Northwest Atlantic Fisheries Organization

Serial No. N5881 **NAFO SCS Doc. 11/05**

SCIENTIFIC COUNCIL MEETING – JUNE 2011

PORTUGUESE RESEARCH REPORT FOR 2010

by

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A. Status of the fisheries

In 2010, the Portuguese provisional nominal catches proceeding from NAFO Regulatory Sub Area 3 have reached 15 135 ton (Table 1-A). This value is similar to 2009, when the catches reached the highest value since 2003. Over recent years, nominal catches increased continuously from 2000 to 2003, when they peak at 21 300 ton, but declined sharply afterwards; between 2004 and 2008 become stable between 11 500-13 000 ton (Table I-B).

From 2009 to 2010 the number of fishing days remains stable in Div. 3L and 3M, but increased in Div. 3N by 40% and in Div. 3O by 12%. In 2010, 12 trawlers composed the Portuguese fleet that operated in the NAFO area.

Due to the opening of the fishery for cod in Div. 3M (Flemish Cap) cod represented 20% of the total catch in this division. Catches of redfish decreased in Div. 3M (5%) and 3O (10%) but the total catch of this species was kept at the same level due to the increase observed in Div. 3N (see below). Redfish continues to be by far the most important species in the Portuguese commercial catches from Sub Area 3, representing in recent years more than 50% of the overall catch.

The by-catch of witch flounder and yellowtail flounder fell again by half in Div. 3M and Div. 3N, respectively. The fishery of shrimp in Div. 3L (that, in 2009, have reached 20% of the total catch in this division) declined to very low values. On Div. 3M and 3N the catches of skates dropped, with average losses of 85%. Also the roughhead grenadier catch in Div. 3L fell almost 70% and in Div. 3N are reached an historical low.

The Greenland halibut catch increased 9% in 2010, due to the increase observed on Div. 3L (35%) On Div. 3L the bulk of the catch is now of Greenland halibut and redfish (around 90%).

The catches of other species remained stable in all divisions.

The catch in Div. 3M continue to represent 45% of the total catch in 2010. This division is at present the most important ground for the Portuguese NAFO fishery. On both Div. 3M and 3O, redfish is the most important fishery with an average of 80% of the total catch. Also in Div. 3N the redfish fishery is now the most important fishery (84% of the total catch), replacing the skate fishery that over most recent years represented 50% -70% of the catch in this division.

B. Portuguese Annual Sampling Program

1. Catch and effort sampling.

Effort and CPUE data for 2010 Portuguese trawl fishery on the NAFO Regulatory Area were obtained through the revision of skipper logbooks from three 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 in days and hours were supplied by the Portuguese administration, changes in the administration database make it possible since 2009 (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. From the data available the majority of the fishing effort was directed towards Greenland halibut, redfish, skates and cod. Data regarding directed effort and catch rates of the Greenland halibut fishery are presented in Table III to IV-B and Fig. 1.

The Greenland halibut CPUE series was updated with the 2010 observed CPUEs. The additive model (Ávila de Melo and Alpoim, 1995), was upgraded in 1998 (Alpoim *et al.*, 1998) and used, like in previous years, to standardise the observed CPUEs, but excluding the vessel factor because the sampling program in recent years was carried out on vessels that were not sampled before. If the vessel factor is applied, these new vessels will increased a lot the noised. Because they are the only vessels sampled in the recent years, we assumed that all vessels belong to the same category what is realistic. From January 1988 till April 1995 each monthly observed CPUE of this series was previously corrected for 130mm mesh size (Ávila de Melo and Alpoim, 1996). In this analysis, any observation corresponding to a month and a trawler with less than 10 hours of directed effort was rejected. The CPUEs are presented in Tables IV and Fig. 1, with the associated standard errors (+/- 2 standard errors in the Figures) and coefficients of variation.

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

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

In Div. 3L catch rates declined prior to the boom of the deep-water fishery (Table IV-A, Fig. 1). However, it is from 1990 to 1991, i.e. from the first to the second year of this new fishery in the Regulatory Area, that CPUEs fell by half. Between 1991 and 1994 catch rates remained stable at a low level. Since then, catch rates gradually increased, reaching an upper level in 1999-2000. Catch rates declined in 2001 and remained stable at that lower level in 2002 and 2003. In 2004 the catch rates decline again, reaching the lowest value since 1994. However, after 2004 the Greenland halibut catch rates in Div. 3L recovered continuously (except in 2008) and in 2009 reached a value never observed (0.704 ton/h) since the monitory of this fishery. In 2010, however, the catch rate fell to above the values of the ones observed in the last four years and is at the level of 2005.

The Div. 3M catch rate suffer, in 2010, a more drastic decrease than Div. 3L.

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 2010, biological sampling was obtained from three stern trawlers fishing in Div. 3L, 3M, 3N and 3O during all the year. Apart from species under moratoria, a priority to be sampled whenever they appear in the hauls, biological sampling was conducted for the two most abundant species in each haul, following the NAFO sampling recommendations.

Redfish (*S. mentella*), American plaice, witch flounder, Greenland halibut and thorny skate were sampled in Div. 3L, 3M, 3N and 3O (Tab. V). Cod was sampled in Div. 3M, 3N and 3O. Roughhead grenadier was sampled in Div.

3L, 3M and 3N. Redfish (*S, marinus*) was sampled in Div. 3L, 3M and 3O. Spinytail skate was sampled in Div. 3L and 3M. Yellowtail flounder was sampled only in Div. 3N. White hake and haddock were sampled only in Div. 3O.

Since 1996, all commercial information is representative of the catch as a whole, although sampling continues to be carried out by sex with the exception of cod, white hake, Atlantic halibut, skates and haddock. Mean weight and mean weight in the catch are derived from the length-weight relationships calculated from the commercial sampling in 2010 (Table VI).

2.1. Catch and bycatch composition of the 2010 trawl fishery (130mm codend mesh size).

The regular mesh size in the codend used by the monitored trawlers fishing groundfish was the 130mm and when the mesh size is not mentioned it means that the sample refers to the 130mm mesh size. Nevertheless some sets in Div. 3N and Div.3O were made with a skate trawl net with 280mm mesh size in the codend, representing 20% and 35% of the total effort sampled in each division respectively. In these sets the main species were sampled. The size of these catches within the overall sampled catch in Div. 3N is about 33% for cod, 69% for American plaice, 15% for yellowtail flounder and 68% for thorny skate. The size of these catches within the overall sampled catch in Div. 3O is about 2% for redfish (*S. mentella*), 47% for American plaice, 22% for witch flounder and 90% for thorny skate.

2.1.1. Cod Div. 3M

Information on length composition of the cod by-catch in Div. 3M is available from March to December (Table VII-A, Fig. 2A), from 212 m to 819 m depth.

Lengths between 42 cm and 63 cm dominated the catch, with a modal class at 54 cm (mean length and weight of 55.6 cm and 1775 g).

The Div. 3M cod age–length key is presented in Table VII-B.

The 2008-2005 year classes, 2 to 5 years old in 2010, dominated the trawl catches, being the 2006 and 2007 year classes the most represented (Tab. VII-C, Fig. 2B).

2.1.2. Cod Div. 3N

Information on length composition of the cod by-catch in Div. 3N is available for February, April, October and November (Table VIII-A, Fig. 3A), from 48 m to 551 m depth.

Lengths between 24 cm and 42cm dominated the catch, with a clear modal class at 30 cm (mean length and weight of 36.7 cm and 534 g).

2.1.3. Cod Div. 3N **(280mm codend mesh size)**

Information on length composition of the 280mm mesh size cod by-catch in Div. 3N is available for July, October and November (Table VIII-B, Fig. 3B), from 49 m to 105 m depth.

Lengths between 27 cm and 39 cm dominated the catch, with a modal class at 33 cm (mean length and weight of 34.3 cm and 369 g).

2.1.4. Cod Div. 3O

Information on length composition of the cod by-catch in Div. 30 is available from February to November, except for August (Table IX, Fig. 4), from 158 m to 544 m depth.

Lengths between 36 cm and 42 cm dominated the catch, with a very clear modal class at 39 cm (mean length and weight of 45 cm and 906 g).

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

Information on length composition of the redfish (*S. mentella)* trawl by-catch in Div. 3L is available for March, April and November (Table X, Fig. 5), from 404 m to 965 m depth.

Lengths between 21 cm and 32 cm dominated the catch, with three peaks at 23 cm, 28 cm and 30 cm length classes (mean length and weight of 27.3 cm and 304 g).

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

Information on length composition of the redfish (*S. mentella)* trawl catch in Div. 3M is available from February to November, except for August (Table XI, Fig. 6), from 109 m to 1120 m depth.

Lengths between 20 cm and 24 cm dominated the catch, with a modal class at 22 cm (mean length and weight of 23.8 cm and 209 g).

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

Information on length composition of the redfish (*S. mentella)* trawl by-catch in Div. 3N is available for February, April, July, October and November (Table XII, Fig. 7), from 260 m to 551 m depth.

Lengths between 19 cm and 23 cm dominated the catch, with a very clear modal class at 22 cm (mean length and weight of 22.5 cm and 173 g).

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

Information on length composition of the redfish (*S. mentella)* trawl catch in Div. 3O is available from February to November, except for May (Table XIII-A, Fig. 8A), from 148 m to 544 m depth.

Lengths between 19 cm and 23 cm dominated the catches, with a modal class at 21 cm (mean length and weight of 22.4 cm and 171 g).

2.1.9. Redfish (*S. mentella*) **Div. 3O (280mm codend mesh size)**

Information on length composition of the 280mm mesh size redfish (*S. mentella)* trawl catch in Div. 3O is available only for October (Table XIII-B, Fig. 8B), from 235 m to 250 m depth.

Lengths between 22 cm and 25 cm dominated the catches, with a modal class at 22 cm (mean length and weight of 23.6 cm and 189 g).

2.1.10. Redfish (*S. marinus*) **Div. 3L**

Information on length composition of the redfish (*S. marinus)* trawl catch in Div. 3L is available only for April (Table XIV, Fig. 9), from 802 m to 997 m depth.

Lengths between 25 cm and 31 cm dominated the catch, with a modal class at 28 cm (mean length and weight of 29 cm and 345 g).

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

Information on length composition of the redfish (*S. marinus)* trawl catch in Div. 3M is available from March to December, except for July and September (Table XV, Fig. 10), from 220 m to 1006 m depth.

Lengths between 25 cm and 31 cm dominated the catch, with a modal class at 28 cm (mean length and weight of 28.9 cm and 384 g).

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

Information on length composition of the redfish (*S. marinus)* trawl catch in Div. 3O is available only for March and May (Table XVI, Fig. 11), from 143 m to 479 m depth.

Lengths between 20 cm and 34 cm dominated the catches, with a modal class at 28 cm (mean length and weight of 27.6 cm and 280 g).

2.1.13. American plaice Div. 3L

Information on length composition of the American plaice by-catch in Div. 3L is available only for April (Table XVII, Fig. 12), from 802 m to 892 m depth.

Despite the small sampling (2 samples, 147 fish measured), data shows that the length range of the catch was between 18 cm and 54 cm (mean length and weight of 38.8 cm and 593 g).

2.1.14. American plaice Div. 3M

Information on length composition of the American plaice by-catch in Div. 3M is available only for October (Table XVIII, Fig. 13), from 211 m to 228 m depth.

Despite the small sampling (1 sample, 83 fish measured), the data shows that the lengths between 30 and 38 cm dominated the catch (mean length and weight of 39.1 cm and 632 g).

2.1.15. American plaice Div. 3N

Information on length composition of the American plaice by-catch in Div. 3N is available for February, May and October (Table XIX-A, Fig. 14A), from 50 m to 886 m depth.

Lengths between 22 cm and 46 cm, dominated the catches, with a modal class at 28 cm (mean length and weight of 35.5 cm and 518 g).

2.1.16. American plaice Div. 3N (280 mm codend mesh size)

Information on length composition of the 280 mm mesh size American plaice by-catch in Div. 3N is available for July, October and November (Table XIX-B, Fig. 14B), from 49 m to 90 m depth.

Lengths between 26 cm and 32 cm dominated the catch, with a mode at 28 cm (mean length and weight of 37.1 cm and 587 g).

2.1.17. American plaice Div. 3O

Information on length composition of the American plaice by-catch in Div. 3O is available from February to October (Table XX-A, Fig. 15A), from 127 m to 690 m depth.

Lengths between 22 cm and 38 cm dominated the catch, with a very clear modal class at 26 cm (mean length and weight of 32.2 cm and 377 g).

2.1.18. American plaice Div. 3O (280 mm codend mesh size)

Information on length composition of the 280 mm mesh size American plaice by-catch in Div. 3O is available for March, October and November (Table XX-B, Fig. 15B), from 97 m to 159 m depth.

Lengths at 24 cm and between 30 cm and 34 cm dominated the catch, with a two peaks at 24cm and 32-34 cm (mean length and weight of 35.1 cm and 509 g).

2.1.19. Yellowtail flounder Div. 3N

Information on length composition of the yellowtail flounder catch in Div. 3N is available only for October (Table XXI-A, Fig. 16A), from 50 m to 68 m depth.

Despite the small sampling (1 sample, 84 fish measured), the data shows that the length range of the catch was between 28cm and 60 cm (mean length and weight of 39.9 cm and 650 g).

2.1.20. Yellowtail flounder Div. 3N (280 mm codend mesh size)

Information on length composition of the 280 mm mesh size Yellowtail flounder catch in Div. 3N is available only for November (Table XXI-B, Fig. 16B), at 59 m depth.

Despite the small sampling (1 sample, 53 fish measured), data show that the length range of the catch was between 20 cm and at 38 cm (mean length and weight of 30 cm and 240 g).

2.1.21. Greenland halibut Div. 3L

Information on length composition of the Greenland halibut catches in Div. 3L is available from February to December, except for July and August (Table XXII, Fig. 17), from 802 m to 1531 m depth.

Lengths between 38 cm and 50 cm dominated the catch, with a modal class at 42 cm (mean length and weight of 45.2 cm and 827 g).

2.1.22. Greenland halibut Div. 3M

Information on length composition of the Greenland halibut catches in Div. 3M is available from February to November, except for July and August (Table XXIII, Fig. 18), from 109 m to 1157 m depth.

Lengths between 40 cm and 50 cm dominated the catch, with a modal class at 48 cm (mean length and weight of 46.5 cm and 891 g).

2.1.23. Greenland halibut Div. 3N

Information on length composition of the Greenland halibut catches in Div. 3N is available for May, October and November (Table XXIV, Fig. 19), from 296 m to 958 m depth.

Lengths between 44 cm and 52 cm dominated the catch, with a very clear modal class at 48 cm (mean length and weight of 49.4 cm and 1072 g).

2.1.24. Greenland halibut Div. 3O

Information on length composition of the Greenland halibut catches in Div. 3O is available for February and June and from August to November (Table XXV, Fig. 20), from 200 m to 690 m depth.

Lengths between 44 cm and 56 cm dominated the catch, with a modal class at 48 cm (mean length and weight of 50.6 cm and 1155 g).

2.1.25. Roughhead grenadier Div. 3L

Information on length composition of the roughhead grenadier catches in Div. 3L is available from March to December, except for July and August (Table XXVI, Fig. 21), from 808 m to 1496 m depth.

Anal fin lengths between 11 cm and 13 cm dominated the catch, with a very clear modal class at 12 cm (mean length and weight of 13.3 cm and 275 g).

2.1.26. Roughhead grenadier Div. 3M

Information on length composition of the roughhead grenadier catches in Div. 3M is available from February to June and for September and November (Table XXVII, Fig. 22), from 792 m to 1157 m depth.

Anal fin lengths between 11 cm and 14 cm dominated the catch, with a clear modal class at 12 cm (mean length and weight of 13.2 cm and 265 g).

2.1.27. Roughhead grenadier Div. 3N

Information on length composition of the roughhead grenadier catches in Div. 3N is available only for May (Table XXVIII, Fig. 23), from 845 m to 922 m depth.

Despite the small sampling (1 samples, 71 fish measured), the data shows that anal fin lengths between 15 cm and 18 cm dominated the catch (mean length and weight of 17.9 cm and 597 g).

2.1.28. Witch flounder Div. 3L

Information on length composition of the witch flounder catches in Div. 3L is available only for April (Table XXIX, Fig. 24), from 873 m to 926m depth.

Despite the small sampling (1 samples, 108 fish measured), the data shows that lengths between 32 cm and 40 cm dominated the catch, with a modal class at 34 cm (mean length and weight of 36.7 cm and 538 g).

2.1.29. Witch flounder Div. 3M

Information on length composition of the witch flounder catches in Div. 3M is available only for November (Table XXX, Fig. 25), from 297 m to 302 m depth.

Data from one sample (145 fish measured), shows that length range of the catch was between 28 cm and 48 cm (mean length and weight of 39.2 cm and 649 g).

2.1.30. Witch flounder Div. 3N

Information on length composition of the witch flounder catches in Div. 3N is available for October and November (Table XXXI, Fig. 26), from 273 m to 347m depth.

Lengths between 28cm and 46cm dominated the catch, with a modal class at 40cm (mean length and weight of 38.9 cm and 623 g).

2.1.31. Witch flounder Div. 3O

Information on length composition of the witch flounder catch in Div. 3O is available for February, March, July, October and November (Table XXXII-A, Fig. 27A), from 148 m to 690 m depth.

Lengths between 26cm and 34cm dominated the catch, with a modal class at 32 cm (mean length and weight of 31.5 cm and 379 g).

2.1.32. Witch flounder Div. 3O (280mm codend mesh size)

Information on length composition of the 280 mm mesh size witch flounder catches in Div. 3O is available for October and November (Table XXXII-B, Fig. 27B), from 66 m to 250 m depth.

Lengths between 28cm and 44cm dominated the catch, with no modal class (mean length and weight of 37.7 cm and 580 g).

2.1.33. Thorny skate Div. 3L

Information on length composition of the thorny skate catches in Div. 3L is available only for May (Table XXXIII, Fig. 28), from 859 m to 870 m depth.

Despite the small sampling (1 sample, 55 fish measured), the data shows that lengths between 44 cm and 48 cm and at 56 cm dominated the catch (mean length and weight of 49.4 cm and 1654 g).

2.1.34. Thorny skate Div. 3M

Information on length composition of the thorny skate catches in Div. 3M is available for March and April and from June to October, except August (Table XXXIV, Fig. 29), from 255 m to 845 m depth.

Lengths between 30cm and 62cm dominated the catch, with a very clear modal class at 40 cm (mean length and weight of 46.6 cm and 1907 g).

2.1.35. Thorny skate Div. 3N

Information on length composition of the thorny skate catches in Div. 3N is available only for October (Table XXXV-A), from 310 m to 343 m depth.

Data available come from only one sample (22 fish measured), it is not possible to comment about length class abundance, but the length range was from 38 cm to 70 cm (mean length and weight of 55.7 cm and 3145 g).

2.1.36. Thorny skate Div. 3N (280 mm codend mesh size)

Information on length composition of the 280 mm mesh size thorny skate catches in Div. 3N is available only for October (Table XXXV-B), from 57 m to 69 m depth.

Data available come from only one sample (22 fish measured), it is not possible to comment about length class abundance, but the length range was from 40 cm to 66 cm (mean length and weight of 56 cm and 3174 g).

2.1.37. Thorny skate Div. 3O

Information on length composition of the thorny skate catches in Div. 3O is available from June to October, except for August (Table XXXVI-A, Fig. 30A), from 149 m to 530 m depth.

Lengths between 46cm and 56cm dominated the catch, with a modal class at 48cm (mean length and weight of 51.4 cm and 1910 g).

2.1.38. Thorny skate Div. 3O (280 mm codend mesh size)

Information on length composition of the 280 mm mesh size thorny skate catches in Div. 3O is available only for March (Table XXXVI-B, Fig. 30B), from 127 m to 140 m depth.

Despite the small sampling (1sample, 77 fish measured), data shows that lengths between 36 cm and 40 cm dominated the catch, with a modal class at 38 cm (mean length and weight of 38.2 cm and 1393 g).

2.1.39. Spinytail skate Div. 3L

Information on length composition of the spinytail skate catches in Div. 3L is available only for October and November (Table XXXVII, Fig. 31), from 890 m to 1441 m depth.

Because sampling data is based on a small number of observations (5 samples, 62 fish measured) and due to the large range of lengths showed (30 cm to 114 cm), there are no comments about length class abundance (mean length and weight of 75.2 cm and 6475 g).

2.1.40. Spinytail skate Div. 3M

Information on length composition of the spinytail skate catches in Div. 3M is available only for March (Table XXXVIII), from 930 m to 1050 m depth.

Data available come from only one sample (11 fish measured), it is not possible to comment about length class abundance (mean length and weight of 58.3 cm and 3125 g).

2.1.41. White hake Div. 3O

Information on length composition of the white hake catches in Div. 3O is available for March and from June to October, except for August (Table XXXIX, Fig. 32), from 191 m to 479 m depth.

Despite the large range of lengths, lengths between 45cm and 48cm dominated the catch, with a modal class at 48 cm (mean length and weight of 47.3 cm and 929 g).

2.1.42. Haddock Div. 3O

Information on length composition of the haddock catches in Div. 3M is available only for September (Table XL, Fig. 33), from 183 m to 186 m depth.

Data available come from only one sample (71 fish measured), but the lengths range was from 35 cm to 55 cm, with a modal class at 46 cm (mean length and weight of 44.5 cm and 720 g).

3. Acknowledgements

This study was supported by the European Commission (Program for the Collection of Data in Fisheries Sector) and INRB/IPIMAR. We thank to Dr. A. Vázquez from Instituto Investigacións Mariñas, Vigo, Spain, for ageing 3M cod otoliths from the Portuguese commercial catches.

4. References

ALPOIM, R., GODINHO, M. L., SANTOS, E. and ÁVILA de MELO, A. M. 1998. "Portuguese research Report for 1998". NAFO SCS Doc. 98/13 Ser. No N3025, 38p.

ÁVILA de MELO, A. M., ALPOIM, R. 1995. "Portuguese Cod Fisheries in NAFO Divisions 3N and 3O, 1989-93". NAFO Sci. Coun. Studies 23: 65-84.

ÁVILA de MELO, A. M., ALPOIM, R. 1996. "Greenland halibut deepwater fishery in Divisions 3L and 3N: an analysis of catch rate trends from Portuguese trawlers, 1988 -1995." NAFO SCR Doc. 96/33 Ser. No N2708,16p.

TABLE I-A: PORTUGUESE NOMINAL TRAWL CATCHES (mt) IN NAFO AREA, 2010.

	DIVISION				TOTAL
SPECIES	3L	3M	3N	3O	2010
Cod	36.3	1345.6	46.1	101.5	1529.5
Redfish	243.4	4702.9	1742.0	3854.2	10542.5
American plaice	19.5	27.5	46.3	67.6	160.8
Yellowtail flounder			24.9	1.0	25.9
Witch flounder	14.9	23.4	6.3	37.0	81.5
Greenland halibut	1652.2	524.4	72.3	8.9	2257.9
Atlantic halibut	0.9	9.3	22.8	22.5	55.5
Roughhead grenadier	47.6	29.2	4.9		81.7
Roundnose grenadier	11.2	1.2	13.3	0.4	26.2
Anarhichas spp.	0.4	13.6	0.5	0.0	14.6
Hadocck		0.0		1.8	1.8
Pollock					
White hake			0.2	16.1	16.3
Red hake	2.0	0.3			2.2
Capelin					
Skates	44.5	59.3	64.3	134.3	302.5
Monkfish		0.0	0.2	10.7	10.9
Squid		1.5		0.6	2.1
Shrimp	14.6	0.2			14.8
Unidentified	7.6	1.1			8.7
TOTAL	2095.2	6739.5	2044.1	4256.7	15135.4

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

SPECIES / YEAR	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000	1999
Cod	1529	1002	478	256	177	104	280	677	488	357	193	327
Redfish	10543	9360	8480	7317	7802	7337	5969	7710	6344	5324	5743	6081
American plaice	161	296	355	440	361	372	512	901	631	633	402	719
Yellowtail flounder	26	72	144	281	194	188	69	287	122	351	153	426
Witch flounder	82	130	219	122	137	150	588	501	433	579	228	508
Greenland halibut	2258	2075	2008	2018	2327	2256	1881	4611	4319	5026	4769	3995
Atlantic halibut	55	469	24	35	30	19	60	89	46	44	29	51
Roughhead grenadier (1)	82	265	78	33	138	263	380	292	508	610	396	1299
Roundnose grenadier	26	197	31	36								
Anarhichas spp.	15	43	26	16	30	31	46	106	87	141	61	549
Hadocck	2	3	1	2	0	6	23	131	78	23	13	10
Pollock							4	115				
White hake (2)	16	27	55	61	96	156	1265	3919	1969	273	41	77
Red hake	2		3	2	1	18	12	2				
Capelin												
Skates	302	1048	1086	1094	1003	575	1543	1816	1361	880	666	2168
Monkfish	11	5	12	22	25	5	74	156				
Squid	2	28	5		18		11					
Shrimp	15	323					50		15	420	289	227
Unidentified	9	87	3	2	1	3	11	13	43	41	3	117
TOTAL	15135	15429	13007	11737	12341	11483	12776	21324	16443	14701	12985	16554

TABLE I - B: cont.

SPECIES / YEAR	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988
Cod	549	1546	1318	1353	2636	3651	5984	13357	15138	24129	12931
Redfish	2368	1125	2152	2590	8609	9828	6581	12163	17810	18870	17072
American plaice	357	389	298	175	344	347	451	1288	714	1821	1791
Yellowtail flounder	85						1	10	11	5	
Witch flounder	381	347	236	375	573	289	849	1982	2254	16	12
Greenland halibut	3242	3343	3308	1814	5967	8805	10539	13961	11170	3614	4194
Atlantic halibut	30	17	12	18	45	53	81	228	91		
Roughhead grenadier (1)	1089	762	784	1402	2223	1969	2000	4486	3211	290	914
Roundnose grenadier											
Anarhichas spp.	140	185	122	1401	3219	2302	1696	2843	1940		
Hadocck	6	39		2	10	10	166	83	17		
Pollock					13	41	28	421	11		
White hake (2)	18	56	124	230	267	366	466	1009	467		
Red hake											
Capelin									77		
Skates	1105	904	788	2068	6238	7626	7017	23301	13569	663	1097
Monkfish				2		8	37	10	2		
Squid	1		3								
Shrimp	203	170									
Unidentified	40	116	22	14	12	238	325	174	852		
TOTAL	9614	9000	9167	11441	30156	35532	36220	75314	67334	49408	38011

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

TABLE II-A: PORTUGUESE TRAWL EFFORT IN FISHING DAYS AND FISHING HOURS IN NAFO AREA IN 2010.

MONTH	DIVISION								TOTAL		MONTH
	3L		3M		3N		3O				
	DAYS	HOURS	DAYS	HOURS	DAYS	HOURS	DAYS	HOURS	DAYS	HOURS	
JAN.	16	226	4	24					20	250	JAN.
FEB.	2	29	2	13	11	51	3	14	18	107	FEB.
MAR.	58	809	67	709	15	116	10	73	150	1706	MAR.
APR.	86	1320	102	985	6	34	6	39	200	2379	APR.
MAY	56	813	61	702	9	106	9	57	135	1677	MAY
JUN.	15	252	88	1182	5	50	27	230	135	1714	JUN.
JUL.	35	544	65	918	8	74	32	345	140	1882	JUL.
AUG.	5	74	56	1009	23	189	14	96	98	1368	AUG.
SEP.	46	903	34	405	50	275	80	777	210	2359	SEP.
OCT.	65	1017	91	1294	57	464	51	588	264	3362	OCT.
NOV.	46	719	53	769	16	149	11	142	126	1779	NOV.
DEC.	54	867	20	215	4	17			78	1099	DEC.
TOTAL	484	7573	643	8224	204	1524	243	2360	1574	19681	TOTAL

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

YEAR	GEAR				YEAR
	OT		GNS		
	DAYS	HOURS	DAYS	NETS	
2010	1574	19681			2010
2009	1514	18507			2009
2008	1163	14247			2008
2007	1233	14455			2007
2006	1485	19666			2006
2005	1476	15744			2005
2004	1705	18856			2004
2003	2312	25175			2003
2002	1882	19902			2002
2001	1870	24979			2001
2000	1411	14588			2000
1999	1631	19234			1999
1998	1172	16517			1998
1997	1428				1997
1996	1912	27206	166		1996
1995	1425	19083	612	173833	1995
1994	1553	22065	676	166735	1994
1993	2496	32481	731	209536	1993
1992	2670	32662	672	266141	1992
1991	5297	74829	712	302407	1991
1990	5026	72536	714	238732	1990
1989	3850	54833	692	268885	1989

TABLE III: Portuguese trawl fishery cpue's and bycatch by month and division for 2010.

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	COD	MAR	290	520	9.144	RED	7.8	0.0	8.6
3M	COD	APR	238	510	3.157	RED	0.7	0.0	1.0
3M	COD	MAY	272	482	1.563	RED	17.7	0.0	19.8
3M	COD	JUN	271	488	1.659	RED	37.5	0.0	39.4
3M	COD	JUL	337	386	0.956	RED	41.5	0.0	42.1
3M	COD	OCT	279	366	0.492	RED	56.0	0.0	58.3
3M	COD	NOV	221	431	0.507	RED	15.5	1.5	18.5
3M	COD	DEC	238	491	0.799	RED	3.1	0.4	5.5
3L	RED	NOV	404	458	1.425	-	0.0	0.0	0.0
3M	RED	MAR	277	520	0.521	COD	17.0	0.0	19.4
3M	RED	APR	300	822	0.098	GHL	36.2	0.5	53.9
3M	RED	MAY	256	527	2.939	COD	9.1	0.0	10.4
3M	RED	JUN	217	538	1.458	COD	16.5	0.0	18.9
3M	RED	JUL	274	420	1.773	COD	23.9	0.0	24.8
3M	RED	SEP	268	424	1.816	COD	18.2	0.0	19.7
3M	RED	OCT	261	496	0.669	COD	37.2	0.0	39.9
3M	RED	NOV	264	419	0.215	COD	30.2	3.2	35.5
3M	RED	DEC	289	300	0.056	COD	54.2	5.2	63.8
3N	RED	FEB	286	670	12.606	COD	1.6	0.0	3.5
3N	RED	APR	30	551	12.933	COD	4.2	0.0	4.8
3N	RED	JUL	280	331	3.523	HAL	0.6	0.0	0.6
3N	RED	OCT	273	482	4.369	COD	4.1	0.3	5.9
3N	RED	NOV	259	527	2.508	COD	1.1	0.2	3.5
3O	RED	FEB	367	494	3.488	-	0.0	0.0	0.0
3O	RED	MAR	127	480	1.064	WIT	24.8	24.8	54.6
3O	RED	APR	341	446	1.463	WIT	26.1	26.1	67.5
3O	RED	JUL	359	371	0.377	WIT	10.0	10.0	19.9
3O	RED	OCT	47	500	0.680	GHL	3.6	1.1	10.6
3O	RED	NOV	140	504	1.090	COD	2.1	1.2	10.2
3L	GHL	MAR	130	1460	0.468	RHG	8.0	0.5	9.8
3L	GHL	APR	802	1379	0.469	RHG	2.4	1.1	7.0
3L	GHL	SEP	886	1520	0.466	RHG	11.1	0.0	13.1
3L	GHL	OCT	1165	1473	0.464	RHG	18.9	0.0	20.5
3L	GHL	NOV	886	1409	0.308	RHG	8.5	0.0	9.5
3L	GHL	DEC	804	1050	0.355	RHG	5.1	0.1	5.6
3M	GHL	MAR	748	1112	0.485	SKA	7.0	0.5	10.9
3M	GHL	APR	759	1157	0.437	SKA	6.9	0.3	13.0
3N	GHL	MAR	910	1000	0.255	WIT	12.8	12.8	20.1
3N	GHL	NOV	325	335	0.079	COD	20.0	15.2	62.6
3O	GHL	OCT	415	459	0.063	RED	47.3	0.4	56.0
3L	SKA	APR	862	892	0.063	GHL	49.4	6.9	64.7
3N	SKA	JUL	49	78	0.241	PLA	38.3	0.0	43.1
3N	SKA	OCT	51	69	0.093	COD	9.7	0.0	17.3
3N	SKA	NOV	48	335	0.065	COD	37.2	4.7	71.4
3O	SKA	MAR	127	140	0.507	RED	29.8	29.1	80.9
3O	SKA	OCT	130	179	0.569	PLA	5.3	1.8	9.9
3O	SKA	NOV	66	166	0.460	PLA	10.1	1.8	14.5

TABLE IV - A: GREENLAND HALIBUT TRAWL CATCH RATES, 1988-2010: mean annual cpue's corrected for the month, division and vessel of each observation.

	3L			3M			3N			3LMN			
	CPUE	ST.ERROR	C.V.	CPUE	ST.ERROR	C.V.	CPUE	ST.ERROR	C.V.	CPUE	ST.ERROR	C.V.	
1988	0.450	0.092	40.8							0.416	0.096	46.2	1988
1989	0.431	0.073	51.0							0.394	0.073	55.8	1989
1990	0.379	0.039	35.2	0.156			0.158			0.324	0.037	43.0	1990
1991	0.229	0.048	46.8				0.120	0.030	43.8	0.181	0.036	55.8	1991
1992	0.165	0.030	57.6				0.256	0.031	42.5	0.239	0.031	62.6	1992
1993	0.109	0.006	7.4				0.171	0.019	37.5	0.214	0.024	42.8	1993
1994	0.091	0.003	4.7				0.112	0.014	30.4	0.140	0.029	58.0	1994
1995	0.145	0.019	37.7	0.185	0.019	22.7	0.135	0.022	42.5	0.158	0.016	44.3	1995
1996	0.193	0.018	32.8	0.198	0.025	38.0	0.164	0.019	30.9	0.179	0.010	31.2	1996
1997	0.205	0.014	22.1	0.257	0.020	22.2	0.115	0.009	10.4	0.194	0.014	32.8	1997
1998	0.273	0.016	21.6	0.244	0.026	36.5	0.209	0.016	25.4	0.253	0.011	28.4	1998
1999	0.291	0.024	25.5	0.343	0.036	31.2	0.259	0.021	23.8	0.299	0.017	30.4	1999
2000	0.279	0.013	12.2	0.281	0.019	14.9	0.294	0.042	28.7	0.283	0.022	30.6	2000
2001	0.210	0.018	23.1	0.215	0.007	8.6	0.198	0.013	15.1	0.210	0.013	27.1	2001
2002	0.232	0.021	30.4	0.226	0.032	47.5	0.262	0.034	25.6	0.228	0.018	40.4	2002
2003	0.224	0.025	34.8	0.217	0.036	46.8	0.206	0.024	28.3	0.223	0.020	43.5	2003
2004	0.115	0.016	41.8	0.095	0.024	76.5	0.134	0.009	19.8	0.135	0.015	60.3	2004
2005	0.299	0.013	6.3	0.313	0.060	27.1				0.281	0.022	15.7	2005
2006	0.449	0.044	23.8	0.261	0.056	36.9				0.351	0.044	37.9	2006
2007	0.651	0.084	31.5	0.394	0.065	33.0				0.520	0.069	41.8	2007
2008	0.443	0.030	16.4	0.420	0.030	14.4				0.409	0.019	14.4	2008
2009	0.712	0.090	37.9	0.627	0.046	20.8				0.647	0.050	32.5	2009
2010	0.322	0.030	26.0	0.195	0.040	28.8				0.239	0.023	30.7	2010

TABLE IV - B: GREENLAND HALIBUT TRAWL CATCH RATES,
1988-2010 mean cpue's by division corrected for the year, month and vessel of each observation.

	CPUE	ST.ERROR	C.V.	
3L	0.299	0.008	37.1	3L
3M	0.271	0.009	35.1	3M
3N	0.194	0.006	31.3	3N
3LMN	0.262	0.005	39.7	3LMN

TABLE V: Intensity of the trawl sampling during 2010, 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	MAR	15	1387	3235	-	-
COD	3M	APR	12	738	1919	84	26-89
COD	3M	MAY	29	1941	4503	207	26-110
COD	3M	JUN	49	5040	9166	128	45-99
COD	3M	JUL	26	2930	5744	-	-
COD	3M	AUG	4	295	695	-	-
COD	3M	SEP	16	1334	3471	100	28-92
COD	3M	OCT	10	845	1840	249	20-111
COD	3M	NOV	9	1242	2958	169	37-84
COD	3M	DEC	12	1906	3221	166	35-95
COD	3N	FEB	6	292	102	-	-
COD	3N	APR	4	262	105	-	-
COD	3N	JUL	2	40	265	-	-
COD	3N	OCT	6	433	701	146	26-111
COD	3N	NOV	3	243	334	-	-
						-	-
COD	3O	FEB	1	18	20		
COD	3O	MAR	3	163	310	-	-
COD	3O	APR	1	91	78	-	-
COD	3O	MAY	3	194	361	65	30-90
COD	3O	JUN	8	480	935	131	30-98
COD	3O	JUL	3	203	136	-	-
COD	3O	SEP	1	67	53	-	-
COD	3O	OCT	2	79	75	-	-
COD	3O	NOV	2	125	128	-	-
REDFISH (*S. mentella*)	3L	MAR	3	305	118	-	-
REDFISH (*S. mentella*)	3L	APR	6	569	254	-	-
REDFISH (*S. mentella*)	3L	NOV	3	434	146	-	-
REDFISH (*S. mentella*)	3M	FEB	1	48	22	-	-
REDFISH (*S. mentella*)	3M	MAR	20	2061	630	-	-
REDFISH (*S. mentella*)	3M	APR	1	98	48	-	-
REDFISH (*S. mentella*)	3M	MAY	9	1254	307	66	22-40
REDFISH (*S. mentella*)	3M	JUN	30	7954	1702	-	-
REDFISH (*S. mentella*)	3M	JUL	26	6587	1321	-	-
REDFISH (*S. mentella*)	3M	SEP	16	3155	817	105	15-41
REDFISH (*S. mentella*)	3M	OCT	5	860	164	-	-
REDFISH (*S. mentella*)	3M	NOV	6	988	356	136	22-40
REDFISH (*S. mentella*)	3N	FEB	7	1356	220	-	-
REDFISH (*S. mentella*)	3N	APR	4	807	141	-	-
REDFISH (*S. mentella*)	3N	JUL	1	259	50	-	-
REDFISH (*S. mentella*)	3N	OCT	5	959	224	116	21-35
REDFISH (*S. mentella*)	3N	NOV	14	2667	782	179	18-42
REDFISH (*S. mentella*)	3O	FEB	2	389	88	-	-
REDFISH (*S. mentella*)	3O	MAR	2	297	35	-	-
REDFISH (*S. mentella*)	3O	APR	1	168	28	-	-
REDFISH (*S. mentella*)	3O	JUN	8	610	141	127	18-31
REDFISH (*S. mentella*)	3O	JUL	4	1092	133	-	-
REDFISH (*S. mentella*)	3O	AUG	5	399	50	-	-
REDFISH (*S. mentella*)	3O	SEP	23	1840	292	140	16-31
REDFISH (*S. mentella*)	3O	OCT	37	4336	920	320	15-34
REDFISH (*S. mentella*)	3O	NOV	10	1594	342	134	18-34

TABLE V: cont.

SPECIES	DIV.	MONTH	Nº OF SAMPLES	Nº FISH MEASURED	SAMPLING WEIGHT(Kg)	OTOLITHS Nº	OTOLITHS LENGTH RANGE (cm)
REDFISH (*S. marinus*)	3L	APR	4	313	106.38	81	25-36
REDFISH (*S. marinus*)	3M	MAR	13	1015	368.82	-	-
REDFISH (*S. marinus*)	3M	APR	16	1212	405.83	25	24-36
REDFISH (*S. marinus*)	3M	MAY	16	1180	414.36	114	20-44
REDFISH (*S. marinus*)	3M	JUN	13	946	320.59	-	-
REDFISH (*S. marinus*)	3M	AUG	4	311	100.45	-	-
REDFISH (*S. marinus*)	3M	OCT	4	317	96.21	165	18-41
REDFISH (*S. marinus*)	3M	NOV	2	311	167.408	125	25-43
REDFISH (*S. marinus*)	3M	DEC	9	1333	861.055	144	20-46
REDFISH (*S. marinus*)	3O	MAR	2	154	62.72	-	-
REDFISH (*S. marinus*)	3O	MAY	3	224	43.36	-	-
AMERICAN PLAICE	3L	APR	2	147	81.1	-	-
AMERICAN PLAICE	3M	OCT	1	83	52.1	82	21-60
AMERICAN PLAICE	3N	FEB	5	340	62.75	-	-
AMERICAN PLAICE	3N	MAY	1	85	58.56	-	-
AMERICAN PLAICE	3N	JUL	2	205	144.15	-	-
AMERICAN PLAICE	3N	OCT	4	258	258.16	212	29-68
AMERICAN PLAICE	3N	NOV	2	379	233.5	-	-
AMERICAN PLAICE	3O	FEB	2	90	39.8	-	-
AMERICAN PLAICE	3O	MAR	3	223	70.1	-	-
AMERICAN PLAICE	3O	APR	1	88	26.15	-	-
AMERICAN PLAICE	3O	MAY	2	155	129.21	59	33-59
AMERICAN PLAICE	3O	JUN	3	224	197.06	58	28-55
AMERICAN PLAICE	3O	JUL	2	135	65.05	-	-
AMERICAN PLAICE	3O	AUG	1	54	39.21	-	-
AMERICAN PLAICE	3O	SEP	4	288	262.76	-	-
AMERICAN PLAICE	3O	OCT	10	1115	950.327	322	24-66
AMERICAN PLAICE	3O	NOV	1	128	105.55	-	-
YELLOWTAIL FLOUNDER	3N	OCT	1	84	54.65	81	28-61
YELLOWTAIL FLOUNDER	3N	NOV	1	53	13.65	-	-
GREENLAND HALIBUT	3L	FEB	2	231	201.2	-	-
GREENLAND HALIBUT	3L	MAR	28	3405	3427.67	-	-
GREENLAND HALIBUT	3L	APR	23	2442	2204.6	146	34-68
GREENLAND HALIBUT	3L	MAY	11	840	765.45	239	34-62
GREENLAND HALIBUT	3L	JUN	1	76	73.3	75	38-61
GREENLAND HALIBUT	3L	SEP	3	280	284.05	-	-
GREENLAND HALIBUT	3L	OCT	23	2602	2973.9	-	-
GREENLAND HALIBUT	3L	NOV	24	3421	3616.379	104	38-64
GREENLAND HALIBUT	3L	DEC	11	1727	1560.07	141	35-64
GREENLAND HALIBUT	3M	FEB	1	111	128.85	-	-
GREENLAND HALIBUT	3M	MAR	26	2826	2925.73	-	-
GREENLAND HALIBUT	3M	APR	15	1372	1290.65	42	41-59
GREENLAND HALIBUT	3M	MAY	2	148	137.2	-	-
GREENLAND HALIBUT	3M	JUN	1	72	57.6	70	37-56
GREENLAND HALIBUT	3M	SEP	1	107	128.7	-	-
GREENLAND HALIBUT	3M	OCT	2	199	169.7	-	-
GREENLAND HALIBUT	3M	NOV	1	100	86.1	-	-

TABLE V: cont.

SPECIES	DIV.	MONTH	Nº OF SAMPLES	Nº FISH MEASURED	SAMPLING WEIGHT(Kg)	OTOLITHS Nº	OTOLITHS LENGTH RANGE (cm)
GREENLAND HALIBUT	3N	MAY	2	160	171.25	81	34-66
GREENLAND HALIBUT	3N	OCT	2	152	155.2	77	39-61
GREENLAND HALIBUT	3N	NOV	5	721	762.294	123	34-66
GREENLAND HALIBUT	3O	FEB	1	60	44.05	-	-
GREENLAND HALIBUT	3O	JUN	1	74	73	-	-
GREENLAND HALIBUT	3O	AUG	1	47	29.85	-	-
GREENLAND HALIBUT	3O	SEP	17	1078	1280.85	256	34-75
GREENLAND HALIBUT	3O	OCT	13	1224	1410.427	331	33-70
GREENLAND HALIBUT	3O	NOV	4	579	591.115	162	34-70
ROUGHHEAD GRENADIER	3L	MAR	8	692	282.66	-	-
ROUGHHEAD GRENADIER	3L	APR	8	600	238.54	184	9.5-29
ROUGHHEAD GRENADIER	3L	MAY	7	526	209.99	196	10-25
ROUGHHEAD GRENADIER	3L	JUN	1	71	25.41	-	-
ROUGHHEAD GRENADIER	3L	SEP	1	81	30.3	-	-
ROUGHHEAD GRENADIER	3L	OCT	3	378	177.2	-	-
ROUGHHEAD GRENADIER	3L	NOV	6	800	408.09	94	13-25
ROUGHHEAD GRENADIER	3L	DEC	10	1467	815.06	130	12-27
ROUGHHEAD GRENADIER	3M	FEB	1	59	29.8	-	-
ROUGHHEAD GRENADIER	3M	MAR	1	67	22.88	-	-
ROUGHHEAD GRENADIER	3M	APR	1	77	25.34	-	-
ROUGHHEAD GRENADIER	3M	MAY	3	239	76.77	-	-
ROUGHHEAD GRENADIER	3M	JUN	1	71	20.75	-	-
ROUGHHEAD GRENADIER	3M	SEP	1	134	60.2	-	-
ROUGHHEAD GRENADIER	3M	NOV	1	137	52.9	-	-
ROUGHHEAD GRENADIER	3N	MAY	1	71	41.82	71	10-27
WITCH FLOUNDER	3L	APR	1	108	40	-	-
WITCH FLOUNDER	3M	NOV	1	145	93.326	-	-
WITCH FLOUNDER	3N	OCT	1	149	83.94	-	-
WITCH FLOUNDER	3N	NOV	1	153	103.578	-	-
WITCH FLOUNDER	3O	FEB	1	112	27.85	-	-
WITCH FLOUNDER	3O	MAR	1	85	17.9	-	-
WITCH FLOUNDER	3O	JUL	1	72	30.5	-	-
WITCH FLOUNDER	3O	OCT	5	623	377.287	-	-
WITCH FLOUNDER	3O	NOV	4	511	294.948	-	-
WHITE HAKE	3O	MAR	2	126	213.9	-	-
WHITE HAKE	3O	JUN	1	55	96.05	-	-
WHITE HAKE	3O	JUL	1	83	83.45	-	-
WHITE HAKE	3O	SEP	3	171	151.05	-	-
WHITE HAKE	3O	OCT	3	174	137.55	-	-

TABLE V: cont.

SPECIES	DIV.	MONTH	Nº OF SAMPLES	Nº FISH MEASURED	SAMPLING WEIGHT(Kg)	OTOLITHS Nº	OTOLITHS LENGTH RANGE (cm)
THORNY SKATE	3L	MAY	1	55	62.2	-	-
THORNY SKATE	3M	MAR	3	187	557.8	-	-
THORNY SKATE	3M	APR	1	73	142.85	-	-
THORNY SKATE	3M	JUN	5	83	248.064	-	-
THORNY SKATE	3M	JUL	2	33	95.79	-	-
THORNY SKATE	3M	SEP	1	17	55.177	-	-
THORNY SKATE	3M	OCT	1	25	91.656	-	-
THORNY SKATE	3N	OCT	2	44	140.882	-	-
THORNY SKATE	3O	MAR	1	77	230.7	-	-
THORNY SKATE	3O	JUN	1	72	92.6	-	-
THORNY SKATE	3O	JUL	1	41	124.413	-	-
THORNY SKATE	3O	SEP	3	217	519.35	-	-
THORNY SKATE	3O	OCT	2	145	320.05	-	-
SPINYTAIL SKATE	3L	OCT	3	33	220.496	-	-
SPINYTAIL SKATE	3L	NOV	2	29	222.262	-	-
SPINYTAIL SKATE	3M	MAR	1	11	78.5	-	-
HADDOCK	3O	SEP	1	71	53.2	-	-

TABLE VI: Length-weight relationship by species, stock and sex in 2010.

Species	Stock	Sex	a	b	n	r^2	Length interval (cm)
COD	3M	T	0.0165	2.8563	7393	0.992	8-112
COD	3NO	T	0.0060	3.0906	1004	0.995	26-111
GHL	2J3KLMNO	F	0.0043	3.1723	6204	0.996	33-75
GHL	2J3KLMNO	M	0.0038	3.2062	5126	0.997	33-70
GHL	2J3KLMNO	T	0.0042	3.1801	11330	0.997	33-75
WIT	2J3KL	F	0.0910	2.4068	78	0.953	28-49
WIT	2J3KL	M	0.0687	2.4792	66	0.960	28-49
WIT	2J3KL	T	0.0709	2.4730	144	0.954	28-49
WIT	3NO	F	0.1263	2.3112	701	0.962	27-51
WIT	3NO	M	0.1164	2.3348	631	0.954	27-51
WIT	3NO	T	0.1220	2.3216	1332	0.958	27-51
PLA	3LNO	F	0.0081	3.0343	1269	0.992	26-71
PLA	3LNO	M	0.0305	2.6928	1090	0.947	18-66
PLA	3LNO	T	0.0252	2.7449	2359	0.959	18-71
PLA	3M	F	0.0015	3.4693	45	0.984	31-60
PLA	3M	M	0.0016	3.4690	38	0.983	21-60
PLA	3M	T	0.0017	3.4457	83	0.986	21-60
YEL	3LNO	F	0.0024	3.3699	43	0.976	29-57
YEL	3LNO	M	0.0027	3.3328	41	0.977	28-61
YEL	3LNO	T	0.0031	3.2911	84	0.984	28-61
RHG	3LMNO	F	0.2289	2.6945	2278	0.987	10-27
RHG	3LMNO	M	0.2327	2.6948	1866	0.993	9.5-29
RHG	3LMNO	T	0.2154	2.7201	4144	0.995	9.5-29
REB	3LN	F	0.0231	2.8428	776	0.985	18-40
REB	3LN	M	0.0207	2.8737	753	0.990	18-42
REB	3LN	T	0.0214	2.8659	1529	0.989	18-42
REB	3M	F	0.0145	2.9946	454	0.988	15-41
REB	3M	M	0.0165	2.9464	398	0.989	20-40
REB	3M	T	0.0145	2.9911	852	0.990	15-41
REB	3O	F	0.0975	2.3950	4125	0.985	15-34
REB	3O	M	0.0461	2.6205	3904	0.968	14-34
REB	3O	T	0.0496	2.5992	8029	0.972	14-34
REG	3LN	F	0.1052	2.3985	185	0.983	22-41
REG	3LN	M	0.1253	2.3464	128	0.981	20-35
REG	3LN	T	0.1269	2.3434	313	0.988	20-41
REG	3M	F	0.0765	2.5206	3527	0.969	17-44
REG	3M	M	0.0764	2.5257	3052	0.972	17-46
REG	3M	T	0.0704	2.5486	6579	0.972	17-46
REG	3O	F	0.0011	3.7105	197	0.989	20-40
REG	3O	M	0.0010	3.7430	142	0.985	19-36
REG	3O	T	0.0013	3.6821	339	0.990	19-40
HKW	3LMNO	T	0.0064	3.0620	426	0.993	34-77
HAD	3LMNO	T	0.0032	3.2411	71	0.993	35-55
RJR	3LMNO	F	0.6055	2.1200	97	0.906	33-76
RJR	3LMNO	M	0.5872	2.1314	118	0.860	37-79
RJR	3LMNO	T	0.1440	2.3896	855	0.911	33-86
RJQ	3LMNO	F	0.0926	2.5426	24	0.975	31-114
RJQ	3LMNO	M	0.1818	2.3994	28	0.913	42-117
RJQ	3LMNO	T	0.1240	2.4816	52	0.948	31-117

TABLE VII: COD, DIV. 3M, 2010: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1st Q.	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
18								5.1						1.6	0.3	18
21								71.3						22.6	4.5	21
24		3.7	0.1					71.5				0.4		22.6	4.7	24
27		7.5	2.0	1.4			1.3	39.5				2.1	0.2	12.5	3.3	27
30	1.6	26.7	4.9	3.4	1.2		1.4	4.2			1.6	5.9	1.2	1.3	2.9	30
33	3.7	49.3	18.7	9.8	4.9	9.2	7.5	16.5	0.3	0.3	3.7	16.0	5.5	5.5	8.6	33
36	4.3	7.9	48.8	26.8	10.5	33.6	6.4	57.9	4.6	0.2	4.3	32.2	10.7	19.3	18.3	36
39	27.0	5.5	84.6	67.2	23.7	34.7	17.1	78.0	42.6	21.3	27.0	67.5	23.1	43.6	43.0	39
42	63.6	11.0	76.2	93.4	64.3	30.9	67.6	91.3	49.9	68.8	63.6	81.0	63.5	72.1	71.1	42
45	52.8	38.4	74.7	122.0	105.5	50.2	79.8	61.9	17.8	38.0	52.8	99.8	99.6	41.5	78.4	45
48	82.9	36.4	109.3	141.7	135.5	90.5	110.1	67.3	8.8	85.0	82.9	122.5	130.0	64.0	104.5	48
51	92.3	27.1	167.2	133.5	194.1	76.3	146.0	52.7	53.5	126.0	92.3	135.3	182.5	88.2	129.1	51
54	150.3	34.9	150.4	146.9	162.9	101.7	170.1	60.2	130.3	101.3	150.3	138.6	161.7	94.2	138.0	54
57	127.7	41.8	50.3	75.1	81.5	67.7	85.2	61.0	109.4	139.8	127.7	64.4	81.5	108.7	90.7	57
60	112.1	46.0	52.8	50.4	54.3	96.5	49.4	50.9	98.4	176.9	112.1	50.8	55.1	121.2	78.7	60
63	93.1	60.4	46.0	33.3	41.8	87.1	37.1	41.3	137.6	146.7	93.1	39.6	42.8	111.5	65.9	63
66	47.4	101.3	32.0	25.4	33.7	93.5	33.4	37.4	118.3	45.6	47.4	33.9	35.8	57.7	42.0	66
69	41.3	92.0	21.6	19.6	24.7	48.1	25.4	25.6	113.2	40.7	41.3	26.3	25.7	50.6	34.1	69
72	30.0	74.9	23.2	21.5	26.0	56.7	25.5	26.0	52.6	4.3	30.0	26.5	27.0	21.0	26.2	72
75	15.5	68.9	19.9	15.3	17.2	54.3	33.8	24.3	13.0	0.7	15.5	21.3	21.1	10.7	17.9	75
78	21.7	28.0	8.4	6.3	10.6	6.1	30.1	15.9	4.9		21.7	8.8	13.4	6.0	12.1	78
81	12.2	30.0	3.2	3.3	5.8	28.3	20.5	14.6	41.6	0.4	12.2	5.5	8.8	13.2	9.3	81
84	11.4	65.4	2.6	1.1	1.3	9.3	18.9	2.5	0.7	1.7	11.4	7.0	4.2	1.7	6.1	84
87	4.8	33.5	1.2	0.9	0.3	9.3	17.5	8.9	1.9	0.3	4.8	3.7	3.2	3.3	3.7	87
90	3.3	56.7	1.0	0.9	0.3	1.7	10.9	1.6	0.3	0.5	3.3	5.6	2.0	0.8	3.2	90
93	0.03	12.4	0.2	0.3		1.7	1.4	3.4	0.3	1.5	0.03	1.3	0.3	1.9	0.9	93
96	1.0	2.1	0.1	0.2		4.3	2.0	2.7			1.0	0.3	0.5	0.9	0.6	96
99	0.1	11.8	0.2	0.3		5.4	1.1	1.0			0.1	1.2	0.4	0.3	0.6	99
102	0.01	14.8	0.2	0.1			0.6	1.0			0.01	1.3	0.1	0.3	0.5	102
105		3.7	0.1			2.7		1.9				0.4	0.1	0.6	0.3	105
108		7.3	0.2	0.1				1.2				0.7		0.4	0.3	108
111	0.01	0.5						1.2			0.01	0.04		0.4	0.1	111
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	15	12	29	49	26	4	16	10	9	12	15	90	46	31	182	
SAMPLING WEIGHT(kg)	3235	1919	4503	9166	5744	695	3471	1840	2958	3221	3235	15588	9910	8019	36751	
No. F.MEASURED	1387	738	1941	5040	2930	295	1334	845	1242	1906	1387	7719	4559	3993	17658	
MEAN LENGTH(cm)	58.4	67.9	52.9	52.7	54.7	60.3	58.1	49.3	61.6	57.3	58.4	54.1	55.5	55.7	55.6	
MEAN WEIGHT (g)	1987	3323	1534	1492	1635	2257	2044	1519	2288	1823	1987	1659	1720	1821	1775	
DEPTH RANGE (m)	295/520	238/819	263/434	238/488	258/400	271/302	266/391	212/496	230/431	238/489	295/520	238/819	258/400	212/496	212/819	

TABLE VII-B: COD, DIV. 3M, 2010: Age length key.

LENGTH	AGES													LENGTH
GROUP	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL	GROUP
18	1												1	18
21	18												18	21
24	15	2											17	24
27	8	3											11	27
30		9											9	30
33		29											29	33
36		22											22	36
39		31	3										34	39
42		31	15										46	42
45		13	38	3									54	45
48		1	47	9									57	48
51			33	27									60	51
54			25	52	3								80	54
57			15	59	8	1							83	57
60			3	47	24	1							75	60
63			1	31	39	2							73	63
66				21	47	10							78	66
69				6	49	12							67	69
72				2	35	20							57	72
75					26	25	1						52	75
78					2	30	1						33	78
81					3	16		1					20	81
84						15		1					16	84
87						11		1			1		13	87
90						4		4		1			9	90
93						4		1					5	93
96								1					1	96
99								2				1	3	99
102									1	1			2	102
105									1	1		1	3	105
108									1	1			2	108
111									1				1	111
TOTAL	42	141	180	257	236	149	11	4	4	4	1	2	1031	

TABLE VII-C: COD, DIV. 3M, 2010: age composition (0/000), mean length (cm) and mean weigth (kg) at age, of the 130mm trawl catches.

AGE	1st Q.			2nd Q.			3rd Q.			4th Q.			YEAR			AGE
GROUP	‰	MEAN LENGTH	MEAN WEIGHT	‰	MEAN LENGTH	MEAN WEIGHT	‰	MEAN LENGTH	MEAN WEIGHT	‰	MEAN LENGTH	MEAN WEIGHT	‰	MEAN LENGTH	MEAN WEIGHT	GROUP
1										59.3	24.3	0.154	11.9	24.3	0.154	1
2	9.6	34.8	0.423	56.5	35.1	0.435	39.9	38.1	0.546	153.8	41.5	0.703	62.2	38.8	0.586	2
3	207.2	45.5	0.910	339.5	45.1	0.893	349.6	48.0	1.064	276.2	52.4	1.367	302.2	47.4	1.034	3
4	438.7	56.0	1.647	387.0	54.3	1.512	361.4	54.4	1.513	313.6	60.9	2.089	376.3	55.8	1.641	4
5	234.7	65.1	2.551	138.0	66.1	2.666	170.5	63.8	2.398	153.9	66.7	2.712	169.4	65.3	2.572	5
6	103.8	74.4	3.778	70.5	75.2	3.902	75.5	76.9	4.064	37.9	79.3	4.469	72.1	75.9	3.969	6
7	1.0	79.0	4.346	0.4	79.0	4.346				0.5	76.0	3.891	0.4	78.3	4.236	7
8	4.4	88.6	6.106	4.6	91.9	6.771	2.5	92.2	6.766	2.3	93.1	6.982	3.6	91.3	6.628	8
9	0.02	106.6	10.263	2.1	105.2	9.870	0.05	106.0	10.063	0.7	109.3	11.017	0.9	105.9	10.059	9
10	0.6	91.0	6.508	1.3	95.1	7.487	0.1	103.0	9.271	0.7	106.3	10.177	0.7	96.9	7.909	10
11										0.6	88.0	5.914	0.1	88.0	5.914	11
12							0.4	100.7	8.705	0.6	103.0	9.292	0.2	101.9	9.018	12
TOTAL	1000			1000			1000			1000			1000			

TABLE VIII-A: COD, DIV. 3N, 2010: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	APR	OCT	NOV	1st Q.	2nd Q.	4th Q.	YEAR	LENGTH GROUP
18	6.6				6.6			1.7	18
21	69.2	8.0			69.2	8.0		20.1	21
24	190.6	47.3	8.0		190.6	47.3	2.7	64.1	24
27	259.6	277.1		53.3	259.6	277.1	35.5	166.0	27
30	212.9	354.0		133.3	212.9	354.0	88.7	200.9	30
33	145.7	189.9	6.3	186.7	145.7	189.9	126.3	150.6	33
36	57.8	57.9	37.4	106.7	57.8	57.9	83.5	69.2	36
39	21.2	46.5	69.5	320.0	21.2	46.5	236.1	123.7	39
42	20.9	12.7	120.4	160.0	20.9	12.7	146.8	74.0	42
45	6.3	3.4	115.2	40.0	6.3	3.4	65.2	31.4	45
48	3.0	3.4	111.2		3.0	3.4	37.2	18.2	48
51	6.1		93.9		6.1		31.4	15.4	51
54			32.0				10.7	4.7	54
57			14.4				4.8	2.1	57
60			101.1				33.9	14.9	60
63			77.5				25.9	11.4	63
66			84.2				28.2	12.4	66
69			68.8				23.0	10.2	69
72			49.8				16.7	7.4	72
75			1.8				0.6	0.3	75
78			0.6				0.2	0.1	78
81									81
84									84
87									87
90									90
93									93
96									96
99									99
102									102
105									105
108									108
111			8.0				2.7	1.2	111
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	6	4	5	1	6	4	6	16	
SAMPLING WEIGHT(kg)	102	105	606	42	102	105	648	855	
No. F.MEASURED	292	262	418	75	292	262	493	1047	
MEAN LENGTH(cm)	30.4	31.9	54.8	37.9	30.4	31.9	43.6	36.7	
MEAN WEIGHT (g)	252	280	1655	476	252	280	871	534	
DEPTH RANGE (m)	307/461	339/551	48/393	298/312	307/461	339/551	48/393	48/551	

TABLE VIII-B: COD, DIV. 3N, 2010: length composition (0/000) of the 280mm trawl catches.

LENGTH GROUP	JUL	OCT	NOV	3rd Q.	4th Q.	YEAR	LENGTH GROUP
24			73.4		73.3	73.2	24
27			110.1		110.0	109.7	27
30			212.9		212.6	212.2	30
33			271.6		271.3	270.7	33
36			190.8		190.6	190.2	36
39			102.8		102.7	102.4	39
42			22.0		22.0	21.9	42
45			14.7		14.7	14.6	45
48							48
51							51
54							54
57							57
60	50.0		0.1	50.0	0.1	0.2	60
63							63
66	75.0	66.7	0.2	75.0	0.2	0.4	66
69	25.0	200.0	0.1	25.0	0.3	0.3	69
72	100.0	133.3	0.2	100.0	0.3	0.5	72
75	175.0	133.3	0.1	175.0	0.2	0.6	75
78	125.0		0.1	125.0	0.1	0.4	78
81	75.0	133.3	0.3	75.0	0.5	0.6	81
84	25.0	133.3	0.2	25.0	0.3	0.4	84
87	75.0	133.3	0.2	75.0	0.3	0.5	87
90	75.0		0.1	75.0	0.1	0.3	90
93	50.0	66.7	0.1	50.0	0.2	0.3	93
96	25.0		0.1	25.0	0.1	0.2	96
99	100.0		0.1	100.0	0.1	0.3	99
102	25.0		0.1	25.0	0.1	0.1	102
TOTAL	1000	1000	1000	1000	1000	1000	
No. SAMPLES	2	1	2	2	3	5	
SAMPLING WEIGHT(kg)	265	95	292	265	387	651	
No. F.MEASURED	40	15	168	40	183	223	
MEAN LENGTH(cm)	82.2	79.1	34.2	82.2	34.2	34.3	
MEAN WEIGHT (g)	5245	4541	354	5245	359	369	
DEPTH RANGE (m)	49/78	57/69	86/105	49/78	57/105	49/105	

TABLE IX: COD, DIV. 3O, 2010: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	MAR	APR	MAY	JUN	JUL	SEP	OCT	NOV	1st Q.	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
24						8.0						7.2		1.5	24
27			22.0	2.8	5.5	8.9					11.7	8.0		4.5	27
30		32.7	33.0	45.8	10.1	50.5		17.1	21.9	32.3	25.6	45.5	21.2	30.8	30
33	55.6	48.0	98.9	92.0	6.6	107.3		100.4	49.4	48.1	58.9	96.8	57.0	63.0	33
36	222.2	112.2	87.9	28.3	15.8	218.1	44.8	178.0	142.8	113.5	47.1	201.1	148.0	123.8	36
39	111.1	368.6	296.7	18.7	35.1	363.3	179.1	227.1	171.7	365.5	137.8	345.2	180.0	262.2	39
42	166.7	193.9	142.9	54.1	46.3	149.9	223.9	230.1	283.4	193.6	86.7	157.2	275.5	179.2	42
45	166.7	66.8	109.9	110.5	77.4	59.4	194.0	89.0	100.7	68.0	96.3	72.6	98.9	83.1	45
48		52.6	87.9	120.7	94.1	21.3	238.8	37.3	49.4	52.0	96.3	42.6	47.6	59.8	48
51	55.6	20.2	65.9	51.8	78.6	6.7	104.5		100.5	20.6	68.8	16.2	85.5	46.7	51
54		51.1	11.0	43.9	103.0	6.7	14.9		58.4	50.5	55.5	7.5	49.7	42.5	54
57	111.1	16.8	33.0	51.4	90.3			20.2	21.9	17.9	60.3		21.6	25.4	57
60	111.1	3.3	11.0	80.0	61.8			60.5		4.6	44.5		9.0	14.4	60
63		5.5		69.7	104.6			40.3		5.4	56.2		6.0	16.8	63
66		5.5		49.2	74.2					5.4	39.9			11.4	66
69		1.6		33.2	67.4					1.6	34.2			8.8	69
72				41.0	43.5						25.5			6.2	72
75		3.9		17.6	24.2					3.9	13.3			4.4	75
78		3.9		20.3	16.5					3.9	10.5			3.8	78
81		2.4		38.4	18.2					2.3	14.4			4.2	81
84		4.7		10.2	5.3					4.7	4.0			2.4	84
87				10.2	2.1						2.7			0.7	87
90		3.1		10.2	2.2					3.1	2.7			1.6	90
93					10.7						4.5			1.1	93
96		1.6			6.5					1.6	2.7			1.1	96
99		0.8								0.8				0.2	99
102		0.8								0.8				0.2	102
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	3	1	3	8	3	1	2	2	4	12	4	4	24	
SAMPLING WEIGHT(k	20	310	78	361	935	136	53	75	128	330	1374	188	204	2095	
No. F.MEASURED	18	163	91	194	480	203	67	79	125	181	765	270	204	1420	
MEAN LENGTH(cm)	46.0	43.7	42.7	55.1	58.8	39.7	45.8	43.4	44.0	43.7	51.7	40.3	43.9	45.0	
MEAN WEIGHT (g)	920	814	709	1787	2016	544	837	767	761	815	1449	572	762	906	
DEPTH RANGE (m)	478/544	336/479	341/446	185/389	158/461	231/456	190/196	311/498	381/504	336/544	158/461	190/456	311/504	158/544	

TABLE X: REDFISH (*S. mentella*), DIV. 3L, 2010: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	MAR	APR	NOV	1st Q.	2nd Q.	4th Q.	YEAR	LENGTH GROUP
14			2.9			2.9	2.3	14
15			7.3			7.3	5.9	15
16	2.8		9.8	2.8		9.8	8.1	16
17			13.1			13.1	10.5	17
18	8.5		17.0	8.5		17.0	14.2	18
19	12.0		27.3	12.0		27.3	22.8	19
20	42.2	1.4	30.6	42.2	1.4	30.6	27.7	20
21	37.2	1.4	58.3	37.2	1.4	58.3	49.7	21
22	38.3	5.6	80.9	38.3	5.6	80.9	68.5	22
23	55.7	14.1	107.6	55.7	14.1	107.6	92.2	23
24	28.3	16.5	77.5	28.3	16.5	77.5	66.4	24
25	54.8	19.2	50.6	54.8	19.2	50.6	46.9	25
26	43.4	51.5	54.6	43.4	51.5	54.6	53.5	26
27	55.4	62.4	63.3	55.4	62.4	63.3	62.6	27
28	72.3	130.7	89.4	72.3	130.7	89.4	93.5	28
29	79.7	106.2	40.8	79.7	106.2	40.8	51.8	29
30	130.4	128.1	77.4	130.4	128.1	77.4	87.4	30
31	63.2	112.2	36.8	63.2	112.2	36.8	48.2	31
32	88.4	148.9	46.2	88.4	148.9	46.2	62.1	32
33	48.9	77.0	33.5	48.9	77.0	33.5	40.1	33
34	45.3	45.0	17.9	45.3	45.0	17.9	23.2	34
35	20.5	29.9	15.4	20.5	29.9	15.4	17.6	35
36	26.4	24.4	14.4	26.4	24.4	14.4	16.5	36
37	7.4	11.1	11.0	7.4	11.1	11.0	10.7	37
38	28.2	10.6	6.5	28.2	10.6	6.5	8.5	38
39	7.2	0.5	4.4	7.2	0.5	4.4	4.1	39
40		1.4	5.4		1.4	5.4	4.5	40
41	3.7	1.8		3.7	1.8		0.5	41
TOTAL	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	3	6	3	3	6	3	12	
SAMPLING WEIGHT(kg)	118	254	146	118	254	146	517	
No. F.MEASURED	305	569	434	305	569	434	1308	
MEAN LENGTH(cm)	29.0	30.7	26.6	29.0	30.7	26.6	27.3	
MEAN WEIGHT (g)	354	400	284	354	400	284	304	
DEPTH RANGE (m)	863/935	873/965	404/458	863/935	873/965	404/458	404/965	

TABLE XI: REDFISH (*S. mentella), DIV. 3*M, 2010: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	MAR	APR	MAY	JUN	JUL	SEP	OCT	NOV	1st Q.	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
11						0.4						0.2		0.1	11
12				1.7	0.2	0.2	0.6	2.8	1.0		0.5	0.3	2.4	0.4	12
13		2.3		1.6	1.4	1.4	0.6	3.7	2.6	2.3	1.4	1.1	3.5	1.3	13
14		4.5		4.6	4.3	4.8	5.0	9.0	3.8	4.5	4.4	4.8	8.1	4.7	14
15		10.0		16.4	11.9	11.0	10.1	19.5	7.4	10.0	12.8	10.7	17.3	11.7	15
16		14.4		15.5	19.6	14.1	15.3	17.6	8.3	14.4	18.8	14.5	15.9	16.3	16
17		26.1		24.5	26.5	21.2	18.9	26.7	7.3	26.1	26.1	20.5	23.2	22.9	17
18		24.6		34.1	35.8	29.4	28.9	42.7	22.9	24.5	35.4	29.2	39.1	31.9	18
19		46.6		44.1	44.2	46.5	34.3	57.3	15.9	46.5	44.2	42.7	49.7	43.5	19
20		69.3		43.5	74.2	84.6	65.7	84.8	24.5	69.2	68.3	78.8	73.8	74.2	20
21		86.0		96.1	107.1	115.1	97.1	113.5	47.3	85.8	105.0	109.5	101.4	107.2	21
22		145.3	10.2	131.4	165.5	206.0	147.7	200.0	81.4	145.0	158.9	187.9	178.3	175.2	22
23		117.1		121.5	136.6	185.1	134.3	153.9	56.2	116.9	133.7	169.4	136.1	153.3	23
24	20.8	90.8	10.2	87.9	84.8	71.7	56.9	56.6	35.1	90.7	85.4	67.2	52.7	74.7	24
25		65.0		78.4	53.6	36.1	49.3	36.0	38.3	64.9	58.4	40.2	36.4	47.9	25
26	62.5	59.3	20.4	66.0	43.2	25.9	36.5	29.5	64.3	59.3	47.6	29.2	35.8	37.3	26
27	41.7	47.8	20.4	54.8	31.6	26.5	39.1	31.9	69.6	47.8	36.0	30.4	38.8	33.1	27
28	41.7	40.2	30.6	44.2	35.7	23.9	42.5	25.4	78.8	40.2	37.3	29.6	35.2	33.0	28
29	62.5	39.5	112.2	39.7	26.6	22.1	43.1	20.5	60.3	39.6	29.1	28.6	27.8	29.0	29
30	166.7	33.6	244.9	30.2	29.8	21.8	35.5	18.6	87.2	33.9	29.9	26.1	31.1	27.8	30
31	270.8	26.1	112.2	23.4	19.9	15.4	31.6	15.8	75.1	26.6	20.6	20.4	26.6	20.7	31
32	104.2	16.8	142.9	12.1	16.1	11.6	27.7	10.4	85.6	16.9	15.4	16.5	24.1	16.2	32
33	62.5	14.4	102.0	13.5	12.0	9.4	28.1	7.3	55.0	14.5	12.3	15.2	16.0	14.0	33
34	83.3	10.2	40.8	9.7	7.2	5.9	13.0	7.3	15.7	10.3	7.7	8.1	8.8	8.0	34
35	20.8	4.4	40.8	0.9	4.8	5.3	16.5	1.6	10.1	4.5	4.1	8.8	3.2	6.7	35
36	20.8	2.2	20.4	3.0	3.7	2.4	11.1	4.3	4.6	2.3	3.6	5.1	4.3	4.4	36
37		1.3	40.8	0.7	2.0	1.4	7.8	1.6	15.1	1.3	1.7	3.4	4.1	2.7	37
38	20.8	0.9	30.6	0.3	1.5	0.8	2.6	1.6	10.7	1.0	1.3	1.4	3.3	1.4	38
39	20.8	0.4					0.2		10.2	0.5		0.1	1.9	0.1	39
40		0.5	10.2	0.2	0.3	0.1	0.2		5.4	0.5	0.2	0.1	1.0	0.2	40
41		0.1	10.2							0.1	0.001			0.002	41
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	20	1	9	30	26	16	5	6	21	40	42	11	114	
SAMPLING WEIGHT(kg)	22	630	48	307	1702	1321	817	164	356	652	2057	2138	520	5368	
No. F.MEASURED	48	2061	98	1254	7954	6587	3155	860	988	2109	9306	9742	1848	23005	
MEAN LENGTH(cm)	31.4	24.3	32.0	24.2	23.8	23.3	24.9	23.0	27.7	24.3	23.8	23.8	23.9	23.8	
MEAN WEIGHT (g)	444	220	470	217	207	194	242	188	328	221	209	209	213	209	
DEPTH RANGE (m)	943/1062	109/1120	974/1091	263/830	235/483	280/396	268/387	267/390	251/419	109/1120	235/1091	268/396	251/419	109/1120	

TABLE XII: REDFISH (*S. mentella*), DIV. 3N, 2010: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	APR	JUL	OCT	NOV	1st Q.	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
11		2.6		1.1	0.6		2.6		0.7	0.8	11
12	2.5			2.1	2.6	2.5			2.4	1.9	12
13	2.5	4.1	7.7	2.2	3.2	2.5	4.1	7.7	3.0	3.1	13
14	6.5	15.3	3.9	12.9	8.1	6.5	15.3	3.9	9.5	9.5	14
15	12.3	24.9	15.4	23.6	12.8	12.3	24.9	15.4	16.0	16.4	15
16	31.3	38.2	46.3	40.0	19.5	31.3	38.2	46.3	25.4	31.1	16
17	53.6	60.9	27.0	35.7	26.0	53.6	60.9	27.0	28.8	46.8	17
18	62.9	75.2	46.3	52.0	29.1	62.9	75.2	46.3	35.8	56.5	18
19	83.9	104.2	69.5	61.4	47.0	83.9	104.2	69.5	51.2	77.5	19
20	105.1	102.5	61.8	64.3	63.7	105.1	102.5	61.8	63.9	90.5	20
21	146.8	111.8	123.6	112.5	107.6	146.8	111.8	123.6	109.0	126.3	21
22	188.5	147.4	169.9	179.7	177.9	188.5	147.4	169.9	178.4	175.7	22
23	112.0	104.6	146.7	148.7	134.8	112.0	104.6	146.7	138.8	119.5	23
24	60.4	66.2	92.7	54.7	46.8	60.4	66.2	92.7	49.1	58.3	24
25	35.5	40.7	30.9	42.2	34.4	35.5	40.7	30.9	36.7	37.0	25
26	26.3	39.0	15.4	34.0	43.0	26.3	39.0	15.4	40.4	33.7	26
27	17.4	23.9	30.9	27.8	29.7	17.4	23.9	30.9	29.1	22.9	27
28	20.1	15.5	27.0	28.4	26.6	20.1	15.5	27.0	27.1	21.4	28
29	17.9	9.6	7.7	31.4	29.4	17.9	9.6	7.7	29.9	19.9	29
30	7.4	7.1	27.0	13.6	30.9	7.4	7.1	27.0	25.9	13.6	30
31	3.0	0.5	11.6	11.0	27.3	3.0	0.5	11.6	22.6	9.0	31
32	2.0	4.5	7.7	11.0	19.9	2.0	4.5	7.7	17.3	7.6	32
33	1.6	1.0		4.5	23.1	1.6	1.0		17.7	6.8	33
34			11.6	1.5	17.7			11.6	13.0	4.4	34
35	0.5	0.2	11.6	2.4	14.1	0.5	0.2	11.6	10.7	3.9	35
36			3.9		11.2			3.9	7.9	2.7	36
37					7.0				5.0	1.6	37
38			3.9	1.1	2.4			3.9	2.0	0.7	38
39					1.5				1.1	0.4	39
40					1.7				1.2	0.4	40
41					0.2				0.1	0.04	41
42					0.2				0.1	0.04	42
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	7	4	1	5	14	7	4	1	19	31	
SAMPLING WEIGHT(kg)	220	141	50	224	782	220	141	50	1006	1417	
No. F.MEASURED	1356	807	259	959	2667	1356	807	259	3626	6048	
MEAN LENGTH(cm)	21.9	21.6	22.9	22.6	24.3	21.9	21.6	22.9	23.8	22.5	
MEAN WEIGHT (g)	157	152	184	176	222	157	152	184	209	173	
DEPTH RANGE (m)	307/461	339/551	280/331	273/393	260/509	307/461	339/551	280/331	260/509	260/551	

TABLE XIII-A: REDFISH (*S. mentella*), DIV. 3O, 2010: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	MAR	APR	JUN	JUL	AUG	SEP	OCT	NOV	1st Q.	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
7					1.5							0.3		0.1	7
8					6.0							1.1		0.5	8
9															9
10															10
11			6.0		2.2						0.1	0.4		0.2	11
12		6.1			16.6				0.6	3.8		2.9	0.1	1.6	12
13	4.1	7.8	6.0		19.5			0.04	0.9	6.4	0.1	3.4	0.2	2.0	13
14	4.1	20.1	11.9		35.4		1.0	0.1	1.2	14.1	0.3	7.0	0.3	4.1	14
15	12.2	41.9	23.8		50.2		3.7	0.9	2.7	30.8	0.5	11.5	1.2	7.4	15
16	17.3	29.2	53.6		59.5	29.9	38.6	5.3	2.1	24.7	1.2	41.5	4.7	22.7	16
17	38.6	70.4	35.7		70.6	130.3	91.7	13.7	4.7	58.5	0.8	91.6	12.0	50.5	17
18	71.3	122.9	107.1	12.1	83.6	154.5	116.2	43.9	7.4	103.5	14.3	114.0	36.9	73.0	18
19	54.9	107.2	47.6	34.9	156.0	160.4	144.6	54.3	44.1	87.6	35.2	148.1	52.4	97.1	19
20	108.0	116.6	95.2	72.7	147.3	183.9	160.3	86.2	52.2	113.4	73.2	160.2	79.7	118.9	20
21	162.7	82.0	95.2	106.5	103.8	176.4	135.3	115.0	90.9	112.2	106.3	133.5	110.3	120.9	21
22	128.6	169.6	136.9	99.3	135.6	96.4	95.5	104.0	119.9	154.2	100.2	102.7	107.0	105.7	22
23	129.8	79.8	125.0	124.3	59.3	56.0	77.3	113.8	117.1	98.5	124.3	72.2	114.4	95.1	23
24	89.7	62.5	59.5	101.2	23.3	7.4	47.7	100.6	94.5	72.7	100.3	39.6	99.4	69.5	24
25	45.8	29.6	65.5	98.0	10.1	4.8	42.3	93.6	110.2	35.7	97.3	33.1	96.8	63.5	25
26	23.7	12.3	35.7	104.6	7.5		24.9	85.3	98.7	16.6	103.0	19.5	87.9	54.5	26
27	19.9	19.0	53.6	85.7	6.6		11.9	61.8	87.4	19.3	84.9	9.9	66.7	40.4	27
28	22.0	17.3	11.9	66.5	4.1		3.3	54.3	70.5	19.1	65.2	3.1	57.4	30.9	28
29	12.7			41.6	1.0		2.7	32.3	46.3	4.8	40.6	2.1	35.0	18.8	29
30	23.0	5.6	6.0	37.8			2.2	15.0	42.1	12.1	37.1	1.6	20.2	13.8	30
31	18.2		17.9	14.8	0.1		1.0	15.1	2.9	6.8	14.9	0.7	12.8	7.1	31
32	6.7				0.1			3.7	0.7	2.5		0.0	3.2	1.1	32
33	3.8							0.2	1.2	1.4			0.4	0.2	33
34			6.0					1.1	1.5		0.1		1.1	0.4	34
35	1.0								0.3	0.4			0.1	0.03	35
36	1.0									0.4				0.02	36
37	1.0									0.4				0.02	37
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	2	2	1	8	4	5	23	36	10	4	9	32	46	91	
SAMPLING WEIGHT(kg)	88	35	28	141	133	50	292	890	342	122	169	476	1232	1999	
No. F.MEASURED	389	297	168	610	1092	399	1840	4177	1594	686	778	3331	5771	10566	
MEAN LENGTH(cm)	22.6	20.8	22.0	24.7	19.7	20.1	20.9	23.9	24.7	21.5	24.6	20.7	24.0	22.4	
MEAN WEIGHT (g)	174	142	164	214	124	127	142	198	215	154	213	138	201	171	
DEPTH RANGE (m)	442/544	369/480	341/446	158/422	231/456	279/334	182/530	148/498	332/504	369/544	158/446	182/530	148/504	148/544	

TABLE XIII-B: REDFISH (*S. mentella*), DIV. 3O, 2010: length composition (0/000) of the 280mm trawl catches.

LENGTH GROUP	OCT = YEAR	LENGTH GROUP
19	50.3	19
20	94.3	20
21	75.5	21
22	182.4	22
23	157.2	23
24	163.5	24
25	163.5	25
26	75.5	26
27	6.3	27
28	18.9	28
29	12.6	29
TOTAL	1000	
No. SAMPLES	1	
SAMPLING WEIGHT(kg)	30	
No. F.MEASURED	159	
MEAN LENGTH(cm)	23.6	
MEAN WEIGHT (g)	189	
DEPTH RANGE (m)	235/250	

TABLE XIV: REDFISH (*S. marinus*), DIV. 3L, 2010: lenght composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	APR = YEAR	LENGTH GROUP
20	1.7	20
21		21
22	9.1	22
23	18.1	23
24	21.5	24
25	122.5	25
26	99.6	26
27	110.2	27
28	137.5	28
29	115.2	29
30	122.1	30
31	113.4	31
32	56.4	32
33	30.6	33
34	5.8	34
35	14.8	35
36	3.7	36
37		37
38	7.0	38
39		39
40	5.3	40
41	5.3	41
TOTAL	1000	
No. SAMPLES	4	
SAMPLING WEIGHT(kg)	106	
No. F.MEASURED	313	
MEAN LENGTH(cm)	29.0	
MEAN WEIGHT (g)	345	
DEPTH RANGE (m)	802/997	

TABLE XV: REDFISH (*S. marinus), DIV*. 3M, 2010: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	MAR	APR	MAY	JUN	AUG	OCT	NOV	DEC	1st Q.	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
17	0.1				1.5				0.1		1.5		0.1	17
18					5.8	25.6					5.8	15.9	1.9	18
19	0.4		0.6		7.3	29.3			0.4	0.2	7.3	18.2	2.4	19
20	4.3	0.2	5.4	1.7	20.4	39.0		0.7	4.3	2.7	20.4	24.5	5.9	20
21	0.7	1.2	5.4	5.0	25.8	57.6		2.0	0.7	4.7	25.8	36.4	8.1	21
22	12.9	7.1	16.8	29.3	45.2	48.6			12.9	22.8	45.2	30.3	22.8	22
23	24.8	14.0	32.1	56.0	46.5	57.2		1.7	24.8	43.6	46.5	36.0	40.0	23
24	29.3	41.1	35.8	68.0	47.7	65.3			29.3	54.7	47.7	40.6	49.1	24
25	101.1	106.2	98.3	92.9	126.5	63.4	4.4	1.4	101.1	96.2	126.5	40.3	92.2	25
26	106.7	98.1	105.5	98.3	98.5	65.2	17.5	1.4	106.7	100.5	98.5	42.8	95.4	26
27	108.1	133.4	109.1	94.2	89.5	76.1	17.5	1.4	108.1	103.5	89.5	49.6	98.1	27
28	143.3	137.3	121.1	111.0	113.6	79.8	4.4	1.0	143.3	117.3	113.6	50.4	114.2	28
29	146.5	148.3	108.3	95.9	95.8	76.8	21.9	1.7	146.5	106.0	95.8	50.6	106.1	29
30	93.0	88.8	95.8	85.0	64.2	75.6	117.8	32.5	93.0	88.9	64.2	68.6	86.5	30
31	114.8	112.4	87.6	93.7	76.0	69.2	98.3	50.8	114.8	94.0	76.0	67.4	93.8	31
32	40.9	31.9	47.5	53.1	30.9	77.1	151.4	80.1	40.9	48.8	30.9	86.0	50.8	32
33	22.7	25.0	47.4	57.6	45.5	19.4	143.0	93.2	22.7	50.5	45.5	52.7	46.3	33
34	16.5	15.8	29.6	23.2	15.9	15.0	119.4	107.9	16.5	24.3	15.9	51.3	25.6	34
35	6.5	11.3	24.8	12.9	11.4	21.0	65.2	109.6	6.5	16.4	11.4	49.7	18.2	35
36	14.0	12.8	14.5	12.7	13.8	17.8	58.9	117.1	14.0	13.3	13.8	49.0	17.1	36
37	3.0	1.8	8.8	0.8	6.3	10.5	63.6	109.4	3.0	3.4	6.3	42.9	7.6	37
38	6.7	12.0	3.5	7.1	6.9		42.4	102.1	6.7	6.6	6.9	32.1	9.3	38
39	2.8	0.3	1.4	1.0		4.5	37.3	86.1	2.8	1.1		30.0	4.3	39
40	0.3	0.4	0.1	0.4	5.1		10.8	48.5	0.3	0.3	5.1	14.3	1.9	40
41	0.1	0.6		0.4		6.0	17.5	36.1	0.1	0.3		15.4	1.8	41
42	0.3						4.4	11.5	0.3			3.6	0.4	42
43							4.4	2.2				1.1	0.1	43
44			0.5					0.8		0.2		0.2	0.1	44
45														45
46								0.7				0.2	0.02	46
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	13	16	16	13	4	4	2	9	13	45	4	15	77	
SAMPLING WEIGHT(kg)	369	406	414	321	100	96	167	861	369	1141	100	1125	2735	
No. F.MEASURED	1015	1212	1180	946	311	317	311	1333	1015	3338	311	1961	6625	
MEAN LENGTH(cm)	28.9	28.9	29.0	28.6	27.9	27.5	33.8	36.0	28.9	28.8	27.9	30.5	28.9	
MEAN WEIGHT (g)	377	378	383	372	354	345	563	658	377	377	354	453	384	
DEPTH RANGE (m)	282/833	308/1006	303/409	238/380	271/302	220/378	280/300	238/491	282/833	238/1006	271/302	220/491	220/1006	

TABLE XVI : REDFISH (*S. marinus*), DIV. 3O, 2010: length composition (0/000), of the 130mm trawl catches.

LENGTH GROUP	MAR	MAY	1st Q.	2nd Q.	YEAR	LENGTH GROUP
19		4.4		4.4	2.7	19
20		71.0		71.0	43.7	20
21		67.0		67.0	41.3	21
22	1.4	66.9	1.4	66.9	41.7	22
23	12.5	99.0	12.5	99.0	65.7	23
24	11.1	93.4	11.1	93.4	61.8	24
25	15.3	108.2	15.3	108.2	72.5	25
26	70.7	113.7	70.7	113.7	97.2	26
27	29.1	139.2	29.1	139.2	96.9	27
28	147.0	100.0	147.0	100.0	118.1	28
29	138.7	95.5	138.7	95.5	112.1	29
30	113.7	31.6	113.7	31.6	63.2	30
31	112.3	9.7	112.3	9.7	49.1	31
32	111.0	0.3	111.0	0.3	42.8	32
33	87.4		87.4		33.6	33
34	90.1		90.1		34.7	34
35	23.6		23.6		9.1	35
36	12.5		12.5		4.8	36
37	1.4		1.4		0.5	37
38	11.1		11.1		4.3	38
39						39
40	11.1		11.1		4.3	40
TOTAL	1000	1000	1000	1000	1000	
No. SAMPLES	2	3	2	3	5	
SAMPLING WEIGHT(kg)	63	43	63	43	106	
No. F.MEASURED	154	224	154	224	378	
MEAN LENGTH(cm)	30.8	25.7	30.8	25.7	27.6	
MEAN WEIGHT (g)	400	205	400	205	280	
DEPTH RANGE (m)	336/479	143/476	336/479	143/476	143/479	

TABLE XVII: AMERICAN PLAICE, DIV. 3L, 2010: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	APR = YEAR	LENGTH GROUP
18	8.0	18
28	21.6	28
30	86.6	30
32	142.8	32
34	89.0	34
36	146.7	36
38	92.2	38
40	117.7	40
42	60.8	42
44	99.2	44
46	64.0	46
48	49.6	48
50	13.6	50
52		52
54	8.0	54
TOTAL	1000	
No. SAMPLES	2	
SAMPLING WEIGHT(kg)	81	
No. F.MEASURED	147	
MEAN LENGTH(cm)	38.8	
MEAN WEIGHT (g)	593	
DEPTH RANGE (m)	802/892	

TABLE XVIII: AMERICAN PLAICE, DIV. 3M, 2010: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	OCT = YEAR	LENGTH GROUP
20	12.0	20
22		22
24		24
26	24.1	26
28	12.0	28
30	72.3	30
32	108.4	32
34	192.8	34
36	132.5	36
38	192.8	38
40	48.2	40
42	12.0	42
44	12.0	44
46	36.1	46
48		48
50	24.1	50
52	24.1	52
54		54
56	36.1	56
58	36.1	58
60	24.1	60
TOTAL	1000	
No. SAMPLES	1	
SAMPLING WEIGHT(kg)	52	
No. F.MEASURED	83	
MEAN LENGTH(cm)	39.1	
MEAN WEIGHT (g)	632	
DEPTH RANGE (m)	211/228	

TABLE XIX-A : AMERICAN PLAICE, DIV. 3N, 2010: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	MAY	OCT	1st Q.	2nd Q.	4th Q.	YEAR	LENGTH GROUP
16	3.2			3.2			1.6	16
18	10.2			10.2			4.9	18
20	33.7			33.7			16.2	20
22	88.9			88.9			42.7	22
24	198.2			198.2			95.2	24
26	241.3	11.8		241.3	11.8		116.0	26
28	251.8	23.5	1.1	251.8	23.5	1.1	121.7	28
30	69.3	47.1	11.4	69.3	47.1	11.4	39.5	30
32	64.3	47.1	75.2	64.3	47.1	75.2	69.8	32
34	32.4	23.5	46.3	32.4	23.5	46.3	39.5	34
36	6.7	82.4	143.8	6.7	82.4	143.8	77.4	36
38		70.6	125.7		70.6	125.7	64.9	38
40		94.1	100.8		94.1	100.8	52.3	40
42		129.4	128.7		129.4	128.7	66.9	42
44		164.7	94.8		164.7	94.8	49.8	44
46		129.4	77.3		129.4	77.3	40.5	46
48		152.9	47.9		152.9	47.9	25.7	48
50		23.5	35.5		23.5	35.5	18.3	50
52			5.0			5.0	2.6	52
54			26.5			26.5	13.6	54
56			16.5			16.5	8.5	56
58			31.4			31.4	16.1	58
60			20.5			20.5	10.5	60
62			7.2			7.2	3.7	62
64			1.1			1.1	0.6	64
66			1.1			1.1	0.6	66
68			1.1			1.1	0.6	68
70			1.1			1.1	0.6	70
TOTAL	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	5	1	3	5	1	3	9	
SAMPLING WEIGHT(kg)	63	59	228	63	59	228	349	
No. F.MEASURED	340	85	241	340	85	241	666	
MEAN LENGTH(cm)	27.4	42.2	43.0	27.4	42.2	43.0	35.5	
MEAN WEIGHT (g)	207	744	807	207	744	807	518	
DEPTH RANGE (m)	307/461	841/886	50/68	307/461	841/886	50/68	50/886	

TABLE XIX-B : AMERICAN PLAICE, DIV. 3N, 2010: length composition (0/000) of the 280mm trawl catches.

LENGTH GROUP	JUL	OCT	NOV	3rd Q.	4th Q.	YEAR	LENGTH GROUP
22			4.1		4.1	3.8	22
24	6.0		31.4	6.0	31.3	29.4	24
26	17.9		100.6	17.9	100.5	94.3	26
28	17.9		156.3	17.9	156.1	145.6	28
30	119.2		143.2	119.2	143.1	141.2	30
32	232.8		113.9	232.8	113.8	122.9	32
34	119.2		59.3	119.2	59.3	63.8	34
36	31.1		23.6	31.1	23.5	24.1	36
38	107.7		52.7	107.7	52.6	56.8	38
40	66.4		37.8	66.4	37.8	39.9	40
42	131.5	58.8	34.7	131.5	34.8	42.1	42
44	53.6	58.8	42.7	53.6	42.7	43.5	44
46	25.1	58.8	18.3	25.1	18.3	18.8	46
48	36.2	117.6	27.7	36.2	27.8	28.4	48
50	22.1	117.6	18.7	22.1	18.8	19.0	50
52	7.2	58.8	52.0	7.2	52.0	48.6	52
54	1.7	176.5	49.7	1.7	49.9	46.2	54
56	1.3	58.8	4.9	1.3	4.9	4.6	56
58	0.8	58.8	2.2	0.8	2.3	2.2	58
60	0.8	117.6	17.2	0.8	17.3	16.1	60
62	1.7	58.8	4.9	1.7	4.9	4.7	62
64		58.8	4.1		4.2	3.9	64
TOTAL	1000	1000	1000	1000	1000	1000	
No. SAMPLES	2	1	2	2	3	5	
SAMPLING WEIGHT(kg)	144	30	234	144	264	408	
No. F.MEASURED	205	17	379	205	396	601	
MEAN LENGTH(cm)	37.7	54.1	37.0	37.7	37.0	37.1	
MEAN WEIGHT (g)	548	1530	590	548	591	587	
DEPTH RANGE (m)	49/78	57/69	59/90	49/78	57/90	49/90	

TABLE XX-A: AMERICAN PLAICE, DIV. 3O, 2010: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	1st Q.	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
18		17.5								16.9				10.4	18
20		17.5		5.3						16.9	0.5			10.6	20
22		70.2	45.5			15.9				67.7	35.3	8.4		51.2	22
24	23.2	175.4	125.0			23.0			8.9	170.0	97.0	12.2	8.9	130.7	24
26		299.6	159.1		5.3	69.0			6.0	288.9	124.1	36.5	6.0	212.4	26
28	75.7	125.6	125.0	15.8	8.8	83.1			1.5	123.8	99.7	44.0	1.5	104.7	28
30	125.1	42.0	125.0	15.8	21.9	130.0			7.4	45.0	101.3	68.8	7.4	58.6	30
32	105.0	133.2	102.3	65.6	14.5	75.2	18.5	1.9	16.5	132.2	87.7	41.3	16.5	107.5	32
34	239.3	20.3	125.0	55.1	18.2	150.3	55.6	20.5	49.4	28.2	104.8	90.5	49.4	53.2	34
36	175.8	42.0	56.8	110.2	29.2	93.7	74.1	13.8	73.6	46.8	58.7	58.3	73.6	52.3	36
38	228.3	23.1	102.3	39.4	36.6	85.8	92.6	33.3	47.9	30.4	87.9	63.3	47.9	48.3	38
40	15.3	18.9	11.4	49.9	92.8	29.2	148.1	93.9	49.1	18.8	25.3	61.6	49.1	25.3	40
42	9.2	5.5	11.4	112.8	106.9	93.7	203.7	98.3	88.8	5.7	33.3	99.8	88.8	24.3	42
44	3.1	3.5		141.7	174.1	78.7	92.6	111.3	108.0	3.4	35.7	93.3	108.0	24.3	44
46		0.7	11.4	110.3	168.0	43.3	129.6	165.7	101.5	0.7	40.7	99.6	101.5	23.8	46
48		1.4		118.2	137.1	15.0	74.1	145.6	133.3	1.3	28.8	73.9	133.3	21.4	48
50		0.7		52.6	102.8	7.1	55.6	114.8	115.9	0.7	18.0	55.6	115.9	15.9	50
52		1.4		13.1	57.5	7.1	18.5	75.1	94.4	1.3	8.5	37.0	94.4	11.3	52
54		0.7		31.4	26.2		37.0	48.5	40.2	0.7	6.4	22.4	40.2	6.0	54
56				31.4				41.0	31.9		3.1	17.8	31.9	4.0	56
58		0.7		31.4				18.6	15.4	0.7	3.1	8.1	15.4	2.7	58
60								9.3	7.3			4.0	7.3	0.7	60
62								8.5	2.9			3.7	2.9	0.4	62
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	2	2	1	2	3	2	1	4	5	4	6	7	5	22	
SAMPLING WEIGHT(kg)	40	49	26	129	197	65	39	263	322	89	352	367	322	1130	
No. F.MEASURED	90	130	88	155	224	135	54	288	353	220	467	477	353	1517	
MEAN LENGTH(cm)	35.1	28.8	31.3	43.8	45.3	36.1	43.5	47.6	46.0	29.0	34.3	41.4	46.0	32.2	
MEAN WEIGHT (g)	418	246	316	840	901	486	803	1039	963	253	441	738	963	377	
DEPTH RANGE (m)	478/690	336/480	341/446	143/476	194/274	127/157	279/285	190/277	234/384	336/690	143/476	127/285	234/384	127/690	

TABLE XX-B: AMERICAN PLAICE, DIV. 3O, 2010: length composition (0/000) of the 280mm trawl catches.

LENGTH GROUP	MAR	OCT	NOV	1st Q.	4th Q.	YEAR	LENGTH GROUP
16	10.8			10.8		5.9	16
18	10.8			10.8		5.9	18
20	75.3			75.3		41.1	20
22	43.0			43.0		23.5	22
24	215.1		15.6	215.1	8.8	121.3	24
26	75.3		31.3	75.3	17.6	49.1	26
28	86.0	1.2	31.3	86.0	18.1	55.2	28
30	139.8	4.7	93.8	139.8	54.8	101.2	30
32	182.8	4.7	117.2	182.8	68.0	130.6	32
34	118.3	110.7	171.9	118.3	145.1	130.5	34
36	21.5	177.0	78.1	21.5	121.3	66.9	36
38	10.8	51.5	46.9	10.8	48.9	28.1	38
40	10.8	71.5	15.6	10.8	40.0	24.1	40
42		13.9	70.3		45.6	20.7	42
44		133.9	23.4		71.7	32.6	44
46		162.1			70.9	32.2	46
48		111.1	62.5		83.7	38.1	48
50		65.1	54.7		59.2	26.9	50
52		7.1	46.9		29.5	13.4	52
54		31.1	31.3		31.2	14.2	54
56		11.2	39.1		26.9	12.2	56
58		5.9	7.8		7.0	3.2	58
60		29.1	23.4		25.9	11.8	60
62		3.5	31.3		19.1	8.7	62
64		2.4	7.8		5.4	2.5	64
66		2.4			1.0	0.5	66
TOTAL	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	5	1	1	6	7	
SAMPLING WEIGHT(kg)	21	628	106	21	734	755	
No. F.MEASURED	93	762	128	93	890	983	
MEAN LENGTH(cm)	29.0	44.1	41.0	29.0	42.4	35.1	
MEAN WEIGHT (g)	254	861	778	254	814	509	
DEPTH RANGE (m)	127/140	130/159	97/105	127/140	97/159	97/159	

TABLE XXI-A : YELLOWTAIL FLOUNDER, DIV. 3N, 2010: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	OCT = YEAR	LENGTH GROUP
28	47.6	28
30	35.7	30
32	83.3	32
34	59.5	34
36	178.6	36
38	202.4	38
40	83.3	40
42	142.9	42
44	59.5	44
46	11.9	46
48		48
50		50
52	23.8	52
54	47.6	54
56	11.9	56
58		58
60	11.9	60
TOTAL	1000	
No. SAMPLES	1	
SAMPLING WEIGHT(kg)	55	
No. F.MEASURED	84	
MEAN LENGTH(cm)	39.9	
MEAN WEIGHT (g)	650	
DEPTH RANGE (m)	50/68	

TABLE XXI-B: YELLOWTAIL FLOUNDER, DIV. 3N, 2010: length composition (0/000) of the 280mm trawl catches.

LENGTH GROUP	NOV = YEAR	LENGTH GROUP
20	18.9	20
22	18.9	22
24	207.5	24
26	132.1	26
28	94.3	28
30	94.3	30
32	283.0	32
34	113.2	34
36	18.9	36
38	18.9	38
TOTAL	1000	
No. SAMPLES	1	
SAMPLING WEIGHT(kg)	14	
No. F.MEASURED	53	
MEAN LENGTH(cm)	30.0	
MEAN WEIGHT (g)	240	
DEPTH RANGE (m)	59/59	

TABLE XXII: GREENLAND HALIBUT, DIV. 3L, 2010: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	MAR	APR	MAY	JUN	SEP	OCT	NOV	DEC	1st Q.	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
24			2.3				0.4	0.5			2.0		0.4	0.8	24
26		0.7	6.6				0.7	1.0		0.7	5.7		0.8	2.2	26
28	6.8	1.7	12.4				3.2	4.7		2.1	10.7		3.5	5.2	28
30	6.8	8.1	24.1			3.6	7.2	13.5		8.0	20.7	3.6	9.4	12.3	30
32	20.5	19.3	47.3			9.2	19.2	23.8		19.4	40.6	9.2	18.8	25.4	32
34	58.7	29.0	70.4	6.1		37.3	27.7	37.5	0.5	31.1	61.1	37.3	28.8	39.3	34
36	31.4	45.0	59.6	11.9		31.8	41.9	55.7	16.2	44.0	52.6	31.8	45.3	46.9	36
38	133.1	74.8	84.1	25.8	39.5	46.6	61.7	70.5	70.9	79.0	76.0	46.6	67.4	72.9	38
40	127.5	117.9	126.8	79.2	78.9	120.4	96.1	97.0	112.2	118.6	120.0	120.4	98.8	111.1	40
42	210.3	154.5	136.8	117.7	78.9	184.5	121.9	127.7	111.8	158.5	133.5	184.5	123.4	137.2	42
44	96.5	128.9	123.8	145.5	131.6	186.2	144.3	117.9	129.7	126.6	126.7	186.2	128.8	128.4	44
46	155.2	113.7	71.4	169.6	157.9	95.4	127.3	96.1	108.5	116.6	85.2	95.4	108.8	103.7	46
48	27.8	104.0	77.3	158.8	118.4	76.3	89.2	80.0	137.7	98.6	88.3	76.3	91.4	92.2	48
50	47.5	57.8	46.1	130.5	171.1	53.5	65.5	68.2	124.4	57.1	58.6	53.5	75.2	64.8	50
52	40.2	37.1	36.7	74.6	105.3	55.9	58.5	66.3	100.5	37.3	42.5	55.9	68.4	51.7	52
54	12.9	30.4	24.3	44.1	39.5	48.6	42.4	52.5	60.3	29.2	27.0	48.6	50.0	37.2	54
56	12.9	24.5	16.8	18.1	39.5	22.6	37.5	36.1	14.9	23.6	17.2	22.6	33.6	25.7	56
58	8.0	23.7	17.8	11.0	13.2	16.4	24.8	21.1	8.6	22.6	16.8	16.4	20.6	19.9	58
60	2.0	17.9	9.9	5.0	26.3	5.6	14.5	17.1	0.7	16.7	9.5	5.6	13.9	13.2	60
62	2.0	7.4	3.2	2.3		1.4	10.7	7.8	1.8	7.0	3.0	1.4	8.0	6.1	62
64		2.4	1.9			3.6	4.9	5.1	1.2	2.2	1.6	3.6	4.5	3.0	64
66		1.2	0.4				0.6			1.1	0.3		0.2	0.5	66
68			0.1								0.1			0.03	68
70						1.4						1.4		0.02	70
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	2	28	23	11	1	3	23	24	11	30	35	3	58	126	
SAMPLING WEIGHT(kg)	201	3428	2205	765	73	284	2974	3616	1560	3629	3043	284	8150	15107	
No. F.MEASURED	231	3405	2442	840	76	280	2602	3421	1727	3636	3358	280	7750	15024	
MEAN LENGTH(cm)	43.5	45.4	43.2	47.4	48.4	45.6	46.2	45.8	47.1	45.3	43.9	45.6	46.1	45.2	
MEAN WEIGHT (g)	717	837	729	924	991	833	885	866	907	828	757	833	879	827	
DEPTH RANGE (m)	1199/1244	838/1473	802/1351	859/1175	906/906	1000/1487	1123/1531	886/1531	810/1023	838/1473	802/1351	1000/1487	810/1531	802/1531	

TABLE XXIII: GREENLAND HALIBUT, DIV. 3M, 2010: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	MAR	APR	MAY	JUN	SEP	OCT	NOV	1st Q.	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
24			0.5					10.0		0.5		4.6	0.5	24
26		0.3	1.7				4.0	30.0	0.3	1.4		15.9	1.7	26
28		1.5	5.6				6.2	60.0	1.5	4.6		30.8	4.5	28
30		2.2	7.8				18.4	40.0	2.1	6.4		28.2	5.4	30
32	18.0	6.5	16.5				28.7	60.0	6.9	13.6		43.0	11.6	32
34		18.8	26.4	10.4			63.5	90.0	18.1	23.3		75.6	23.3	34
36	9.0	35.3	17.7		55.6	56.1	86.6	90.0	34.3	16.0	56.1	88.2	31.0	36
38	27.0	60.1	35.9	3.4	55.6	18.7	164.8	30.0	58.9	31.5	18.7	103.3	49.9	38
40	81.1	92.2	96.8	103.7	13.9	74.8	222.5	110.0	91.8	95.8	74.8	171.2	97.9	40
42	108.1	103.1	103.2	103.7	111.1	168.2	106.9	80.0	103.3	103.5	168.2	94.6	104.5	42
44	108.1	136.5	119.8	155.2	208.3	168.2	73.5	90.0	135.5	127.3	168.2	81.0	129.7	44
46	126.1	144.8	125.8	165.4	222.2	168.2	49.2	130.0	144.1	134.2	168.2	86.1	137.2	46
48	144.1	146.4	170.1	210.2	180.6	84.1	22.4	60.0	146.3	176.4	84.1	39.6	149.9	48
50	90.1	88.4	112.4	134.4	97.2	102.8	51.4	30.0	88.5	115.4	102.8	41.6	96.5	50
52	99.1	46.0	66.9	55.2	41.7	28.0	34.6	50.0	47.9	64.5	28.0	41.6	53.5	52
54	63.1	32.8	36.0	20.6		56.1	24.6	30.0	33.9	32.8	56.1	27.1	33.6	54
56	36.0	27.3	28.5	27.6	13.9	28.0	24.3	10.0	27.6	28.0	28.0	17.8	27.2	56
58	63.1	26.1	12.3	6.8		18.7	10.3		27.4	11.2	18.7	5.6	19.4	58
60	18.0	17.9	11.0	3.4		9.3	4.0		17.9	9.6	9.3	2.2	13.5	60
62		8.6	4.0			9.3	4.0		8.3	3.3	9.3	2.2	6.0	62
64	9.0	4.3	0.9			9.3			4.4	0.8	9.3		2.8	64
66		0.3							0.2				0.1	66
68		0.6							0.6				0.3	68
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	26	15	2	1	1	2	1	27	18	1	3	49	
SAMPLING WEIGHT(kg)	129	2926	1291	137	58	129	170	86	3055	1485	129	256	4925	
No. F.MEASURED	111	2826	1372	148	72	107	199	100	2937	1592	107	299	4935	
MEAN LENGTH(cm)	48.6	46.8	46.6	47.4	46.2	47.0	42.4	41.1	46.9	46.7	47.0	41.8	46.5	
MEAN WEIGHT (g)	1019	909	897	916	844	913	677	635	913	898	913	658	891	
DEPTH RANGE (m)	943/1062	109/1120	759/1157	853/1112	1003/1124	972/1008	938/1091	901/1070	109/1120	759/1157	972/1008	901/1091	109/1157	

TABLE XXIV : GREENLAND HALIBUT, DIV. 3N, 2010:
length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	MAY	OCT	NOV	2nd Q.	4th Q.	YEAR	LENGTH GROUP
30		2.5			0.4	0.1	30
32		9.9			1.8	0.6	32
34	6.1	12.4	1.5	6.1	3.5	5.2	34
36	30.8	9.9	1.5	30.8	3.0	21.3	36
38	42.8	25.2	6.2	42.8	9.6	31.4	38
40	25.6	40.5	27.2	25.6	29.5	26.9	40
42	62.5	29.7	45.8	62.5	43.0	55.8	42
44	112.2	112.7	161.0	112.2	152.5	126.0	44
46	138.7	108.2	154.5	138.7	146.3	141.3	46
48	201.2	30.6	169.0	201.2	144.4	181.8	48
50	113.1	181.3	92.4	113.1	108.1	111.4	50
52	87.5	188.7	162.4	87.5	167.1	114.7	52
54	43.6	111.2	93.6	43.6	96.7	61.8	54
56	37.2	116.6	50.3	37.2	62.1	45.7	56
58	31.1		1.8	31.1	1.5	21.0	58
60	12.2	20.7	25.1	12.2	24.3	16.3	60
62	30.8		1.5	30.8	1.3	20.7	62
64	6.1		3.4	6.1	2.8	5.0	64
66	18.3		2.7	18.3	2.2	12.8	66
TOTAL	1000	1000	1000	1000	1000	1000	
No. SAMPLES	2	2	5	2	7	9	
SAMPLING WEIGHT(kg)	171	155	762	171	917	1089	
No. F.MEASURED	160	152	721	160	873	1033	
MEAN LENGTH(cm)	49.3	50.1	49.7	49.3	49.8	49.4	
MEAN WEIGHT (g)	1069	1108	1070	1069	1077	1072	
DEPTH RANGE (m)	841/922	381/958	296/509	841/922	296/958	296/958	

TABLE XXV: GREENLAND HALIBUT, DIV. 3O, 2010: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	JUN	AUG	SEP	OCT	NOV	1st Q.	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
32	16.7		21.3	0.3	1.4		16.7		1.2	1.1	1.9	32
34	16.7	13.5	63.8	3.8	0.9	1.5	16.7	13.5	6.3	1.0	4.3	34
36	100.0		106.4	4.4	8.1	3.1	100.0		8.7	6.9	12.4	36
38	233.3	27.0	63.8	10.0	10.8	36.0	233.3	27.0	12.3	17.0	28.9	38
40	183.3	54.1	148.9	29.9	26.8	77.4	183.3	54.1	34.8	39.1	47.2	40
42	133.3	67.6	148.9	60.1	31.5	124.3	133.3	67.6	63.8	54.1	62.4	42
44	66.7	121.6	170.2	62.6	81.6	91.0	66.7	121.6	67.1	83.9	80.5	44
46	50.0	135.1	148.9	81.1	114.2	115.6	50.0	135.1	83.9	114.5	103.2	46
48	116.7	175.7	106.4	129.7	125.5	109.6	116.7	175.7	128.7	121.6	126.9	48
50	16.7	175.7	21.3	133.5	109.1	126.6	16.7	175.7	128.8	113.4	116.2	50
52	66.7	94.6		114.3	135.9	123.5	66.7	94.6	109.6	132.9	119.8	52
54		54.1		78.4	136.9	111.4		54.1	75.1	130.7	102.1	54
56		40.5		88.6	95.8	24.5		40.5	84.9	78.5	73.3	56
58		13.5		72.8	58.2	32.3		13.5	69.7	51.9	51.5	58
60		13.5		59.7	46.3	14.9		13.5	57.2	38.6	40.1	60
62		13.5		43.1	6.5	2.9		13.5	41.3	5.6	16.1	62
64				11.9	4.1	1.5			11.4	3.4	5.3	64
66				7.8	5.8	2.4			7.5	5.0	5.1	66
68				3.1					3.0		0.9	68
70				3.1	0.6	1.5			3.0	0.8	1.4	70
72												72
74				1.7					1.6		0.5	74
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	1	1	17	13	4	1	1	18	17	37	
SAMPLING WEIGHT(kg)	44	73	30	1281	1410	591	44	73	1311	2002	3429	
No. F.MEASURED	60	74	47	1078	1224	579	60	74	1125	1803	3062	
MEAN LENGTH(cm)	42.6	48.8	42.8	52.2	51.6	48.9	42.6	48.8	51.8	50.9	50.6	
MEAN WEIGHT (g)	667	1017	670	1281	1214	1029	667	1017	1256	1169	1155	
DEPTH RANGE (m)	601/690	200/226	282/300	225/510	207/452	310/433	601/690	200/226	225/510	207/452	200/690	

TABLE XXVI: ROUGHHEAD GRENADIER, DIV. 3L, 2010: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	MAR	APR	MAY	JUN	SEP	OCT	NOV	DEC	1st Q.	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
7	3.9					2.6			3.9			1.5	2.2	7
8	7.8					13.0	10.0		7.8			11.3	10.0	8
9	42.7	0.9				48.2	20.7		42.7	0.3		35.4	37.1	9
10	109.2	5.2	9.7		12.3	112.7	63.5		109.2	5.9	12.3	89.0	94.0	10
11	129.4	21.1	12.7		49.4	170.1	172.1		129.4	12.7	49.4	165.0	150.5	11
12	317.6	116.9	33.1	42.3	61.7	301.7	298.6	19.1	317.6	64.3	61.7	290.6	295.1	12
13	169.0	138.6	65.0	84.5	135.8	145.5	121.8	121.5	169.0	95.0	135.8	135.1	145.4	13
14	56.5	134.4	78.3	154.9	160.5	58.5	107.8	131.2	56.5	115.3	160.5	80.8	73.6	14
15	61.5	169.2	135.6	197.2	160.5	40.3	71.2	120.8	61.5	161.4	160.5	55.5	59.5	15
16	25.4	167.6	162.3	183.1	160.5	44.4	44.7	136.7	25.4	168.9	160.5	47.7	42.8	16
17	13.0	76.8	176.9	154.9	86.4	6.7	28.3	133.3	13.0	137.1	86.4	19.8	19.8	17
18	9.0	70.8	169.4	84.5	86.4	17.2	10.8	120.4	9.0	115.7	86.4	18.3	17.1	18
19	7.9	34.8	64.6	56.3	37.0	14.1	16.7	98.6	7.9	52.4	37.0	18.1	15.4	19
20	12.2	22.4	36.3	28.2	12.3		13.0	54.4	12.2	29.6	12.3	7.1	9.2	20
21	11.7	13.8	24.5	14.1		11.5	2.6	55.0	11.7	18.4		9.4	10.4	21
22	7.8	9.0	10.8			4.1	4.8	2.4	7.8	7.7		4.4	5.5	22
23	7.8	6.1	6.4		12.3	1.6	2.4	2.4	7.8	4.9	12.3	1.9	3.9	23
24	3.9	4.5	12.2		24.7	2.6	2.4	2.7	3.9	6.7	24.7	2.5	3.0	24
25		1.2	2.2				0.1			1.3		0.0	0.1	25
26	3.9	3.3				1.6	6.4	0.9	3.9	1.1		3.5	3.6	26
27		1.6				3.7		0.5		0.6		2.1	1.4	27
28							2.1					0.9	0.6	28
29		1.6								0.6			0.01	29
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	8	8	7	1	1	3	6	10	8	16	1	19	44	
SAMPLING WEIGHT(kg)	283	239	210	25	30	177	408	815	283	474	30	1400	2187	
No. F.MEASURED	692	600	526	71	81	378	800	1467	692	1197	81	2645	4615	
MEAN LENGTH(cm)	13.2	15.7	17.0	16.2	15.7	13.0	13.5	16.9	13.2	16.4	15.7	13.3	13.3	
MEAN WEIGHT (g)	267	414	498	437	415	254	283	493	267	455	415	274	275	
DEPTH RANGE (m)	844/1334	848/1196	868/1140	906/906	1000/1178	1155/1453	904/1496	808/947	844/1334	848/1196	1000/1178	808/1496	808/1496	

TABLE XXVII: ROUGHHEAD GRENADIER, DIV. 3M, 2010: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	MAR	APR	MAY	JUN	SEP	NOV	1st Q.	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
7							7.3				7.3	2.6	7
8	33.9					14.9	43.8	26.4		14.9	43.8	24.4	8
9	50.8					37.3	65.7	39.6		37.3	65.7	42.2	9
10	101.7	14.9	13.0	24.5	28.2	67.2	73.0	82.5	17.6	67.2	73.0	64.1	10
11	186.4		13.0	57.1	84.5	231.3	197.1	145.2	31.7	231.3	197.1	179.6	11
12	203.4	74.6	103.9	140.9	126.8	343.3	277.4	174.9	116.7	343.3	277.4	266.0	12
13	101.7	209.0	181.8	153.6	197.2	89.6	124.1	125.4	174.6	89.6	124.1	118.5	13
14	135.6	164.2	168.8	156.9	169.0	74.6	109.5	141.9	165.3	74.6	109.5	108.5	14
15	16.9	194.0	155.8	163.9	140.8	37.3	43.8	56.1	157.1	37.3	43.8	59.1	15
16	50.8	194.0	207.8	161.7	169.0	44.8	29.2	82.5	191.0	44.8	29.2	65.1	16
17		74.6	51.9	70.7	56.3	7.5	21.9	16.5	57.9	7.5	21.9	20.9	17
18	33.9	44.8	64.9	50.0	28.2	14.9	7.3	36.3	57.6	14.9	7.3	21.1	18
19	16.9	14.9	13.0	11.6				16.5	11.6			3.8	19
20		14.9	13.0	4.6		14.9		3.3	9.5	14.9		7.4	20
21	33.9		13.0	2.3				26.4	8.8			4.7	21
22				2.3		7.5			0.7	7.5		2.9	22
23	33.9					7.5		26.4		7.5		6.2	23
24													24
25													25
26						7.5				7.5		2.8	26
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	1	1	3	1	1	1	2	5	1	1	9	
SAMPLING WEIGHT(kg)	30	23	25	77	21	60	53	53	123	60	53	289	
No. F.MEASURED	59	67	77	239	71	134	137	126	387	134	137	784	
MEAN LENGTH(cm)	13.4	15.2	15.2	14.8	14.4	13.0	12.5	13.8	15.1	13.0	12.5	13.2	
MEAN WEIGHT (g)	292	367	370	344	320	256	221	309	358	256	221	265	
DEPTH RANGE (m)	943/1062	792/797	1038/1157	808/1112	1003/1124	1049/1147	901/1070	792/1062	808/1157	1049/1147	901/1070	792/1157	

TABLE XXVIII: ROUGHHEAD GRENADIER, DIV. 3N, 2010: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	MAY = YEAR	LENGTH GROUP
10	14.1	10
11	28.2	11
12	42.3	12
13	14.1	13
14	42.3	14
15	112.7	15
16	98.6	16
17	239.4	17
18	154.9	18
19	84.5	19
20	14.1	20
21	28.2	21
22	28.2	22
23	28.2	23
24	14.1	24
25	14.1	25
26	28.2	26
27	14.1	27
TOTAL	1000	
No. SAMPLES	1	
SAMPLING WEIGHT(kg)	42	
No. F.MEASURED	71	
MEAN LENGTH(cm)	17.9	
MEAN WEIGHT (g)	597	
DEPTH RANGE (m)	845/922	

TABLE XXIX: WITCH FLOUNDER, DIV. 3L, 2010: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	APR = YEAR	LENGTH GROUP
24	9.3	24
26	9.3	26
28	27.8	28
30	46.3	30
32	101.9	32
34	250.0	34
36	222.2	36
38	120.4	38
40	129.6	40
42	64.8	42
44	9.3	44
46	9.3	46
TOTAL	1000	
No. SAMPLES	1	
SAMPLING WEIGHT(kg)	40	
No. F.MEASURED	108	
MEAN LENGTH(cm)	36.7	
MEAN WEIGHT (g)	538	
DEPTH RANGE (m)	873/926	

TABLE XXX: WITCH FLOUNDER, DIV. 3M, 2010:
length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	NOV = YEAR	LENGTH GROUP
28	103.4	28
30	69.0	30
32	89.7	32
34	82.8	34
36	124.1	36
38	69.0	38
40	82.8	40
42	69.0	42
44	103.4	44
46	96.6	46
48	110.3	48
TOTAL	1000	
No. SAMPLES	1	
SAMPLING WEIGHT(kg)	93	
No. F.MEASURED	145	
MEAN LENGTH(cm)	39.2	
MEAN WEIGHT (g)	649	
DEPTH RANGE (m)	297/302	

TABLE XXXI: WITCH FLOUNDER, DIV. 3N, 2010:
length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	OCT	NOV	4th Q. = YEAR	LENGTH GROUP
26	53.7		19.1	26
28	100.7	71.9	82.1	28
30	120.8	52.3	76.7	30
32	80.5	78.4	79.2	32
34	134.2	78.4	98.3	34
36	114.1	71.9	86.9	36
38	73.8	111.1	97.8	38
40	140.9	137.3	138.6	40
42	87.2	71.9	77.4	42
44	40.3	98.0	77.5	44
46	20.1	111.1	78.7	46
48		91.5	58.9	48
50	33.6	26.1	28.8	50
TOTAL	1000	1000	1000	
No. SAMPLES	1	1	2	
SAMPLING WEIGHT(kg)	84	104	188	
No. F.MEASURED	149	153	302	
MEAN LENGTH(cm)	36.6	40.2	38.9	
MEAN WEIGHT (g)	539	670	623	
DEPTH RANGE (m)	273/294	311/347	273/347	

TABLE XXXII-A: WITCH FLOUNDER, DIV. 3O, 2010: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	MAR	JUL	OCT	NOV	1st Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
18				8.2				6.0	0.3	18
20		11.8				8.3			7.6	20
22		47.1		24.7		33.2		17.9	31.4	22
24		94.1	13.9	57.7		66.4	13.9	41.8	63.6	24
26	17.9	164.7	27.8	83.9	47.0	121.5	27.8	73.7	116.2	26
28	107.1	176.5	27.8	139.7	80.5	156.1	27.8	123.4	150.7	28
30	267.9	152.9	55.6	80.4	73.8	186.7	55.6	78.6	177.0	30
32	366.1	129.4	125.0	59.0	53.7	199.0	125.0	57.6	188.9	32
34	169.6	141.2	208.3	82.0	120.8	149.5	208.3	92.7	147.9	34
36	35.7	35.3	111.1	75.5	100.7	35.4	111.1	82.5	40.2	36
38	17.9	11.8	138.9	73.8	87.2	13.6	138.9	77.5	20.6	38
40	17.9	35.3	208.3	78.7	100.7	30.2	208.3	84.8	38.1	40
42			13.9	59.0	80.5		13.9	65.0	4.1	42
44			41.7	73.8	94.0		41.7	79.4	5.7	44
46			27.8	54.1	60.4		27.8	55.9	4.0	46
48				49.2	80.5			57.8	3.3	48
50					20.1			5.6	0.3	50
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	1	1	2	1	2	1	3	6	
SAMPLING WEIGHT(kg)	28	18	31	99	92	46	31	191	267	
No. F.MEASURED	112	85	72	183	149	197	72	332	601	
MEAN LENGTH(cm)	32.7	30.4	36.9	35.5	38.7	31.1	36.9	36.4	31.5	
MEAN WEIGHT (g)	402	348	541	517	616	364	541	545	379	
DEPTH RANGE (m)	601/690	467/480	382/456	148/476	393/404	467/690	382/456	148/476	148/690	

TABLE XXXII-B : WITCH FLOUNDER, DIV. 3O, 2010:
length composition (0/000) of the 280mm trawl catches.

LENGTH GROUP	OCT	NOV	4th Q. = YEAR	LENGTH GROUP
26	27.4	39.8	34.7	26
28	70.4	54.4	61.0	28
30	97.8	130.0	116.8	30
32	78.9	156.8	124.9	32
34	87.4	156.3	128.1	34
36	89.8	123.8	109.9	36
38	89.0	42.2	61.4	38
40	89.0	80.3	83.8	40
42	116.7	58.6	82.5	42
44	87.4	68.9	76.5	44
46	64.4	28.5	43.2	46
48	57.2	38.2	46.0	48
50	44.7	22.0	31.3	50
TOTAL	1000	1000	1000	
No. SAMPLES	3	3	6	
SAMPLING WEIGHT(kg)	279	203	481	
No. F.MEASURED	440	362	802	
MEAN LENGTH(cm)	39.0	36.8	37.7	
MEAN WEIGHT (g)	628	547	580	
DEPTH RANGE (m)	138/250	66/143	66/250	

TABLE XXXIII: THORNY SKATE, DIV. 3L, 2010:
length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	MAY = YEAR	LENGTH GROUP
32	18.2	32
34	18.2	34
36		36
38	18.2	38
40	18.2	40
42	72.7	42
44	145.5	44
46	109.1	46
48	163.6	48
50	54.5	50
52	90.9	52
54	54.5	54
56	109.1	56
58	72.7	58
60	54.5	60
TOTAL	1000	
No. SAMPLES	1	
SAMPLING WEIGHT(kg)	62	
No. F.MEASURED	55	
MEAN LENGTH(cm)	49.4	
MEAN WEIGHT (g)	1654	
DEPTH RANGE (m)	859/870	

TABLE XXXIV: THORNY SKATE, DIV. 3M, 2010: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	MAR	APR	JUN	JUL	SEP	OCT	1st Q.	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
22			22.1					12.6			5.7	22
24												24
26			43.2	32.0				24.6	21.7		17.0	26
28	3.6		51.7				3.6	29.4			14.3	28
30	3.1		81.2	184.0			3.1	46.2	124.7		54.9	30
32	8.2		104.0	88.0			8.2	59.2	59.7		44.9	32
34	37.8		49.0	92.0			37.8	27.9	62.4		38.9	34
36	31.9		121.8	152.0	58.8	40.0	31.9	69.3	122.0	40.0	73.0	36
38	39.4		101.6	60.0	58.8	80.0	39.4	57.8	59.6	80.0	54.1	38
40	34.3	13.7	285.8	364.0		40.0	34.3	168.5	246.8	40.0	151.9	40
42	51.3	27.4	59.2	28.0	117.6	40.0	51.3	45.5	56.9	40.0	49.9	42
44	84.1	41.1	63.5		117.6		84.1	53.9	37.9		56.2	44
46	73.4		17.0		117.6	120.0	73.4	9.6	37.9	120.0	35.9	46
48	119.7	82.2				80.0	119.7	35.4		80.0	48.7	48
50	65.3	95.9			117.6	200.0	65.3	41.3	37.9	200.0	50.1	50
52	74.1	68.5			176.5	160.0	74.1	29.5	56.8	160.0	51.1	52
54	12.4	82.2			117.6	40.0	12.4	35.4	37.9	40.0	30.3	54
56	35.3	95.9				120.0	35.3	41.3		120.0	30.6	56
58	35.3	41.1				40.0	35.3	17.7		40.0	18.0	58
60	70.5	109.6					70.5	47.2			39.7	60
62	52.9	82.2			58.8	40.0	52.9	35.4	18.9	40.0	35.7	62
64	17.6	13.7					17.6	5.9			7.2	64
66												66
68		82.2						35.4			16.2	68
70	17.6	54.8					17.6	23.6			15.3	70
72	35.3						35.3				9.1	72
74	52.9	82.2					52.9	35.4			29.8	74
76												76
78		27.4			58.8			11.8	18.9		10.4	78
80												80
82	8.8						8.8				2.3	82
84	26.4						26.4				6.8	84
86	8.8						8.8				2.3	86
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	3	1	5	2	1	1	3	6	3	1	13	
SAMPLING WEIGHT(kg)	558	143	248	96	55	92	558	391	151	92	1191	
No. F.MEASURED	187	73	83	33	17	25	187	156	50	25	418	
MEAN LENGTH(cm)	53.1	58.7	36.7	36.3	50.0	49.6	53.1	46.2	40.7	49.6	46.6	
MEAN WEIGHT (g)	2238	2528	1299	1255	2554	2451	2238	1829	1673	2451	1907	
DEPTH RANGE (m)	445/805	792/845	255/357	300/351	330/347	360/496	445/805	255/845	300/351	360/496	255/845	

TABLE XXXV-A: THORNY SKATE, DIV. 3N, 2010:
length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	OCT = YEAR	LENGTH GROUP
38	45.5	38
40	90.9	40
42		42
44	45.5	44
46		46
48		48
50		50
52	45.5	52
54	181.8	54
56	136.4	56
58	90.9	58
60	181.8	60
62	90.9	62
64		64
66	45.5	66
68		68
70	45.5	70
TOTAL	1000	

No. SAMPLES	1
SAMPLING WEIGHT(kg)	74
No. F.MEASURED	22
MEAN LENGTH(cm)	55.7
MEAN WEIGHT (g)	3145
DEPTH RANGE (m)	310/343

TABLE XXXV-B : THORNY SKATE, DIV. 3N, 2010:
length composition (0/000) of the 280mm trawl catches.

LENGTH GROUP	OCT = YEAR	LENGTH GROUP
40	45.5	40
42		42
44	45.5	44
46	45.5	46
48	90.9	48
50	90.9	50
52	45.5	52
54	136.4	54
56	90.9	56
58		58
60	90.9	60
62	90.9	62
64	90.9	64
66	136.4	66
TOTAL	1000	

No. SAMPLES	1
SAMPLING WEIGHT(kg)	67
No. F.MEASURED	22
MEAN LENGTH(cm)	56.0
MEAN WEIGHT (g)	3174
DEPTH RANGE (m)	57/69

TABLE XXXVI-A: THORNY SKATE, DIV. 3O, 2010: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	JUN	JUL	SEP	OCT	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
26		48.8				14.4		6.0	26
28									28
30		97.6				28.7		12.1	30
32		97.6				28.7		12.1	32
34		97.6				28.7		12.1	34
36	13.9	170.7	7.4		13.9	55.5		26.1	36
38	41.7	219.5		5.2	41.7	64.6	5.2	37.5	38
40	27.8	195.1	12.4	26.0	27.8	66.1	26.0	43.3	40
42	55.6	48.8	29.6	51.7	55.6	35.3	51.7	45.6	42
44	97.2	24.4	36.1	50.2	97.2	32.7	50.2	52.3	44
46	83.3		70.2	79.3	83.3	49.6	79.3	67.6	46
48	125.0		96.4	122.4	125.0	68.0	122.4	100.0	48
50	55.6		111.8	108.3	55.6	78.9	108.3	85.3	50
52	97.2		98.5	101.6	97.2	69.5	101.6	87.2	52
54	83.3		72.7	62.1	83.3	51.3	62.1	61.9	54
56	83.3		95.5	96.0	83.3	67.4	96.0	81.4	56
58	69.4		65.3	70.4	69.4	46.1	70.4	60.0	58
60	83.3		65.0	89.3	83.3	45.9	89.3	69.8	60
62	55.6		77.3	58.4	55.6	54.6	58.4	56.2	62
64	13.9		62.5	48.0	13.9	44.1	48.0	39.5	64
66			47.6	17.1		33.6	17.1	20.6	66
68	13.9		43.6	13.8	13.9	30.8	13.8	21.0	68
70			4.0			2.8		1.2	70
72			4.0			2.8		1.2	72
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	1	3	2	1	4	2	7	
SAMPLING WEIGHT(kg)	93	124	519	320	93	644	320	1056	
No. F.MEASURED	72	41	217	145	72	258	145	475	
MEAN LENGTH(cm)	51.4	36.5	55.1	53.3	51.4	49.6	53.3	51.4	
MEAN WEIGHT (g)	1827	1273	2147	1977	1827	1890	1977	1910	
DEPTH RANGE (m)	194/233	149/157	241/530	261/412	194/233	149/530	261/412	149/530	

TABLE XXXVI-B: THORNY SKATE, DIV. 3O, 2010: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	MAR = YEAR	LENGTH GROUP
28	13.0	28
30	39.0	30
32	64.9	32
34	51.9	34
36	233.8	36
38	259.7	38
40	181.8	40
42	90.9	42
44	26.0	44
46	26.0	46
48	13.0	48
TOTAL	1000	
No. SAMPLES	1	
SAMPLING WEIGHT(kg)	231	
No. F.MEASURED	77	
MEAN LENGTH(cm)	38.2	
MEAN WEIGHT (g)	1393	
DEPTH RANGE (m)	127/140	

TABLE XXXVII: SPINYTAIL SKATE, DIV. 3L, 2010:
length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	OCT	NOV	4th Q. = YEAR	LENGTH GROUP
30	30.3		16.1	30
32				32
34				34
36				36
38	30.3		16.1	38
40				40
42	60.6		32.3	42
44				44
46				46
48	60.6	34.5	48.4	48
50	181.8		96.8	50
52	30.3	34.5	32.3	52
54	30.3		16.1	54
56		34.5	16.1	56
58				58
60	60.6	69.0	64.5	60
62	30.3	34.5	32.3	62
64	30.3	34.5	32.3	64
66	30.3		16.1	66
68		103.4	48.4	68
70	30.3	34.5	32.3	70
72		69.0	32.3	72
74				74
76	30.3		16.1	76
78				78
80	30.3		16.1	80
82	30.3	34.5	32.3	82
84				84
86	30.3		16.1	86
88				88
90	60.6	69.0	64.5	90
92	60.6		32.3	92
94	60.6	34.5	48.4	94
96				96
98	30.3	69.0	48.4	98
100	30.3	69.0	48.4	100
102	30.3	69.0	48.4	102
104		69.0	32.3	104
106		69.0	32.3	106
108		34.5	16.1	108
110				110
112				112
114		34.5	16.1	114
TOTAL	1000	1000	1000	
No. SAMPLES	3	2	5	
SAMPLING WEIGHT(kg)	220	222	443	
No. F.MEASURED	33	29	62	
MEAN LENGTH(cm)	67.5	83.9	75.2	
MEAN WEIGHT (g)	5034	8114	6475	
DEPTH RANGE (m)	1165/1441	890/1393	890/1441	

TABLE XXXVIII : SPINYTAIL SKATE, DIV. 3M, 2010:
length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	MAR = YEAR	LENGTH GROUP
40	90.9	40
42		42
44	90.9	44
46		46
48	90.9	48
50		50
52		52
54	181.8	54
56		56
58		58
60	90.9	60
62	90.9	62
64		64
66	181.8	66
68		68
70	90.9	70
72	90.9	72
TOTAL	1000	
No. SAMPLES	1	
SAMPLING WEIGHT(kg)	79	
No. F.MEASURED	11	
MEAN LENGTH(cm)	58.3	
MEAN WEIGHT (g)	3125	
DEPTH RANGE (m)	930/1050	

TABLE XXXIX: WHITE HAKE, DIV. 3O, 2010: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	MAR	JUN	JUL	SEP	OCT	1st Q.	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
29					4.6				4.6	1.7	29
30			12.0					4.8		1.5	30
31					9.1				9.1	3.4	31
32			24.1					9.6		3.0	32
33	15.0		12.0		22.8	15.0		4.8	22.8	13.6	33
34				16.8	16.7			10.1	16.7	9.3	34
35	30.0			7.5	21.4	30.0		4.5	21.4	16.7	35
36			24.1	16.8	41.2			19.7	41.2	21.3	36
37	15.0		12.0	26.0	36.8	15.0		20.5	36.8	23.6	37
38	15.0		36.1	19.7	32.2	15.0		26.3	32.2	23.7	38
39		18.2	96.4	13.8	42.9		18.2	46.7	42.9	31.6	39
40		18.2	24.1	67.1	46.1		18.2	49.9	46.1	33.8	40
41	30.0	18.2	24.1	76.1	46.1	30.0	18.2	55.4	46.1	42.9	41
42	30.0			67.1	78.2	30.0		40.3	78.2	48.7	42
43	3.8	18.2	12.0	83.8	84.2	3.8	18.2	55.2	84.2	50.5	43
44	15.0		84.3	48.7	38.5	15.0		62.9	38.5	37.3	44
45	90.1	36.4	144.6	32.2	70.5	90.1	36.4	77.0	70.5	74.7	45
46	93.9	36.4	204.8	80.9	58.4	93.9	36.4	130.3	58.4	87.6	46
47	135.1		72.3	35.3	50.9	135.1		50.1	50.9	67.5	47
48	165.1	36.4	12.0	60.7	72.1	165.1	36.4	41.3	72.1	82.8	48
49	33.8		72.3	48.9	43.1	33.8		58.2	43.1	42.2	49
50	33.8	36.4		35.1	49.2	33.8	36.4	21.1	49.2	35.8	50
51	30.0	18.2	24.1	30.6	36.9	30.0	18.2	28.0	36.9	31.0	51
52	97.7	18.2	24.1	53.7	32.2	97.7	18.2	41.9	32.2	50.2	52
53	15.0	36.4	12.0	37.1	24.6	15.0	36.4	27.1	24.6	23.9	53
54	5.7	18.2		18.4	12.2	5.7	18.2	11.0	12.2	10.7	54
55	18.8	54.5		18.6	4.7	18.8	54.5	11.2	4.7	13.9	55
56	35.7	36.4		9.3	7.6	35.7	36.4	5.6	7.6	16.1	56
57	3.8	54.5		18.4	7.6	3.8	54.5	11.0	7.6	11.3	57
58	9.5	90.9	24.1	13.8	4.7	9.5	90.9	17.9	4.7	16.5	58
59	1.9	18.2	12.0	4.5		1.9	18.2	7.5		4.2	59
60	3.8			13.6	4.7	3.8		8.2	4.7	5.2	60
61	7.6	18.2	24.1	9.1		7.6	18.2	15.1		7.9	61
62	11.4	90.9		13.8		11.4	90.9	8.3		12.3	62
63	1.9	36.4	12.0	9.1		1.9	36.4	10.3		6.4	63
64	3.8	54.5		4.5		3.8	54.5	2.7		5.9	64
65	9.5	72.7		4.5		9.5	72.7	2.7		8.7	65
66	3.8	36.4				3.8	36.4			3.7	66
67	5.7	18.2		4.5		5.7	18.2	2.7		3.6	67
68	1.9	36.4				1.9	36.4			3.2	68
69	3.8	18.2				3.8	18.2			2.3	69
70	5.7	18.2				5.7	18.2			2.8	70
71		36.4					36.4			2.8	71
72	3.8					3.8				0.9	72
73											73
74	1.9					1.9				0.5	74
75	1.9					1.9				0.5	75
76	3.8					3.8				0.9	76
77	5.7					5.7				1.4	77
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	2	1	1	3	3	2	1	4	3	10	
SAMPLING WEIGHT(kg)	214	96	83	151	138	214	96	235	138	682	
No. F.MEASURED	126	55	83	171	174	126	55	254	174	609	
MEAN LENGTH(cm)	49.2	58.1	45.6	47.1	44.5	49.2	58.1	46.5	44.5	47.3	
MEAN WEIGHT (g)	1037	1707	810	903	750	1037	1707	866	750	929	
DEPTH RANGE (m)	369/479	385/461	231/290	191/409	243/476	369/479	385/461	191/409	243/476	191/479	

TABLE XL : HADDOCK, DIV. 3O, 2010: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	SEP = YEAR	LENGTH GROUP
35	28.2	35
36	14.1	36
37	28.2	37
38	14.1	38
39	14.1	39
40	84.5	40
41	98.6	41
42	98.6	42
43	70.4	43
44	70.4	44
45	28.2	45
46	140.8	46
47	42.3	47
48	56.3	48
49	42.3	49
50	70.4	50
51	28.2	51
52	28.2	52
53	28.2	53
54		54
55	14.1	55
TOTAL	1000	

No. SAMPLES	1
SAMPLING WEIGHT(kg)	53
No. F.MEASURED	71
MEAN LENGTH(cm)	44.5
MEAN WEIGHT (g)	720
DEPTH RANGE (m)	183/186

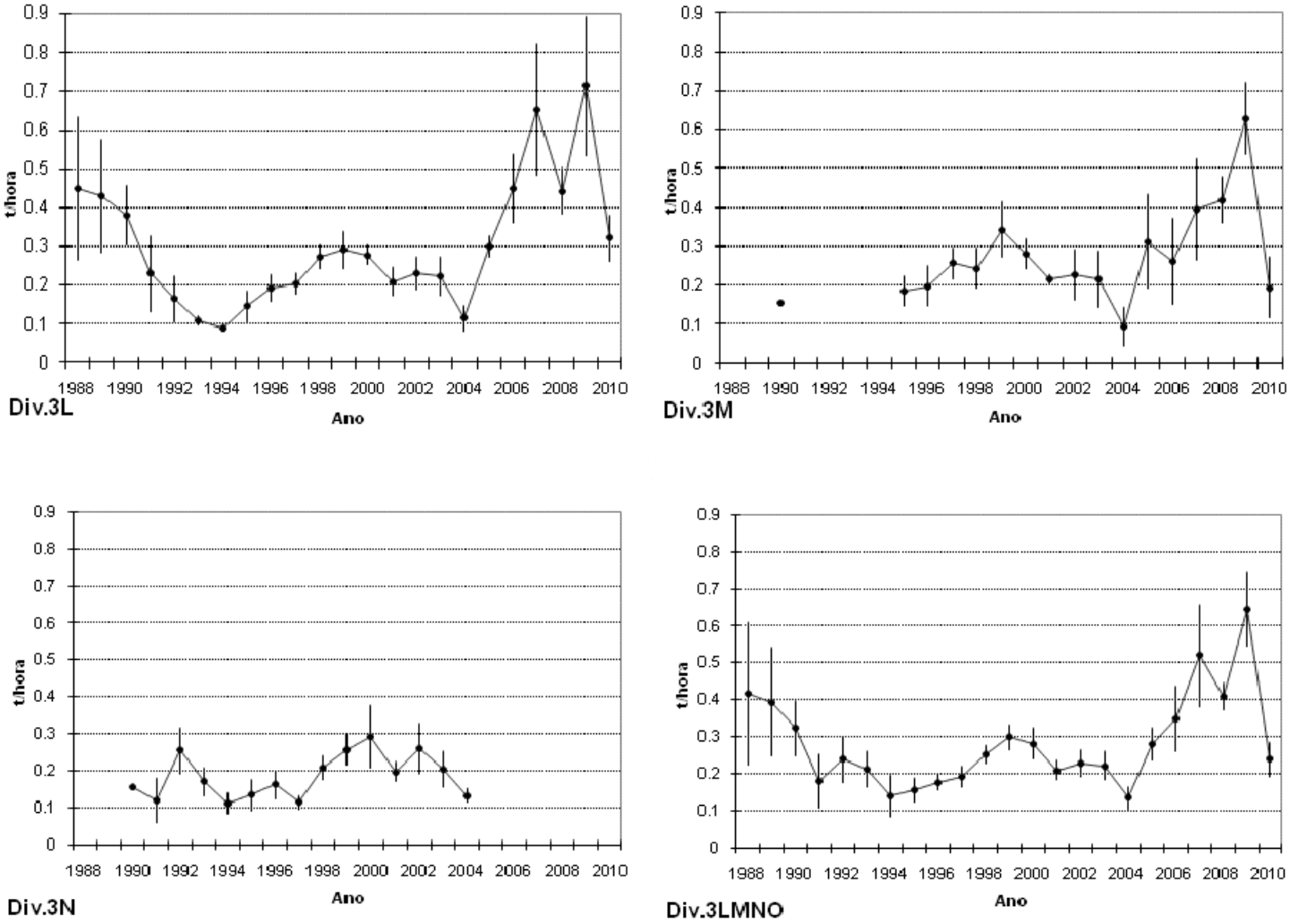

Fig. 1: Greenland halibut trawl catch rates by division, 1988 - 2010.

Fig. 2A - Annual length composition of Cod on Division 3M 130mm trawl fishery in 2010.

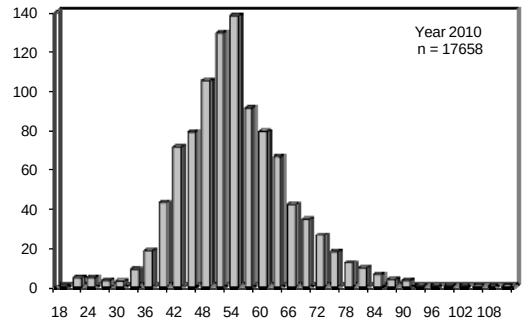

Fig. 2B- Annual age composition of Cod on Division 3M 130mm trawl fishery in 2010.

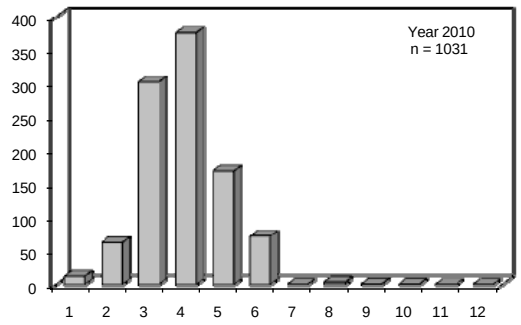

Fig. 3A - Annual length composition of Cod on Division 3N 130mm trawl fishery in 2010.

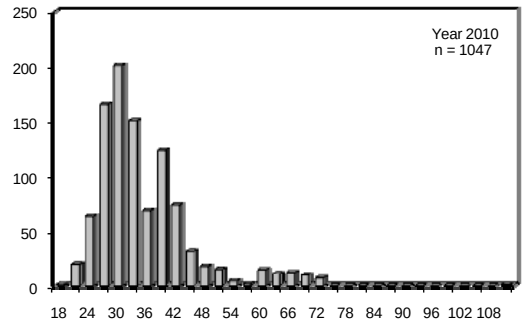

Fig. 3B - Annual length composition of Cod on Division 3N 280mm trawl fishery in 2010.

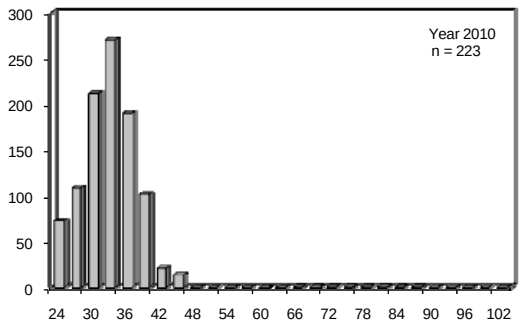

Fig. 4 - Annual length composition of Cod on Division 3O 130mm trawl fishery in 2010.

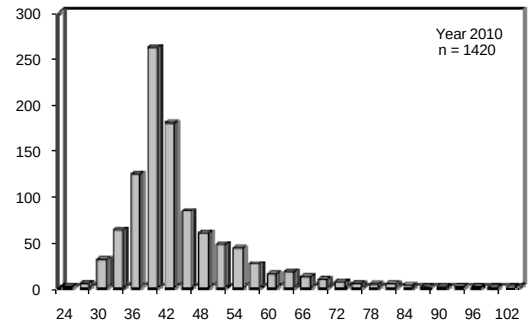

Fig. 5 - Annual length composition of Redfish (*S. mentella*) on Division 3L 130mm trawl fishery in 2010.

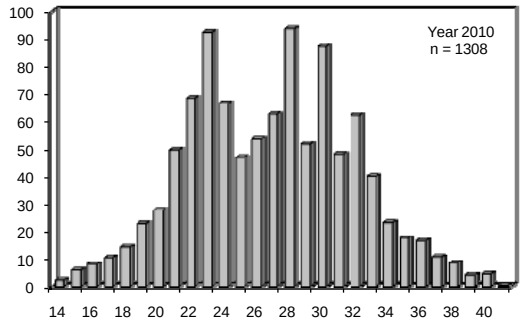

Fig. 6 - Annual length composition of Redfish (*S. mentella*) on Division 3M 130mm trawl fishery in 2010.

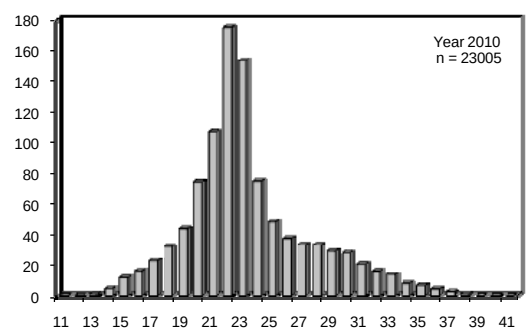

Fig. 7 - Annual length composition of Redfish (*S. mentella*) on Division 3N 130mm trawl fishery in 2010.

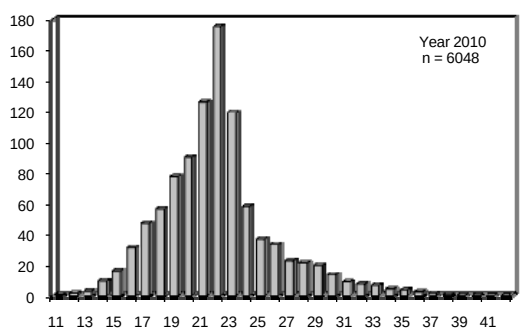

Fig. 8A - Annual length composition of Redfish (*S. mentella*) on Division 3O 130mm trawl fishery in 2010.

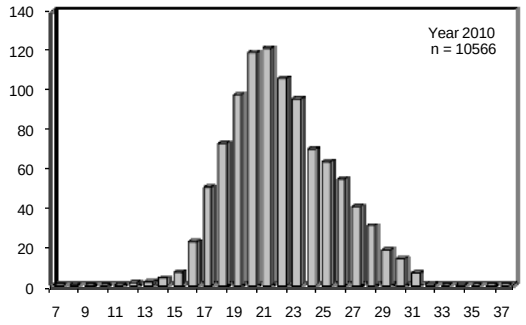

Fig. 8B - Annual length composition of Redfish (*S. mentella*) on Division 3O 280mm trawl fishery in 2010.

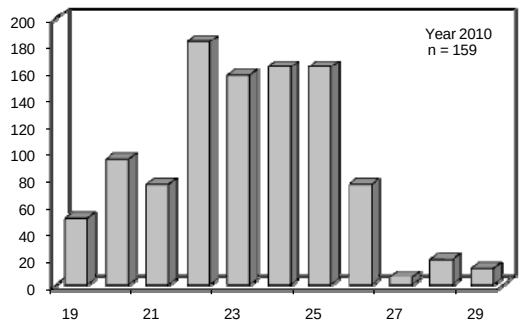

Fig. 9- Annual length composition of Redfish (*S. marinus*) on Division 3L 130mm trawl fishery in 2010.

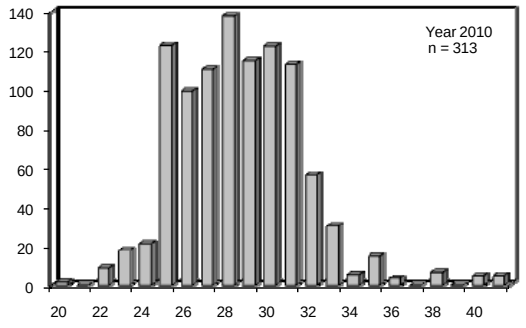

Fig. 10- Annual length composition of Redfish (*S. marinus*) on Division 3M 130mm trawl fishery in 2010.

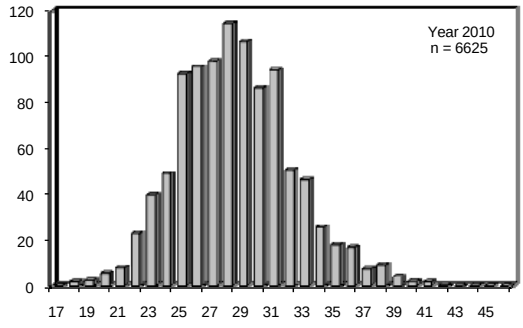

Fig. 11- Annual length composition of Redfish (*S. marinus*) on Division 3O 130mm trawl fishery in 2010.

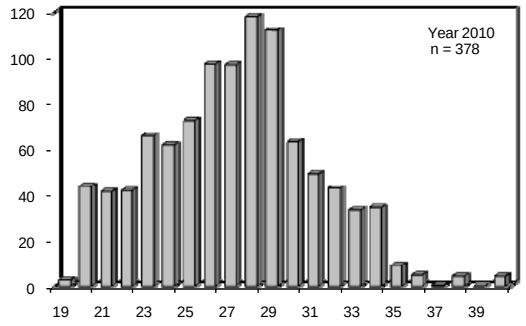

Fig. 12- Annual length composition of American plaice on Division 3L 130mm trawl fishery in 2010.

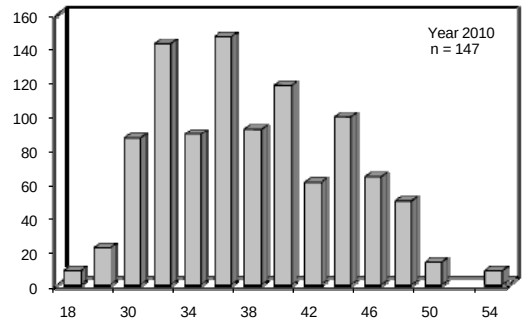

Fig. 13- Annual length composition of American plaice on Division 3M 130mm trawl fishery in 2010.

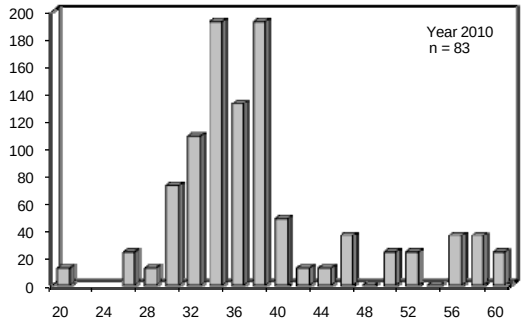

Fig. 14A- Annual length composition of American plaice on Division 3N 130mm trawl fishery in 2010.

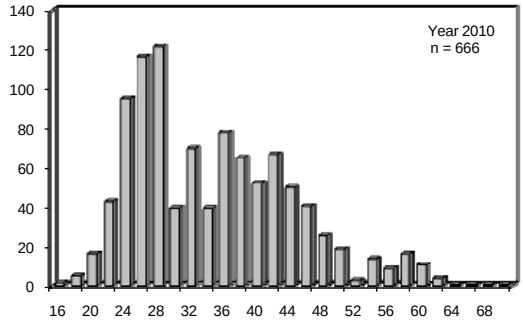

Fig. 14B- Annual length composition of American plaice on Division 3N 280mm trawl fishery in 2010.

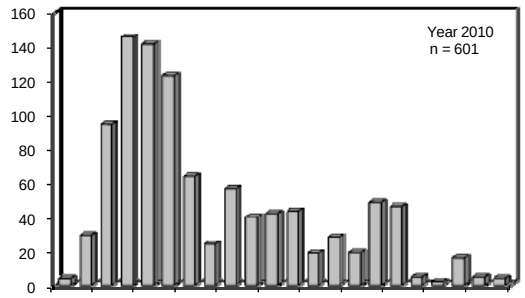

Fig. 15A- Annual length composition of American plaice on Division 3O 130mm trawl fishery in 2010.

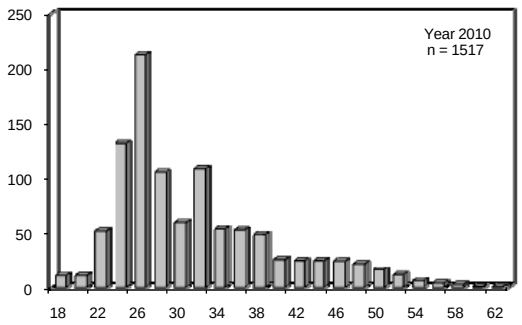

Fig. 15B- Annual length composition of American plaice on Division 3O 280mm trawl fishery in 2010.

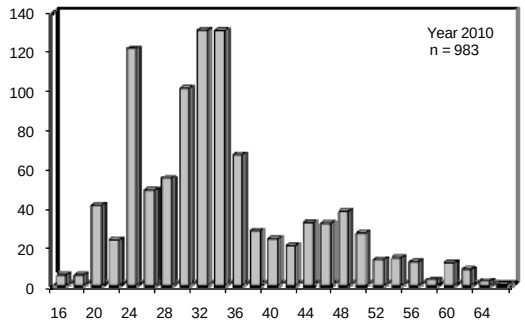

Fig. 16A- Annual length composition of Yellowtail flounder on Division 3N 130mm trawl fishery in 2010.

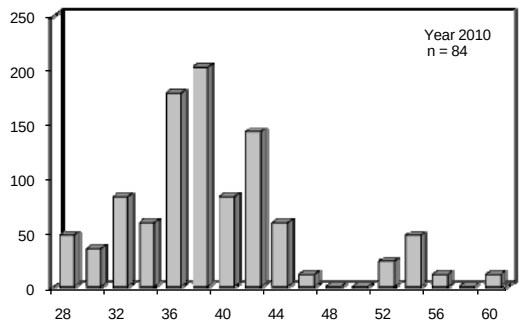

Fig. 16B- Annual length composition of Yellowtail flounder on Division 3N 280mm trawl fishery in 2010.

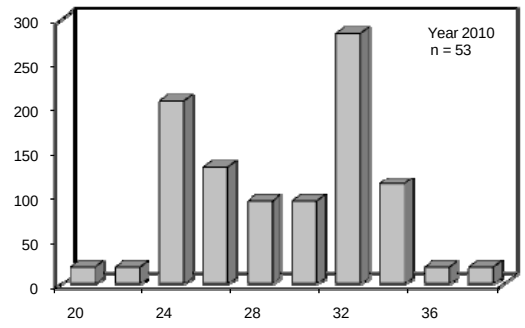

Fig. 17- Annual length composition of Greenland halibut on Division 3L 130mm trawl fishery in 2010.

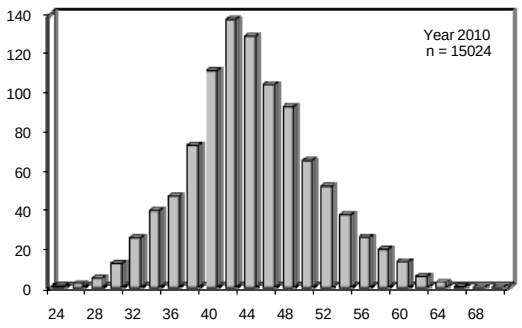

Fig. 18- Annual length composition of Greenland halibut on Division 3M 130mm trawl fishery in 2010.

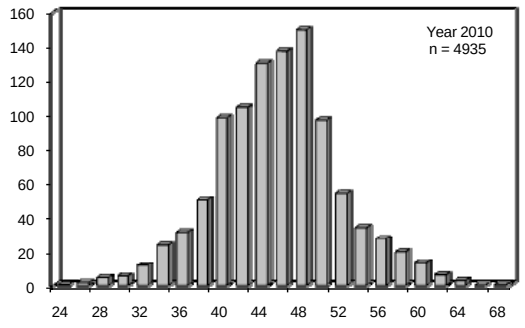

Fig. 19- Annual length composition of Greenland halibut on Division 3N 130mm trawl fishery in 2010.

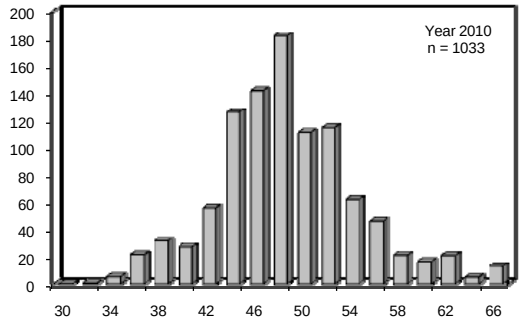

Fig. 20 - Annual length composition of Greenland halibut on Division 3O 130mm trawl fishery in 2010.

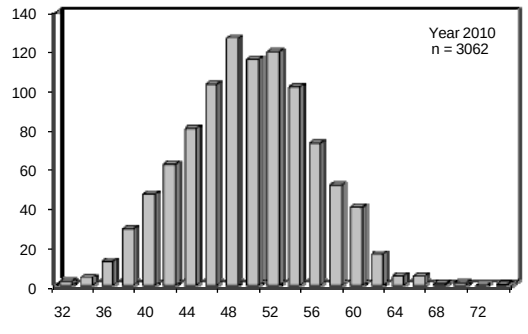

Fig. 21 - Annual length composition of Roughhead grenadier on Division 3L 130mm trawl fishery in 2010.

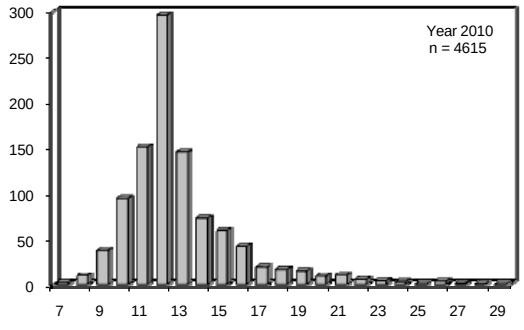

Fig. 22 - Annual length composition of Roughhead grenadier on Division 3M 130mm trawl fishery in 2010.

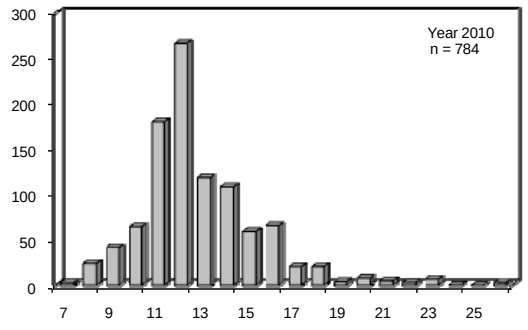

Fig. 23 - Annual length composition of Roughhead grenadier on Division 3N 130mm trawl fishery in 2010.

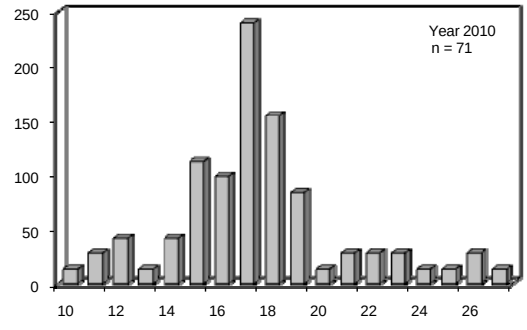

Fig. 24 - Annual length composition of Witch flounder on Division 3L 130mm trawl fishery in 2010.

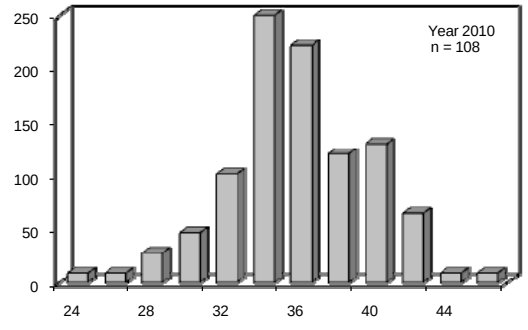

Fig. 25 - Annual length composition of Witch flounder on Division 3M 130mm trawl fishery in 2010.

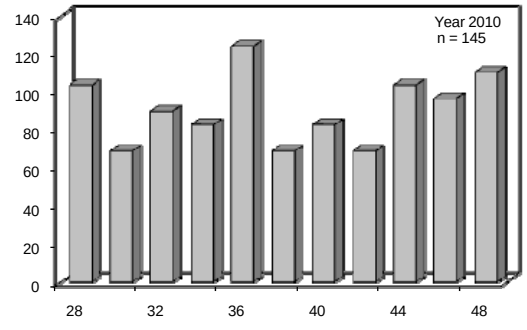

Fig. 26 - Annual length composition of Witch flounder on Division 3N 130mm trawl fishery in 2010.

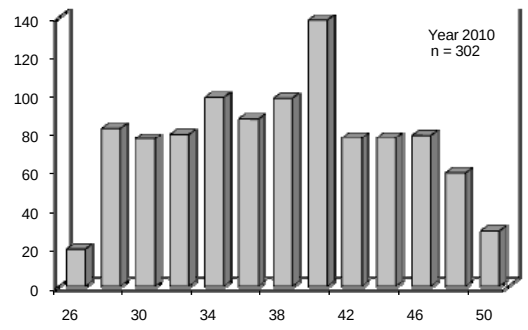

Fig. 27A - Annual length composition of Witch flounder on Division 3O 130mm trawl fishery in 2010.

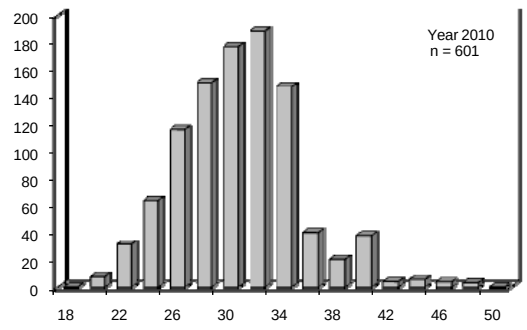

Fig. 27B - Annual length composition of Witch flounder on Division 3O 280mm trawl fishery in 2010.

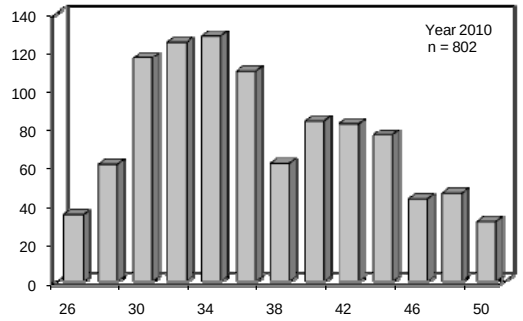

Fig. 28 - Annual length composition of Torny skate on Division 3L 130mm trawl fishery in 2010.

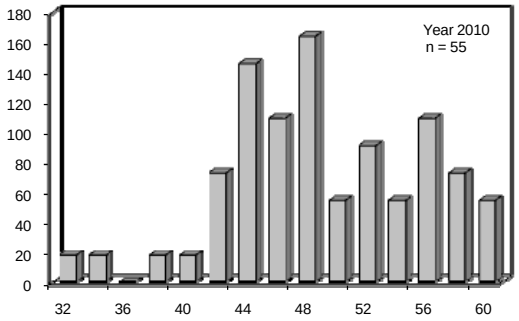

Fig. 29- Annual length composition of Torny skate on Division 3M 130mm trawl fishery in 2010.

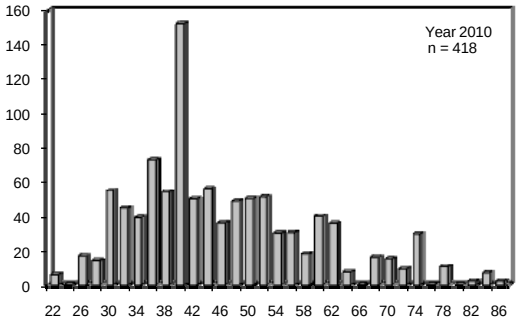

Fig. 30A - Annual length composition of Torny skate on Division 3O 130mm trawl fishery in 2010.

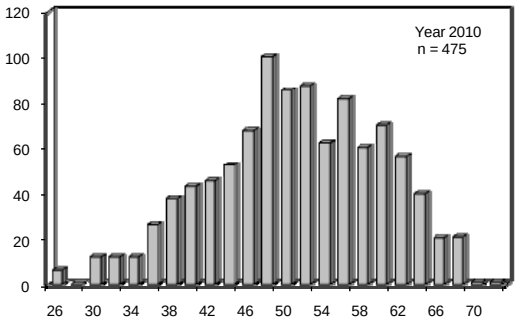

Fig. 30B - Annual length composition of Torny skate on Division 3O 280mm trawl fishery in 2010.

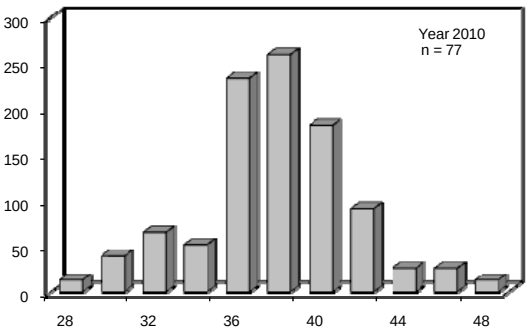

Fig. 31 - Annual length composition of Spinytail skate on Division 3L 130mm trawl fishery in 2010.

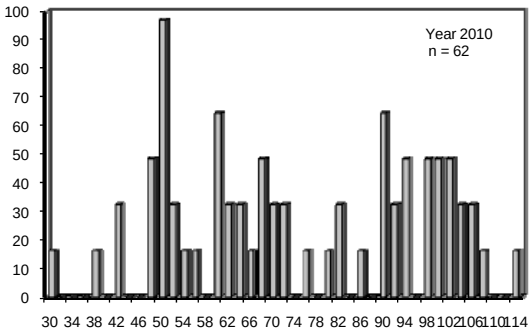

Fig. 32 - Annual length composition of White hake on Division 3O 130mm trawl fishery in 2010.

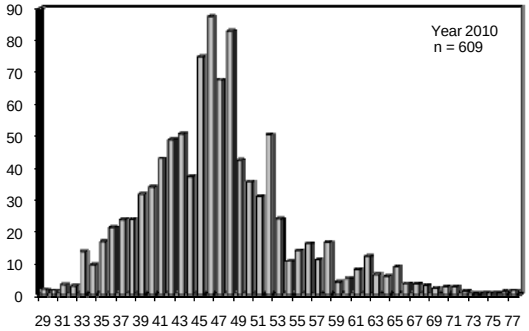

Fig. 33 - Annual length composition of Haddock on Division 3O 130mm trawl fishery in 2010.