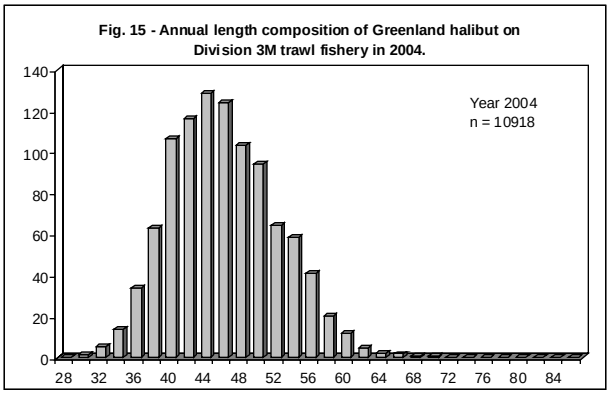
Fig. 15 - Annual length composition of Greenland halibut on Division 3M trawl fishery in 2004.
Year 2004
n = 10918

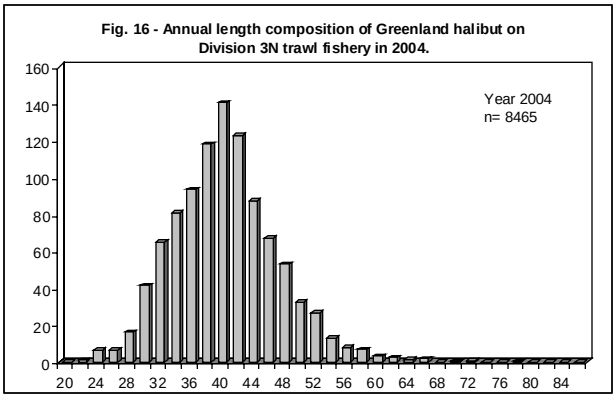
Fig. 16 - Annual length composition of Greenland halibut on Division 3N trawl fishery in 2004.
Year 2004
n= 8465

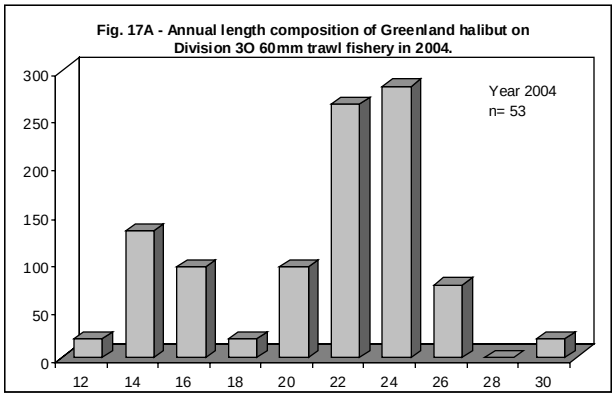
Fig. 17A - Annual length composition of Greenland halibut on Division 3O 60mm trawl fishery in 2004.
Year 2004
n= 53

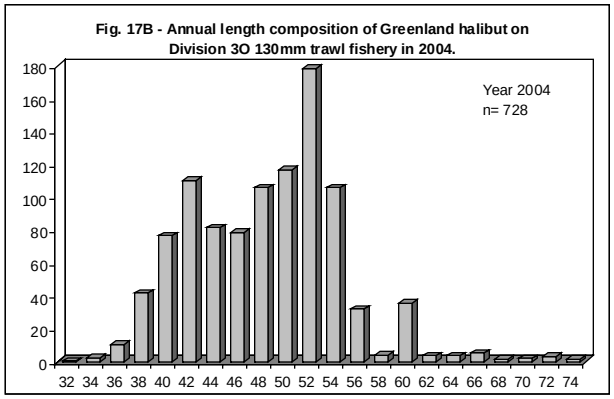
Fig. 17B - Annual length composition of Greenland halibut on Division 3O 130mm trawl fishery in 2004.
Year 2004
n= 728

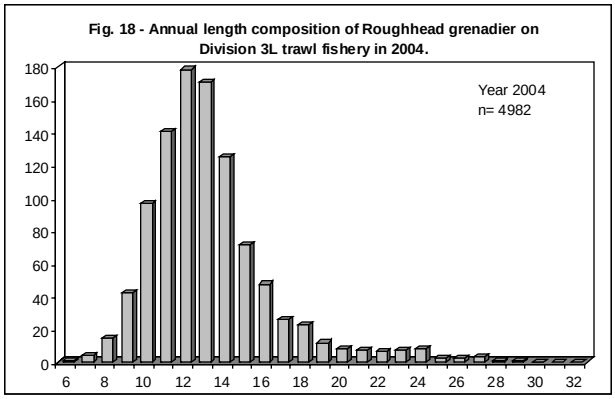
Fig. 18 - Annual length composition of Roughhead grenadier on Division 3L trawl fishery in 2004.
Year 2004
n= 4982

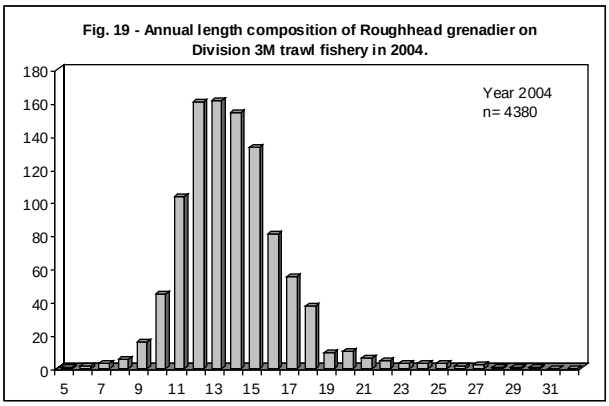
Fig. 19 - Annual length composition of Roughhead grenadier on Division 3M trawl fishery in 2004.
Year 2004
n= 4380

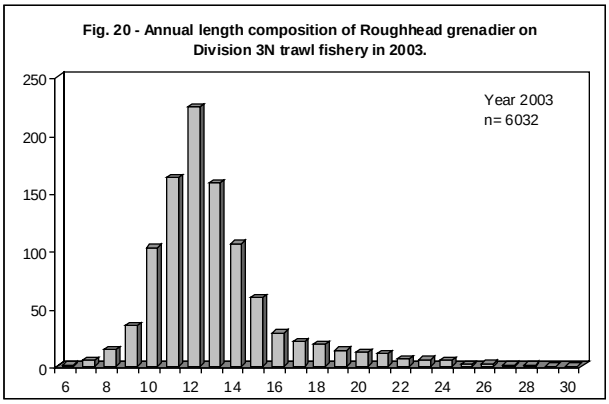
Fig. 20 - Annual length composition of Roughhead grenadier on Division 3N trawl fishery in 2003.
Year 2003
n= 6032

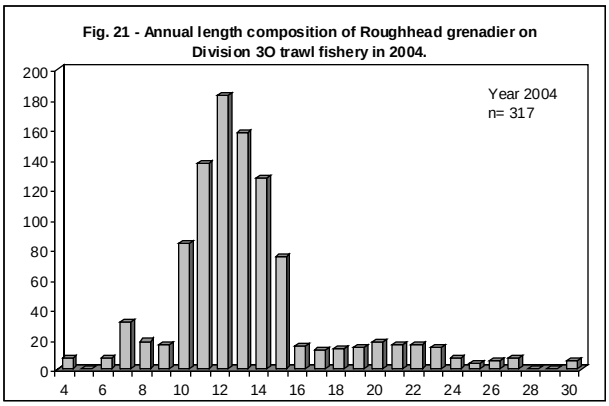
Fig. 21 - Annual length composition of Roughhead grenadier on Division 3O trawl fishery in 2004.
Year 2004
n= 317

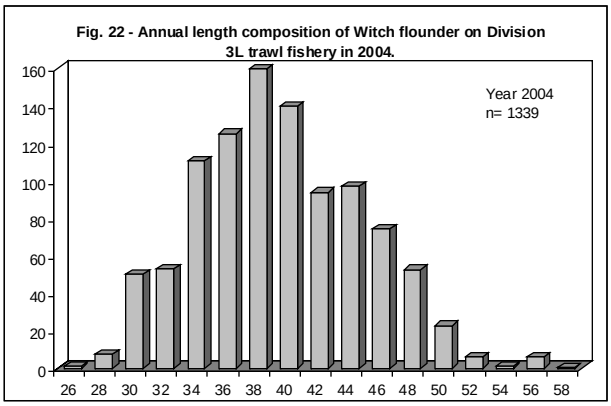
Fig. 22 - Annual length composition of Witch flounder on Division 3L trawl fishery in 2004.
Year 2004
n= 1339

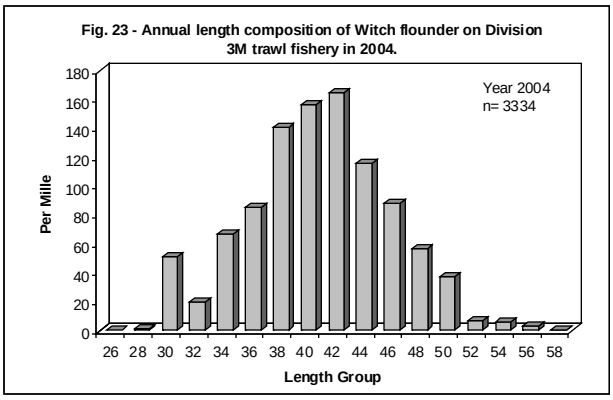
Fig. 23 - Annual length composition of Witch flounder on Division 3M trawl fishery in 2004.
Year 2004
n= 3334
Per Mille
Length Group

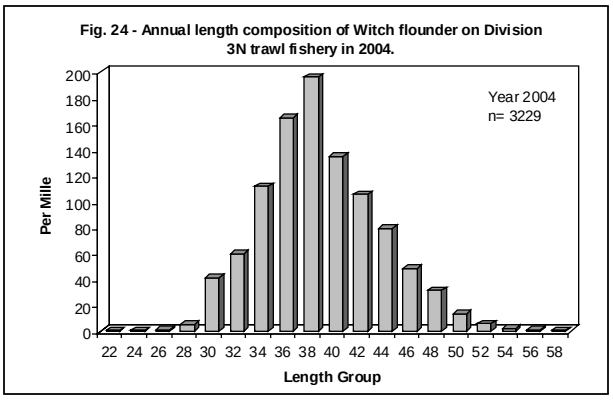
Fig. 24 - Annual length composition of Witch flounder on Division 3N trawl fishery in 2004.
Year 2004
n= 3229
Per Mille
Length Group

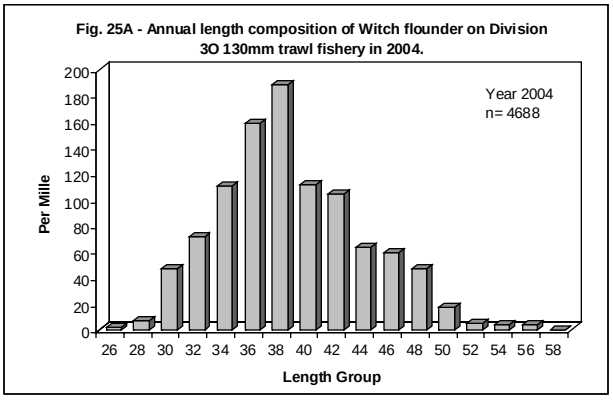
Fig. 25A - Annual length composition of Witch flounder on Division 3O 130mm trawl fishery in 2004.
Year 2004
n= 4688
Per Mille
Length Group

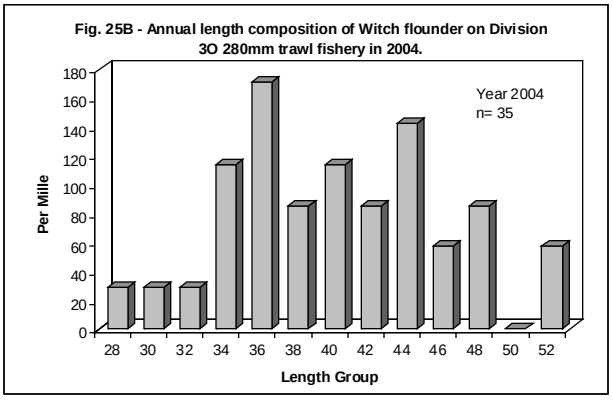
Fig. 25B - Annual length composition of Witch flounder on Division 3O 280mm trawl fishery in 2004.
Year 2004
n= 35
Per Mille
Length Group

Fig. 26 - Annual length composition of White hake on Division 3N trawl fishery in 2004.

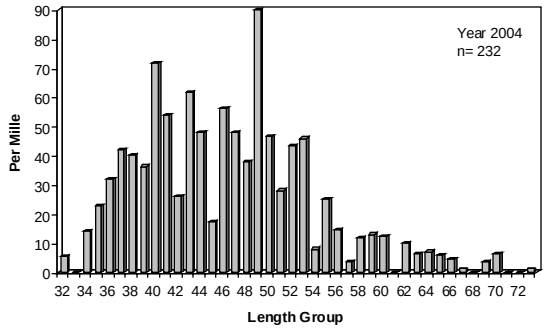

Fig.27A- Annual length composition of White hake on Division 3O 60mm trawl fishery in 2004.

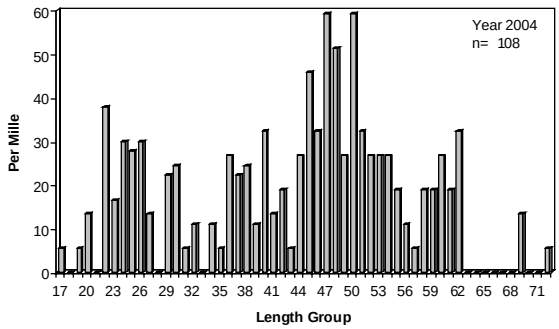

Fig. 27B - Annual length composition of White hake on Division 3O 130mm trawl fishery in 2004.

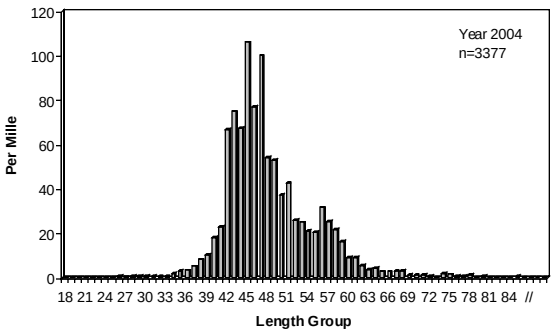

Fig. 28- Annual length composition of Thorny skate on Division 3L trawl fishery in 2004.

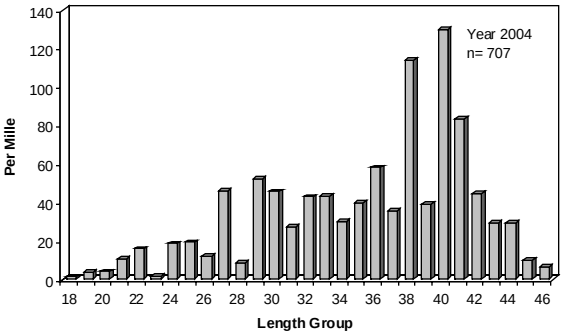

Fig. 29 - Annual length composition of Thorny skate on Division 3M trawl fishery in 2004.

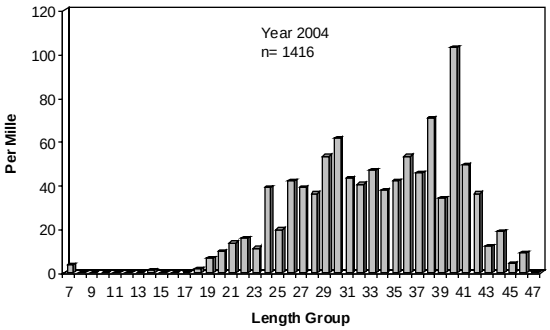

Fig.30A- Annual length composition of Thorny skate on Division 3N 130mm trawl fishery in 2004.

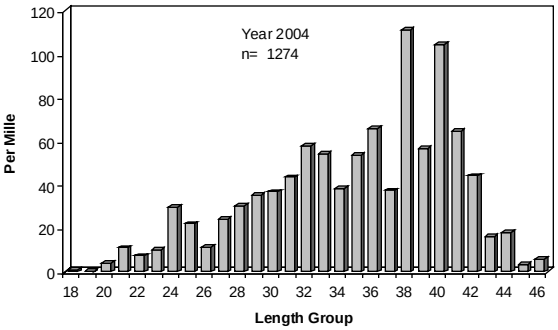

Fig. 30B - Annual length composition of Thorny skate on Division 3N 280mm trawl fishery in 2004.

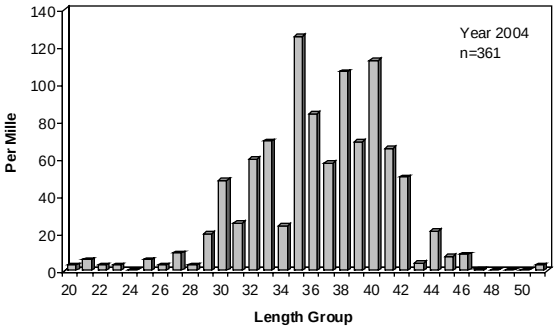

Fig. 31A- Annual length composition of Thorny skate on Division 3O 60mm trawl fishery in 2004.

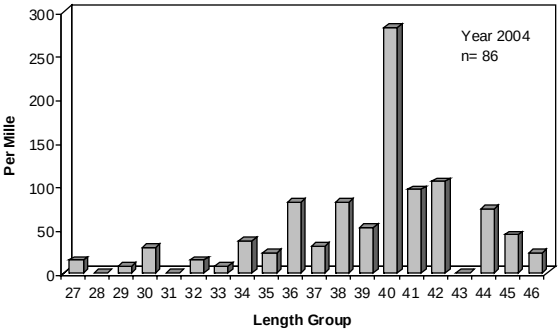

Fig. 31B - Annual length composition of Thorny skate on Division 3O 130mm trawl fishery in 2004.

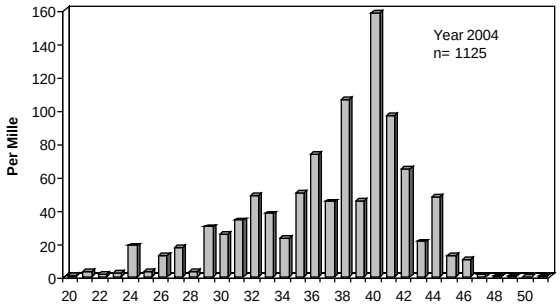

Fig. 31 C- Annual length composition of Thorny skate on Division 3O 280mm trawl fishery in 2004.

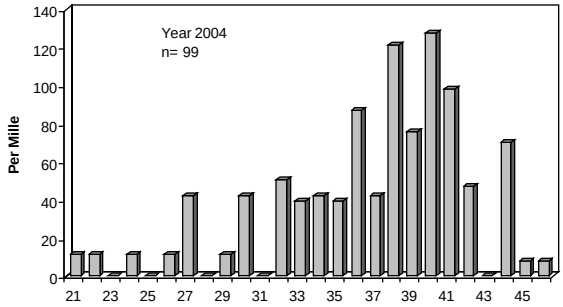

Fig. 32 - Annual length composition of Spinytail skate on Division 3L trawl fishery in 2004.

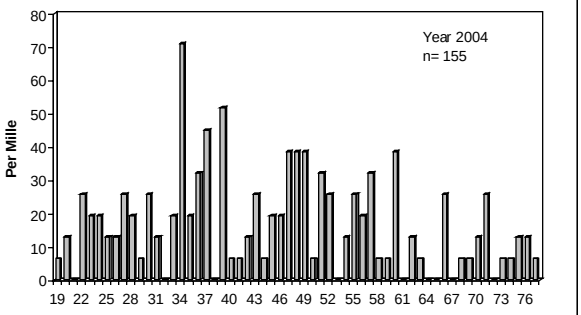

Fig. 33 - Annual length composition of Spinytail skate on Division 3M trawl fishery in 2004.

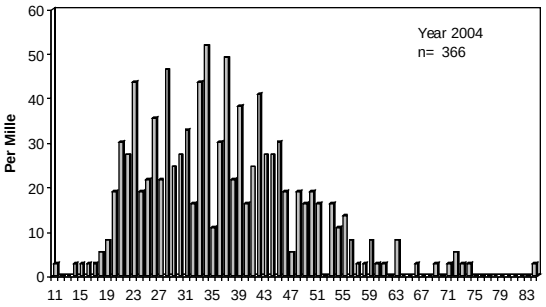

Fig. 34 - Annual length composition of Spinytail skate on Division 3N trawl fishery in 2004.

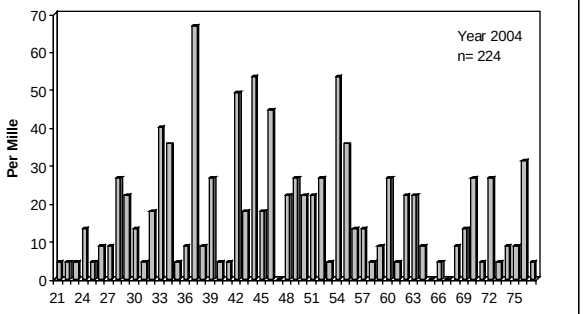

Fig.35- Annual length composition of Spinytail skate on Division 3O trawl fishery in 2004.

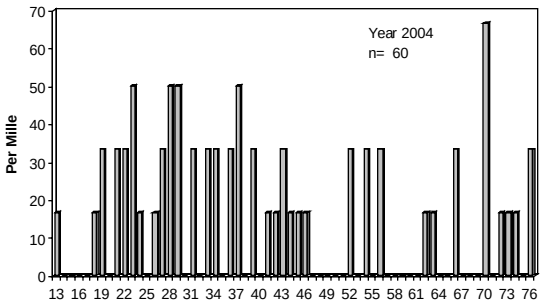

Fig. 36 - Annual length composition of Monkfish on Division 3N 130mm trawl fishery in 2004.

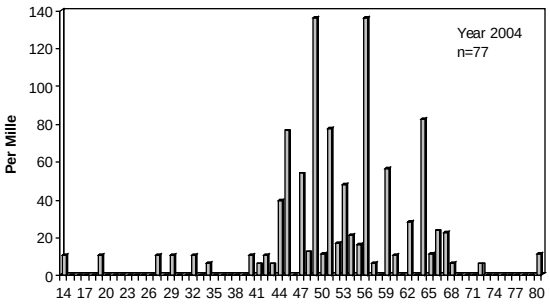

Fig. 37 - Annual length composition of Monkfish on Division 3O 130mm trawl fishery in 2004.