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PORTUGUESE RESEARCH REPORT FOR 2006

by

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A. Status of the fisheries

In 2006, the Portuguese nominal catches proceeding from NAFO Regulatory Sub Area 3 have reached a similar value (12 341 ton) that recorded since 2004. Over recent years nominal catches increased continuously from 2000 to 2003, when they peak at 21 300 ton, but declined sharply afterwards, to 12 800 ton and 11 500 ton in 2004-2005 (Table I).

In 2006, the fishing effort in days was the same as 2005 but the fishing effort in hours increased 25%. In Div. 3N fishing effort fell again by half, both in fishing days and fishing hours. In Div. 3L the effort declined almost 20% in fishing days, but remains stable in fishing hours. In Div. 3M and Div. 3O the effort increased, both in fishing days (12% and 44%, respectively) and in fishing hours (29% and 86%, respectively).

The increase in total catch (Table I-A) was mainly due to increase in redfish (+6%), which reached the highest value since 1993 (9 828 ton). Other important increase was observed in the by-catch of cod (+69%) and in the catch of skates (+74%). Major drops are observed on roughhead grenadier (-47%) and white hake (-38%). By-catches of American plaice (361 ton), yellowtail (194 ton) and witch flounder (137 ton) were kept in 2006 within their recent levels.

Redfish continues to be by far the most important species in the Portuguese commercial catches from Sub Area 3, representing on recent years 50% or more of the overall catch. Div. 3O continues to be the most important ground for this fishery and have increase from 2005 to 2006 (+14%). The catch of redfish in Div. 3M remains stable, but their relative weight in the total catch of this division decreased (-7%), due to the increase of Greenland halibut catch.

The Greenland halibut catches decreased in Div. 3N (-84%) and 3O (-79%). However catches doubled in Div. 3M and increased 13% in Div. 3L, the division where Greenland halibut and roughhead grenadier continued to represent the bulk of the catches (above 90% in 2005-2006). In Div. 3N the relative weight of these two species has been declining from 76% in 1998 to 35% in 2004-2005 and 11% in 2006. In this division, the skates continue to be the most important fishery, now with 70% of total catch (37% in 2005).

B. Portuguese Annual Sampling Program

1. Catch and effort sampling.

Effort and CPUE data for 2006 Portuguese trawl fishery on the NAFO Regulatory Area were obtained through the revision of skipper logbooks from two trawlers, kindly supplied by its owners. All the information (round weight of the catch by species, fishing effort, positions and depths) has been recorded on a tow-by-tow basis. The vessel conversion factors were used to convert its processed landings in catches. Effort data obtained through the revision

of the 2006 logbooks available were processed in order to convert the 2006 Portuguese effort, reported in fishing days, on the 2006 Portuguese STATLANT 21-B, into fishing hours (Table II-A/B).

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

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

The Greenland halibut cpue series was updated with the 2006 observed CPUEs, this update only included one vessel in 2006 because if we include the other vessel (new vessel with new gear) the analysis give unrealistic values. The additive model (Ávila de Melo and Alpoim, 1995), was upgraded in 1998 (Alpoim *et al.*, 1998), and used like in previous years to standardise the observed CPUEs. From January 1988 till April 1995 each monthly observed CPUE of this series was previously corrected for 130mm mesh size (Ávila de Melo and Alpoim, 1996). In this analysis, any observation corresponding to a month and a trawler with less than 10 hours of directed effort was rejected. The CPUEs are presented in Tables IV and Fig. 1, with the associated standard errors (± 2 standard errors in the Figures) and coefficients of variation.

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

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

In Div. 3L catch rates declined prior to the boom of the deep-water fishery (Table IV-A, Fig. 1). However, it is from 1990 to 1991, i.e. from the first to the second year of this new fishery in the Regulatory Area, that CPUEs fell by half. Between 1991 and 1994 catch rates remained stable at a low level. Since then catch rates gradually increased, reaching an upper level in 1999-2000. Catch rate declined in 2001 and remained stable at that lower level in 2002 and 2003. In 2004 the catch rate decline again, reaching the lowest value since 1994. However in 2005 and 2006 the Greenland halibut catch rate in Div. 3L recovered and is in 2006 at the 1999-2000 levels.

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 2006 biological sampling was obtained from two stern trawlers fishing in Div. 3L, 3M, 3N and 3O during all the year. Apart from species under moratoria, a priority to be sampled whenever they appear in the hauls, biological sampling was conducted for the two most abundant species in each haul, following the NAFO sampling recommendations.

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

Since 1996, all commercial information is representative of the catch as a whole, although sampling continues to be carried out by sex with the exception of cod, white hake, Atlantic halibut, skates and monkfish. Mean length and weight at age are the mean of mean lengths and weights at age by sex, weighted by the abundance in the sampled catches of males and females at each age. For all species mean weight at age and mean weight in the catch are derived from the length-weight relationships calculated from the commercial sampling in 2006 (Table VI). For some stocks such as 3NO Cod, 3LN Redfish, 3LNO American plaice, 3LNO Yellowtail flounder and White hake the length-weight relationships used were those from the 2004 commercial sampling (Vargas, 2005), due to the small length/weight sampling in 2006.

2.1. Length composition of the 2006 skate net trawl fishery (280mm codend mesh size).

Some sets in Div. 3N and 3O were made with a skate trawl net with 280mm mesh size in the codend, representing 3,5% in Div.3N and 4,5% in Div 3O of the total effort sampled. In these sets the main species were sampled. Length frequency, mean length and mean weight in the catch are presented for cod (Tab. VIII-B, IX-B; Fig. 3B, 4B), redfish (*S. mentella* – Tab XIII-B, Fig. 8B), American plaice (Tab. XVII-B, XVIII-B; Fig. 12B, 13B), yellowtail flounder (Tab. XIX-B, Fig. 14B), witch flounder (Tab. XXIX-B, XXX-B; Fig. 24B, 25B), white hake (Table XXXII-B, Fig. 26B), thorny skate (Tab. XXXV-B, XXXVI-B, Fig. 29B, 30B) and monkfish (Tab. XLI-B, XLII-B; Fig. 33B). The size of these catches within the overall sampled catch in Div. 3N is about 15% for cod, 82% for American plaice, 87% for yellowtail flounder, 9% for witch flounder, 87% for thorny skate and 54% for monkfish. In Div. 3O is about 7% for cod, 1% for redfish (*S. mentella*), 46% for American plaice, 11% for witch flounder, 9% for white hake, 60% for thorny skate and 29% for monkfish.

2.2. Length composition of the 2006 trawl fishery (130mm codend mesh size).

2.2.1. Cod Div. 3M

Information on length composition of the cod by-catch in Div. 3M is available for April, July, August and October (Table VII, Fig. 2), from 170m to 840m depth.

Lengths between 48cm and 63cm dominated the catch, with a modal classes at 57cm and 60cm (mean length and weight of 58cm and 2362g).

2.2.2. Cod Div. 3N

Information on length composition of the cod by-catch in Div. 3N is available for July and from October to December (Table VIII-A, Fig. 3A), from 62m to 534m depth.

Lengths between 42cm and 54cm dominated the catch, with a clear modal class at 51cm (mean length and weight of 49cm and 1433g). In 2000-2006 years, mean length are no trends but declined sharply since 2004 (Fig. 5).

2.2.3. Cod Div. 3O

Information on length composition of the cod by-catch in Div. 3O is available for April, June, July and from October to December (Table IX-A, Fig. 4A), from 121m to 620m depth.

Lengths between 39cm and 51cm dominated the catch, with a clear modal class at 42cm (mean length and weight of 46cm and 1153g). In 2000-2006 years, mean length are no trends but declined sharply since 2004 (Fig. 5), like in Div.- 3N.

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

Information on length composition of the redfish (*S. mentella*) trawl by-catch in Div. 3L is available from February to April and for August (Table X, Fig. 5), from 693m to 1410m depth.

Lengths between 27cm and 30cm dominated the catch, with a modal class at 30cm (mean length and weight of 29cm and 351g). In 2000-2006 years, mean length remains stable in this Div. (Fig. 10)

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

Information on length composition of the redfish (*S. mentella*) trawl catch in Div. 3M is available for February and April and from July to October (Table XI, Fig. 6), from 208m to 1148m depth.

Lengths between 21cm and 24cm dominated the catch, with a modal class at 22cm (mean length and weight of 24cm and 207g). Stable between 2000 and 2003 years, mean length presents great oscillations since 2004 (Fig. 10).

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

Information on length composition of the redfish (*S. mentella*) trawl by-catch in Div. 3N is available for July and from October to December (Table XII, Fig. 7), from 136m to 748m depth.

Lengths between 21cm and 23cm dominated the catch, with a modal classes at 22cm and 23cm (mean length and weight of 24cm and 204g). In this Div., the mean length presents a continuous decrease since 2000 (except for 2004), reached in 2006 the same value of the mean length in Div. 3M (Fig. 10)

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

Information on length composition of the redfish (*S. mentella*) trawl catch in Div. 3O is available for April, June and July and from October to December (Table XIII-A, Fig. 8A), from 121m to 750m depth.

Lengths between 20cm and 24cm dominated the catch, with a modal class at 22cm (mean length and weight of 23 cm and 191g). In 2000-2006 years, mean length remains stable in this Div. (Fig. 10)

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

Information on length composition of the redfish (*S. marinus*) trawl by-catch in Div. 3M is available for April and from July to October (Table XIV, Fig. 9), from 170m to 406m depth.

Lengths between 25cm and 31cm dominated the catch, with a clear modal classes at 27 and 28cm (mean length and weight of 28 cm and 305g).

2.2.9. American plaice Div. 3L

Information on length composition of the American plaice by-catch in Div. 3L is available from January to April (Table XV, Fig. 10), from 645m to 1514m depth.

Lengths between 30cm and 40cm dominated the catch, with a modal classes at 30cm, 32cm and 36cm (mean length and weight of 37cm and 549g).

2.2.10. American plaice Div. 3M

Information on length composition of the American plaice by-catch in Div. 3M is available only for January (Table XVI, Fig. 11), from 840m to 1151m.

Despite the very small sampling, we can conclude that lengths between 34cm and 42cm dominated the catch, with a clear modal class at 40cm (mean length and weight of 40cm and 660g).

2.2.11. American plaice Div. 3N

Information on length composition of the American plaice by-catch in Div. 3N is available for July, October and November (Table XVII-A, Fig. 12A), from 62m to 309m depth.

Lengths between 26cm and 30cm (and at 34cm) dominated the catch, with a modal classes at 26cm, 28cm and 30cm (mean length and weight of 33cm and 425g).

2.2.12. American plaice Div. 3O

Information on length composition of the American plaice by-catch in Div. 3O is available for April, June and July and from October to December (Table XVIII-A, Fig. 13A), from 93m to 637m depth.

Lengths between 30cm and 40cm dominated the catch, with a modal class at 36cm (mean length and weight of 38cm and 661g).

2.2.13. Yellowtail flounder Div. 3N

Information on length composition of the yellowtail flounder catches in Div. 3N is available only for July and November (Table XIX-A, Fig. 14A), from 62m to 98m depth.

Lengths at 34cm, 36cm, 40cm and 42cm dominated the catch, with a very clear modal class at 40cm (mean length and weight of 39cm and 583g).

2.2.14. Yellowtail flounder Div. 3O

Information on length composition of the yellowtail flounder catches in Div. 3O is available only for July and November (Table XX, Fig. 15), from 93m to 430m depth.

Lengths between 30cm and 38cm dominated the catch, with a very clear modal classes at 34cm and 36cm (mean length and weight of 35cm and 427g).

2.2.15. Greenland halibut Div. 3L

Information on length composition of the Greenland halibut catches in Div. 3L is available from January to April and from August to October (Table XXI, Fig. 16), from 645m to 1557m depth

Lengths between 40cm and 46cm dominated the catch, with a clear modal class at 42cm (mean length and weight of 44cm and 845g). In this Div., mean length are no trend in the range 2000-2006 (Fig. 23).

2.2.16. Greenland halibut Div. 3M

Information on length composition of the Greenland halibut catches in Div. 3M is available from January to April (except March) and from July to October (Table XXII, Fig. 17), from 208m to 1180m depth.

Lengths between 40cm and 50cm dominated the catch, with a modal classes at 42cm, 44cm and 46cm (mean length and weight of 46cm and 942g). After a moderate increase between 2000 and 2002, mean length remain stable since then (Fig. 17).

2.2.17. Greenland halibut Div. 3N

Information on length composition of the Greenland halibut catches in Div. 3N is available only for July and October (Table XXIII, Fig. 18) from 438m to 748m depth.

Lengths between 36cm and 46cm dominated the catch, with a clear modal classes at 40cm and 42cm (mean length and weight of 43cm and 769g).

2.2.18. Greenland halibut Div. 3O

Information on length composition of the Greenland halibut catches in Div. 3O is available from October to December (Table XXIV, Fig. 19), from 123m to 750m depth.

Lengths between 34cm and 42cm dominated the catch, with a modal class at 40cm (mean length and weight of 42cm and 699g).

2.2.19. Roughhead grenadier Div. 3L

Information on length composition of the roughhead grenadier catches in Div. 3L is available from January to April and from August to October (Table XXV, Fig. 20), from 645m to 1514m depth.

Anal fin lengths between 11cm and 14cm dominated the catch, with a clear modal class at 12cm (mean length and weight of 14cm and 405g). After presents the same value between 2000 and 2003, since 2004 great oscillations are observed in the mean length.

2.2.20. Roughhead grenadier Div. 3M

Information on length composition of the roughhead grenadier catches in Div. 3M is available from January to April (except March) (Table XXVI, Fig. 21), from 840m to 1180m depth.

Anal fin lengths between 10cm and 13cm dominated the catch, with a clear modal class at 12cm (mean length and weight of 12cm and 312g). Between 2000 and 2004 no trends are observed; after 2004, the mean length follow the same pattern observed in Div. 3L

2.2.21. Witch flounder Div. 3L

Information on length composition of the witch flounder catches in Div. 3L is available from January to April and for August and October (Table XXVII, Fig. 22), from 645m to 1514m depth.

Lengths between 32cm and 38cm dominated the catch, with modal classes at 34cm, 36cm and 38cm (mean length and weight of 37cm and 491g).

2.2.22. Witch flounder Div. 3M

Information on length composition of the witch flounder catches in Div. 3M is available for January, July, August and October (Table XXVIII, Fig. 23), from 208m to 1151m depth.

Lengths between 32cm and 38cm dominated the catch, with a clear modal class at 36cm (mean length and weight of 37cm and 489g).

2.2.23. Witch flounder Div. 3N

Information on length composition of the witch flounder catches in Div. 3N is available only for October and November (Table XXIX-A, Fig. 24A), from 92m to 534m depth.

Lengths between 30cm and 38cm dominated the catch, with a very clear modal class at 36cm (mean length and weight of 35cm and 481g).

2.2.24. Witch flounder Div. 3O

Information on length composition of the witch flounder catches in Div. 3O is available for April, June and July, and from October to December (Table XXX-A, Fig. 25A), from 91m to 710m depth.

Lengths between 34cm and 40cm dominated the catch, with modal classes at 36cm and 38cm (mean length and weight of 38cm and 588g).

2.2.25. White hake Div. 3N

Information on length composition of the white hake catches in Div. 3N is available only for October (Table XXXI, no figure), from 438m to 519m depth.

Because sampling data is based on a very small number of observations (1 sample, 26 fish measured) are no comments.

2.2.26. White hake Div. 3O

Information on length composition of the white hake catches in Div. 3O is available from April to July (except March) and from October to December (Table XXXII-A, Fig. 26A), from 161m to 750m depth.

Lengths between 40cm and 47cm and at 49cm and 50 cm dominated the catch, with modal classes at 44cm and 46cm (mean length and weight of 46cm and 1162g).

2.2.27. Thorny skate Div. 3L

Information on length composition of the thorny skate catches in Div. 3L is available from January to April and for October (Table XXXIII, Fig. 27), from 808m to 1557m depth.

Lengths at 36cm, 38cm and 40cm dominated the catch, with a modal class at 40cm (mean length of 37cm).

2.2.28. Thorny skate Div. 3M

Information on length composition of the thorny skate catches in Div. 3M is available for January, April and from July to October, except September (Table XXXIV, Fig. 28), from 170m to 1180m depth.

Lengths at 33cm, 35cm and 36cm dominated the catch, with the modal classes at these values (mean length of 36cm).

2.2.29. Thorny skate Div. 3N

Information on length composition of the thorny skate catches in Div. 3N is available for July, October and November (Table XXXV-A, Fig. 29A), from 62m to 534m depth.

Lengths at 33cm, 35cm, 36cm, 39cm and 40cm dominated the catch, with a modal class at 39cm (mean length of 37cm).

2.2.30. Thorny skate Div. 3O

Information on length composition of the thorny skate catches in Div. 3O is available for April, June and July and from October to December (Table XXXVI-A, Fig. 30A), from 91m to 560m depth.

Lengths at 39cm and 40cm dominated the catch, with a clear modal class at 40 cm (mean length of 37cm).

2.2.31. Spinytail skate Div. 3L

Information on length composition of the spinytail skate catches in Div. 3L is available from January to April and for October (Table XXXVII, Fig. 31), from 808m to 1557m depth.

The lengths range was from 17cm till 80cm (mean length of 44cm).

2.2.32. Spinytail skate Div. 3M

Information on length composition of the spinytail skate catches in Div. 3M is available for April and from July to October, except September (Table XXXVIII, Fig. 32), from 333m to 1180m depth.

The most abundant length classes are at 40cm, 44cm, 46cm, 47cm, 48cm, 51cm, 54cm and 56cm (mean length of 51cm).

2.2.33. Spinytail skate Div. 3N

Information on length composition of the spinytail skate catches in Div. 3N is available for July and October (Table XXXIX, no figure), from 431m to 748m depth.

Because sampling data is based on a very small number of observations (4 samples, 37 fish measured) are no comments about class abundance (mean length of 49cm).

2.2.34. Spinytail skate Div. 3O

Information on length composition of the spinytail skate catches in Div. 3O is available only for October (Table XL, no figure), from 263m to 396m depth.

Because sampling data is based on a very small number of observations (1 sample, 7 fish measured) are no comments about class abundance (mean length of 45cm).

2.2.35. Monkfish Div. 3N

Information on length composition of the monkfish catches in Div. 3N is available only for November (Table XLI-A, no figure), from 283m to 309m depth.

Because sampling data is based on a very small number of observations (1 sample, 17 fish measured) are no comments about class abundance (mean length and weight of 63cm and 6130g)

2.2.36. Monkfish Div. 3O

Information on length composition of the monkfish catches in Div. 3O is available for June and July and from October to December (Table XLII-A, Fig. 33A), from 129m to 620m depth.

The most abundant length classes are at 44cm, 49cm, 52cm and 55cm (mean length and weight of 55cm and 4318g).

3. Acknowledgements

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4. References

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TABLE I-A : PORTUGUESE NOMINAL TRAWL CATCHES (mt) IN NAFO AREA, 2006.

SPECIES	DIVISION						SUBAREA 3	TOTAL
	1F	2J	3L	3M	3N	3O	2006	2006
Cod				50.8	10.7	115	176.5	176.5
Redfish	1349.5		23.4	2593.4	2.7	5182.9	7802.4	9151.9
American plaice			36.5	35.5	45.8	243.6	361.4	361.4
Yellowtail flounder					75.6	118.8	194.4	194.4
Witch flounder			7.4	4.9	7.5	117.4	137.2	137.2
Greenland halibut			1902.2	356.4	50.6	18.2	2327.4	2327.4
Atlantic halibut			1.2	11.5	2.5	14.3	29.5	29.5
Roughhead grenadier			73.3	27.6	36.5	0.6	138	138
Anarhichas spp.			5	20.9	0.9	2.8	29.6	29.6
Hadocck						0.2	0.2	0.2
Pollock								
White hake					0.3	95.3	95.6	95.6
Red hake			0.5	0.5	0.4		1.4	1.4
Capelin								
Skates			38.5	36.6	535.6	392.6	1003.3	1003.3
Monkfish					0.5	24.6	25.1	25.1
Squid			0.1	4.1		13.6	17.8	17.8
Shrimp								
Unidentified			0.1	0.3		0.5	0.9	0.9
TOTAL	1349.5		2088.2	3142.5	769.6	6340.4	12340.7	13690.2

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

SPECIES / YEAR	2006	2005	2004	2003	2002	2001	2000	1999	1998	1997
Cod	177	104	280	677	488	357	193	327	549	1546
Redfish	7802	7337	5969	7710	6344	5324	5743	6081	2368	1125
American plaice	361	372	512	901	631	633	402	719	357	389
Yellowtail flounder	194	188	69	287	122	351	153	426	85	
Witch flounder	137	150	588	501	433	579	228	508	381	347
Greenland halibut	2327	2256	1881	4611	4319	5026	4769	3995	3242	3343
Atlantic halibut	30	19	60	89	46	44	29	51	30	17
Roughhead grenadier(1)	138	263	380	292	508	610	396	1299	1089	762
Anarhichas spp.	30	31	46	106	87	141	61	549	140	185
Hadocck	0.2	6	23	131	78	23	13	10	6	39
Pollock			4	115						
White hake (2)	96	156	1265	3919	1969	273	41	77	18	56
Red hake	1	18	12	2						
Capelin										
Skates	1003	575	1543	1816	1361	880	666	2168	1105	904
Monkfish	25	5	74	156						
Squid	18		11						1	
Shrimp			50		15	420	289	227	203	170
Unidentified	1	3	11	13	43	41	3	117	40	116
TOTAL	12341	11483	12776	21324	16443	14701	12985	16554	9614	9000

TABLE I - B: cont.

SPECIES / YEAR	1996	1995	1994	1993	1992	1991	1990	1989	1988
Cod	1318	1353	2636	3651	5984	13357	15138	24129	12931
Redfish	2152	2590	8609	9828	6581	12163	17810	18870	17072
American plaice	298	175	344	347	451	1288	714	1821	1791
Yellowtail flounder					1	10	11	5	
Witch flounder	236	375	573	289	849	1982	2254	16	12
Greenland halibut	3308	1814	5967	8805	10539	13961	11170	3614	4194
Atlantic halibut	12	18	45	53	81	228	91		
Roughhead grenadier(1)	784	1402	2223	1969	2000	4486	3211	290	914
Anarhichas spp.	122	1401	3219	2302	1696	2843	1940		
Hadocck		2	10	10	166	83	17		
Pollock			13	41	28	421	11		
White hake (2)	124	230	267	366	466	1009	467		
Red hake									
Capelin							77		
Skates	788	2068	6238	7626	7017	23301	13569	663	1097
Monkfish		2		8	37	10	2		
Squid	3								
Shrimp									
Unidentified	22	14	12	238	325	174	852		
TOTAL	9167	11441	30156	35532	36220	75314	67334	49408	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 2006.

MONTH	DIVISION										TOTAL		MONTH
	1F	2J	3L		3M		3N		3O		SUBAREA 3		
	DAYS	DAYS	DAYS	HOURS	DAYS	HOURS	DAYS	HOURS	DAYS	HOURS	DAYS	HOURS	
JAN.			47	722	2	18	2	16	52	467	103	1223	JAN.
FEB.			54	820			1	8			55	828	FEB.
MAR.			90	1502	15	113			1	9	106	1623	MAR.
APR.			65	1086	39	294	1	8	5	45	110	1433	APR.
MAY			57	953	18	162	12	98	29	354	116	1566	MAY
JUN.			8	134	26	234	5	41	42	648	81	1056	JUN.
JUL.	23		3	50	109	1089	9	74	36	424	157	1637	JUL.
AUG.	107		27	453	102	1238	4	21	34	526	167	2238	AUG.
SEP.			15	246	104	1201			32	495	151	1942	SEP.
OCT.	6		19	143	33	367	17	75	116	1946	185	2530	OCT.
NOV.			23	173	6	67	40	456	128	2064	197	2760	NOV.
DEC.							15	191	42	638	57	830	DEC.
TOTAL	136		408	6281	454	4782	106	988	517	7614	1485	19666	TOTAL

Note: Fishing hours and number of nets estimated from their monthly rates to fishing days observed in the trawlers and gillnetters sampled by the IPIMAR.

Monthly effort of gillnetters is given by the sum of nets per fishing day

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

YEAR	GEAR				YEAR
	OT		GNS		
	DAYS	HOURS	DAYS	NETS	
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 2006.

DIVISION	TARGET SPECIES	MONTH	DEPTH RANGE (m)		CPUE (ton/hour)	MAIN BYCATCH		WITCH FLOUNDER		TOTAL BYCATCH (%)
			MIN.	MAX.		SPECIES	%	BYCATCH (%)		
3M	RED	APR	289	813	0.045	GHL	39.5	0.4	60.8	
3M	RED	JUL	170	530	1.722	GHL	2.7	0.1	5.3	
3M	RED	AUG	208	840	1.129	GHL	4.2	0.1	7.7	
3M	RED	SEP	229	334	0.760	CAT	3.2	0.0	5.0	
3M	RED	OCT	220	524	0.818	GHL	1.9	0.1	5.8	
3O	RED	APR	327	528	0.553	COD	14.8	11.0	39.6	
3O	RED	JUN	219	568	1.152	SKA	1.0	0.1	2.4	
3O	RED	JUL	107	630	1.342	SKA	1.2	0.1	3.5	
3O	RED	OCT	104	698	0.554	WIT	4.1	4.1	14.3	
3O	RED	NOV	107	750	0.677	WIT	6.2	6.2	18.6	
3O	RED	DEC	313	371	0.102	SKA	32.8	3.8	74.6	
3L	GHL	JAN	898	1513	0.646	RHG	3.3	0.3	7.0	
3L	GHL	FEB	808	1432	0.569	RHG	3.5	0.2	7.9	
3L	GHL	MAR	1061	1557	0.667	RHG	3.8	0.1	7.3	
3L	GHL	APR	645	1500	0.628	RHG	4.2	0.2	9.1	
3L	GHL	AUG	649	1006	0.359	CAT	4.5	0.3	10.4	
3L	GHL	SEP	644	991	0.292	CAT	10.3	0.1	18.1	
3L	GHL	OCT	1238	1296	0.564	SKA	14.9	0.7	24.3	
3M	GHL	JAN	840	1151	0.233	RHG	6.8	1.0	17.0	
3M	GHL	FEB	863	964	0.302	RHG	10.4	0.3	21.4	
3M	GHL	APR	798	1180	0.249	RED	10.5	0.3	22.0	
3M	GHL	SEP	711	1077	0.200	CAT	10.4	0.0	20.7	
3M	SKA	APR	289	406	0.018	RED	45.2	0.0	67.1	
3N	SKA	JUL	82	91	0.106	PLA	22.8	11.4	67.6	
3N	SKA	OCT	53	162	0.307	PLA	45.1	1.0	49.3	
3N	SKA	NOV	40	309	0.298	PLA	24.8	0.0	35.3	
3N	SKA	DEC	57	66	0.580	PLA	20.6	0.0	25.5	
3O	SKA	NOV	89	293	0.357	PLA	12.4	11.3	36.5	
3O	SKA	DEC	81	520	0.619	PLA	11.0	7.2	30.5	

TABLE IV - A: GREENLAND HALIBUT TRAWL CATCH RATES, 1988-2006: 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	0.390	0.079	40.8							0.401	0.093	46.4	1988
1989	0.366	0.047	38.5							0.362	0.057	46.9	1989
1990	0.327	0.035	36.6	0.234			0.175			0.320	0.034	40.3	1990
1991	0.173	0.026	33.5				0.168	0.030	31.3	0.168	0.018	31.1	1991
1992	0.104	0.032	97.3				0.213	0.025	40.4	0.166	0.023	66.0	1992
1993	0.080	0.043	75.0				0.170	0.018	36.8	0.142	0.019	49.7	1993
1994	0.095	0.033	48.7				0.144	0.021	34.9	0.130	0.016	34.5	1994
1995	0.155	0.024	44.7	0.165	0.009	12.9	0.148	0.021	38.1	0.159	0.014	40.4	1995
1996	0.211	0.022	38.2	0.199	0.016	24.8	0.182	0.018	26.4	0.190	0.009	26.6	1996
1997	0.222	0.019	28.5	0.260	0.029	31.3	0.164	0.009	7.3	0.214	0.017	35.6	1997
1998	0.257	0.020	28.8	0.190	0.028	51.2	0.181	0.014	25.5	0.222	0.010	29.8	1998
1999	0.297	0.024	25.8	0.305	0.025	24.6	0.228	0.019	25.1	0.278	0.018	35.1	1999
2000	0.300	0.023	20.7	0.303	0.022	16.5	0.309	0.042	27.3	0.296	0.019	25.4	2000
2001	0.241	0.030	32.6	0.227	0.011	12.7	0.213	0.013	14.1	0.224	0.013	24.5	2001
2002	0.244	0.015	20.4	0.213	0.019	29.4	0.277	0.034	24.2	0.233	0.013	28.9	2002
2003	0.248	0.025	32.0	0.208	0.025	34.4	0.221	0.024	26.4	0.226	0.015	32.8	2003
2004	0.146	0.011	21.7	0.108	0.020	55.5	0.154	0.011	19.5	0.139	0.010	37.5	2004
2005	0.252	0.018	10.2	0.239	0.060	35.4				0.245	0.021	17.5	2005
2006	0.305	0.004	1.9	0.260						0.274	0.026	16.2	2006

TABLE IV - B: GREENLAND HALIBUT TRAWL CATCH RATES, 1988-2006: mean cpue's by division corrected for the year, month and vessel of each observation.

	CPUE	ST.ERROR	C.V.	
3L	0.239	0.007	36.7	3L
3M	0.216	0.008	33.5	3M
3N	0.194	0.006	32.3	3N
3LMN	0.218	0.004	37.9	3LMN

TABLE V: Intensity of the trawl sampling during 2006 by species, division and month.

SPECIES	DIV.	MONTH	N° OF SAMPLES	N° FISH MEASURED	SAMPLING WEIGHT(Kg)	OTOLITHS	
						N°	LENGTH RANGE (cm)
COD	3M	APR	6	924	2101	54	48 - 90
COD	3M	JUL	11	124	324	-	-
COD	3M	AUG	29	454	982	49	37 - 89
COD	3M	OCT	5	43	80	-	-
COD	3N	JUL	2	28	106	-	-
COD	3N	OCT	5	95	97	-	-
COD	3N	NOV	12	1157	1598	-	-
COD	3N	DEC	4	237	460	-	-
COD	3O	APR	3	141	214	-	-
COD	3O	JUN	3	26	30	-	-
COD	3O	JUL	17	246	400	13	36 - 72
COD	3O	OCT	24	366	342	-	-
COD	3O	NOV	23	575	567	-	-
COD	3O	DEC	7	101	159	-	-
REDFISH (S. mentella)	3L	FEB	8	137	57	-	-
REDFISH (S. mentella)	3L	MAR	2	48	18	-	-
REDFISH (S. mentella)	3L	APR	2	43	17	-	-
REDFISH (S. mentella)	3L	AUG	1	80	17	-	-
REDFISH (S. mentella)	3M	FEB	1	41	16	-	-
REDFISH (S. mentella)	3M	APR	6	1060	221	-	-
REDFISH (S. mentella)	3M	JUL	13	4229	943	64	19 - 39
REDFISH (S. mentella)	3M	AUG	31	10143	2052	230	12 - 48
REDFISH (S. mentella)	3M	SEP	32	2560	1053	278	18 - 53
REDFISH (S. mentella)	3M	OCT	17	2148	770	152	18 - 49
REDFISH (S. mentella)	3N	JUL	1	290	91	-	-
REDFISH (S. mentella)	3N	OCT	3	743	211	-	-
REDFISH (S. mentella)	3N	NOV	4	1531	323	-	-
REDFISH (S. mentella)	3N	DEC	3	1003	220	-	-
REDFISH (S. mentella)	3O	APR	3	596	201	67	19 - 37
REDFISH (S. mentella)	3O	JUN	3	710	139	-	-
REDFISH (S. mentella)	3O	JUL	17	6133	1033	64	11 - 34
REDFISH (S. mentella)	3O	OCT	48	7517	1686	150	17 - 37
REDFISH (S. mentella)	3O	NOV	39	6745	1310	131	17 - 31
REDFISH (S. mentella)	3O	DEC	7	728	142	-	-
REDFISH (S. marinus)	3M	APR	1	55	21	-	-
REDFISH (S. marinus)	3M	JUL	3	333	92	-	-
REDFISH (S. marinus)	3M	AUG	5	321	81	-	-
REDFISH (S. marinus)	3M	SEP	12	960	347	132	18 - 47
REDFISH (S. marinus)	3M	OCT	2	117	27	-	-
AMERICAN PLAICE	3L	JAN	2	410	229	-	-
AMERICAN PLAICE	3L	FEB	9	138	75	-	-
AMERICAN PLAICE	3L	MAR	22	395	209	-	-
AMERICAN PLAICE	3L	APR	11	313	161	-	-
AMERICAN PLAICE	3M	JAN	2	55	35	-	-
AMERICAN PLAICE	3N	JUL	2	394	249	-	-
AMERICAN PLAICE	3N	OCT	3	609	218	-	-
AMERICAN PLAICE	3N	NOV	12	2089	1524	-	-
AMERICAN PLAICE	3N	DEC	4	637	655	-	-
AMERICAN PLAICE	3O	APR	3	169	64	-	-
AMERICAN PLAICE	3O	JUN	3	48	27	-	-
AMERICAN PLAICE	3O	JUL	17	414	208	-	-
AMERICAN PLAICE	3O	OCT	13	869	504	-	-
AMERICAN PLAICE	3O	NOV	24	3490	2339	55	25 - 54
AMERICAN PLAICE	3O	DEC	8	919	851	-	-

TABLE V: count.

SPECIES	DIV.	MONTH	N° OF SAMPLES	N° FISH MEASURED	SAMPLING WEIGHT(Kg)	OTOLITHS	
						N°	LENGTH RANGE (cm)
YELLOWTAIL FLOUNDER	3N	JUL	2	146	77	-	-
YELLOWTAIL FLOUNDER	3N	OCT	1	29	17	-	-
YELLOWTAIL FLOUNDER	3N	NOV	10	1175	517	-	-
YELLOWTAIL FLOUNDER	3N	DEC	4	384	165	-	-
YELLOWTAIL FLOUNDER	3O	JUL	5	99	35	-	-
YELLOWTAIL FLOUNDER	3O	NOV	1	182	67	-	-
GREENLAND HALIBUT	3L	JAN	29	5646	4146	-	-
GREENLAND HALIBUT	3L	FEB	16	3555	2763	114	29 - 88
GREENLAND HALIBUT	3L	MAR	30	8958	7405	149	30 - 90
GREENLAND HALIBUT	3L	APR	11	2906	2540	118	30 - 77
GREENLAND HALIBUT	3L	AUG	22	1759	1600	157	29 - 70
GREENLAND HALIBUT	3L	SEP	6	480	417	115	35 - 71
GREENLAND HALIBUT	3L	OCT	1	185	132	-	-
GREENLAND HALIBUT	3M	FEB	1	176	139	-	-
GREENLAND HALIBUT	3M	APR	3	643	522	63	34 - 74
GREENLAND HALIBUT	3M	JUL	12	1059	913	-	-
GREENLAND HALIBUT	3M	AUG	29	2861	2290	-	-
GREENLAND HALIBUT	3M	SEP	4	320	365	111	39 - 67
GREENLAND HALIBUT	3M	OCT	5	365	340	-	-
GREENLAND HALIBUT	3N	JUL	1	73	42	-	-
GREENLAND HALIBUT	3N	OCT	2	140	89	-	-
GREENLAND HALIBUT	3O	OCT	22	1421	1086	-	-
GREENLAND HALIBUT	3O	NOV	22	1222	830	87	27 - 53
GREENLAND HALIBUT	3O	DEC	2	75	61	-	-
ROUGHHEAD GRENADIER	3L	JAN	29	4473	1904	-	-
ROUGHHEAD GRENADIER	3L	FEB	16	3227	1373	117	7 - 30.5
ROUGHHEAD GRENADIER	3L	MAR	30	7140	3300	125	6 - 34.5
ROUGHHEAD GRENADIER	3L	APR	11	2637	1099	66	6.5 - 28
ROUGHHEAD GRENADIER	3L	AUG	16	1280	643	116	11 - 27
ROUGHHEAD GRENADIER	3L	SEP	4	320	183	80	13 - 29
ROUGHHEAD GRENADIER	3L	OCT	1	106	57	-	-
ROUGHHEAD GRENADIER	3M	FEB	1	239	79	-	-
ROUGHHEAD GRENADIER	3M	APR	2	444	186	-	-
WITCH FLOUNDER	3L	JAN	18	755	255	-	-
WITCH FLOUNDER	3L	FEB	12	307	108	-	-
WITCH FLOUNDER	3L	MAR	28	465	149	-	-
WITCH FLOUNDER	3L	APR	11	181	60	-	-
WITCH FLOUNDER	3L	AUG	1	80	50	-	-
WITCH FLOUNDER	3L	OCT	1	53	17	-	-
WITCH FLOUNDER	3M	JUL	13	249	90	-	-
WITCH FLOUNDER	3M	AUG	29	482	152	-	-
WITCH FLOUNDER	3M	OCT	5	65	23	-	-
WITCH FLOUNDER	3N	JUL	1	60	21	-	-
WITCH FLOUNDER	3N	OCT	4	423	121	-	-
WITCH FLOUNDER	3N	NOV	2	245	76	-	-
WITCH FLOUNDER	3O	APR	3	363	141	-	-
WITCH FLOUNDER	3O	JUN	3	78	19	-	-
WITCH FLOUNDER	3O	JUL	17	343	100	-	-
WITCH FLOUNDER	3O	OCT	48	4162	1843	-	-
WITCH FLOUNDER	3O	NOV	36	4028	1703	-	-
WITCH FLOUNDER	3O	DEC	8	410	183	-	-

TABLE V: count.

SPECIES	DIV.	MONTH	N° OF SAMPLES	N° FISH MEASURED	SAMPLING WEIGHT(Kg)	OTOLITHS	
						N°	LENGTH RANGE (cm)
WHITE HAKE	3N	OCT	1	26	22	-	-
WHITE HAKE	3O	APR	2	82	91	-	-
WHITE HAKE	3O	JUN	1	8	10	-	-
WHITE HAKE	3O	JUL	8	205	294	-	-
WHITE HAKE	3O	OCT	24	958	920	-	-
WHITE HAKE	3O	NOV	23	1025	991	-	-
WHITE HAKE	3O	DEC	8	220	337	-	-
THORNY SKATE	3L	JAN	28	409	1306	-	-
THORNY SKATE	3L	FEB	15	336	1069	-	-
THORNY SKATE	3L	MAR	30	688	2182	-	-
THORNY SKATE	3L	APR	9	207	644	-	-
THORNY SKATE	3L	OCT	1	20	66	-	-
THORNY SKATE	3M	APR	4	93	321	-	-
THORNY SKATE	3M	JUL	7	110	303	-	-
THORNY SKATE	3M	AUG	14	269	751	-	-
THORNY SKATE	3M	OCT	3	41	133	-	-
THORNY SKATE	3N	JUL	1	38	145	-	-
THORNY SKATE	3N	OCT	6	404	1302	-	-
THORNY SKATE	3N	NOV	12	856	2790	-	-
THORNY SKATE	3N	DEC	4	269	870	-	-
THORNY SKATE	3O	APR	2	82	231	-	-
THORNY SKATE	3O	JUN	1	13	38	-	-
THORNY SKATE	3O	JUL	7	115	362	-	-
THORNY SKATE	3O	OCT	12	414	1388	-	-
THORNY SKATE	3O	NOV	16	1493	4813	-	-
THORNY SKATE	3O	DEC	4	352	1221	-	-
SPINYTAIL SKATE	3L	JAN	27	424	1464	-	-
SPINYTAIL SKATE	3L	FEB	15	148	570	-	-
SPINYTAIL SKATE	3L	MAR	30	292	1111	-	-
SPINYTAIL SKATE	3L	APR	9	87	294	-	-
SPINYTAIL SKATE	3L	OCT	1	13	78	-	-
SPINYTAIL SKATE	3M	APR	2	28	92	-	-
SPINYTAIL SKATE	3M	JUL	6	65	387	-	-
SPINYTAIL SKATE	3M	AUG	13	167	899	-	-
SPINYTAIL SKATE	3M	OCT	2	16	89	-	-
SPINYTAIL SKATE	3N	JUL	1	9	55	-	-
SPINYTAIL SKATE	3N	OCT	3	28	124	-	-
SPINYTAIL SKATE	3O	OCT	1	7	30	-	-
MONKFISH	3N	NOV	2	31	158	-	-
MONKFISH	3O	JUN	1	9	38	-	-
MONKFISH	3O	JUL	8	73	327	-	-
MONKFISH	3O	OCT	12	159	565	-	-
MONKFISH	3O	NOV	11	182	777	-	-
MONKFISH	3O	DEC	4	51	262	-	-

TABLE VI: Length-weight relationship by species, stock and sex in 2006.

Species	Stock	Sex	a	b	n	r^2	Length interval (cm)
COD	3M	T	0.0161	2.9146	103	0.983	37-90
GHL	2J3KLMNO	F	0.0013	3.5107	1629	0.987	27-90
GHL	2J3KLMNO	M	0.0067	3.0740	1694	0.992	27-71
GHL	2J3KLMNO	T	0.0014	3.4912	3323	0.988	27-90
WIT	3NO	F	0.0289	2.7191	1450	0.970	29-47
WIT	3NO	M	0.0241	2.7670	1430	0.971	29-47
WIT	3NO	T	0.0267	2.7405	2880	0.970	29-47
RHG	3LMNO	F	0.2993	2.7393	999	0.982	6.5-34.5
RHG	3LMNO	M	0.9862	2.2532	906	0.984	6-28
RHG	3LMNO	T	0.3719	2.6583	1905	0.980	6-34.5
REB	3M	F	0.0103	3.0991	1748	0.993	12-53
REB	3M	M	0.0089	3.1368	2017	0.994	12-50
REB	3M	T	0.0096	3.1176	3765	0.994	12-53
REB	3O	F	0.0283	2.7931	1722	0.986	14-37
REB	3O	M	0.0480	2.6248	1767	0.987	11-37
REB	3O	T	0.0443	2.6541	3491	0.987	11-37
REG	3M	F	0.0067	3.2215	472	0.982	18-47
REG	3M	M	0.0039	3.3547	488	0.980	19-45
REG	3M	T	0.0051	3.2913	960	0.979	18-47

TABLE VII: COD, DIV. 3M, 2006: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	APR	JUL	AUG	OCT	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
33			4.9			3.8		0.1	33
36	0.6		15.5		0.6	11.8		0.8	36
39	2.5	23.6	56.2	47.3	2.5	48.6	47.3	3.6	39
42	23.8	21.4	116.6	64.5	23.8	94.4	64.5	25.4	42
45	44.6	30.4	77.8	31.5	44.6	66.7	31.5	45.1	45
48	98.3	74.8	78.5	111.8	98.3	77.6	111.8	97.9	48
51	128.7	74.9	79.0	107.3	128.7	78.0	107.3	127.6	51
54	153.7	110.3	102.0	239.7	153.7	103.9	239.7	152.7	54
57	167.8	117.8	80.4	106.3	167.8	89.2	106.3	166.0	57
60	164.9	84.3	98.1	116.6	164.9	94.8	116.6	163.4	60
63	96.1	159.2	102.2	63.3	96.1	115.5	63.3	96.5	63
66	33.6	119.1	74.8	58.7	33.6	85.1	58.7	34.8	66
69	27.6	63.7	52.6	26.5	27.6	55.2	26.5	28.2	69
72	20.5	65.2	34.9	26.5	20.5	41.9	26.5	20.9	72
75	11.5	27.8	8.2		11.5	12.8		11.5	75
78	9.6	27.5	10.7		9.6	14.6		9.7	78
81	11.8		3.9		11.8	3.0		11.6	81
84	1.4				1.4			1.4	84
87	1.4		3.9		1.4	3.0		1.4	87
90	1.4				1.4			1.4	90
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	6	11	29	5	6	40	5	51	
SAMPLING WEIGHT(kg)	2101	324	982	80	2101	1307	80	3488	
No. F.MEASURED	924	124	454	43	924	578	43	1545	
MEAN LENGTH(cm)	58.3	61.0	56.2	55.9	58.3	57.3	55.9	58.2	
MEAN WEIGHT (g)	2363	2727	2218	2099	2363	2337	2099	2362	
DEPTH RANGE (m)	313/539	170/516	208/840	288/523	313/539	170/840	288/523	170/840	

TABLE VIII-A: COD, DIV. 3N, 2006: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	JUL	OCT	NOV	DEC	3rd Q.	4th Q.	YEAR	LENGTH GROUP
21			1.8			1.5	1.5	21
24		34.7	12.7			10.5	10.5	24
27		23.1	10.1			8.4	8.4	27
30		57.5	33.1			27.3	27.3	30
33		102.3	29.5	14.4		27.0	27.0	33
36		78.2	79.5	52.9		74.9	74.8	36
39		155.9	68.5	110.6		76.1	76.1	39
42		156.9	113.0	144.2		118.6	118.5	42
45		108.0	128.0	67.3		117.3	117.2	45
48	43.5	185.5	129.6	57.7	43.5	117.2	117.1	48
51		12.6	165.7	81.7		150.6	150.5	51
54	130.4	66.6	74.7	245.2	130.4	104.6	104.6	54
57	87.0	9.3	59.0	96.2	87.0	65.4	65.4	57
60	130.4		59.0	48.1	130.4	56.9	56.9	60
63	87.0	9.3	11.6	28.8	87.0	14.6	14.6	63
66	130.4		9.0	14.4	130.4	9.9	10.0	66
69	43.5		5.7	14.4	43.5	7.2	7.2	69
72	43.5		5.7	4.8	43.5	5.5	5.5	72
75	130.4		1.3		130.4	1.0	1.1	75
78	43.5		2.5	4.8	43.5	2.9	2.9	78
81	43.5			9.6	43.5	1.7	1.7	81
84	87.0			4.8	87.0	0.8	0.9	84
TOTAL	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	4	5	1	1	10	11	
SAMPLING WEIGHT (kg)	85	79	1008	313	85	1399	1485	
No. F. MEASURED	23	90	813	208	23	1111	1134	
MEAN LENGTH (cm)	67.6	42.7	48.1	51.5	67.6	48.7	48.7	
MEAN WEIGHT (g)	3848	935	1378	1694	3848	1432	1433	
DEPTH RANGE (m)	62/69	92/534	96/309	83/85	62/69	83/534	62/534	

TABLE VIII-B: COD, DIV. 3N, 2006: length composition (0/000) of the 280mm trawl catches.

LENGTH GROUP	JUL	OCT	NOV	DEC	3rd Q.	4th Q.	YEAR	LENGTH GROUP
33			13.6			13.2	13.2	33
36			56.2			54.4	54.3	36
39			65.6			63.5	63.5	39
42			139.5			135.1	135.0	42
45			117.9	42.3		115.5	115.5	45
48			100.8	157.2		102.5	102.4	48
51	200.0		102.8		200.0	99.6	99.7	51
54			100.5	96.2		100.3	100.3	54
57		200.0	143.2	72.6		141.0	140.9	57
60	200.0		102.6	66.0	200.0	101.4	101.5	60
63	200.0	200.0	26.2	60.5	200.0	27.3	27.5	63
66		200.0	13.6	66.0		15.4	15.4	66
69			2.2	42.3		3.4	3.4	69
72			4.5	30.2		5.3	5.3	72
75		200.0	3.3	66.0		5.4	5.4	75
78	200.0	200.0	0.7		200.0	0.8	0.9	78
81			6.0	138.5		10.1	10.1	81
84	200.0		0.7	30.2	200.0	1.6	1.7	84
87								87
90								90
93				66.0		2.0	2.0	93
96				30.2		0.9	0.9	96
99				35.7		1.1	1.1	99
TOTAL	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	1	7	3	1	11	12	
SAMPLING WEIGHT(kg)	21	19	590	147	21	756	776	
No. F.MEASURED	5	5	344	29	5	378	383	
MEAN LENGTH(cm)	68.7	69.3	51.4	68.8	68.7	51.9	52.0	
MEAN WEIGHT (g)	4153	4023	1656	4474	4153	1744	1746	
DEPTH RANGE (m)	82/91	53/54	43/76	43/66	82/91	43/76	43/91	

TABLE IX-A: COD, DIV. 3O, 2006: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	APR	JUN	JUL	OCT	NOV	DEC	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
21				2.5	3.6				2.9	1.6	21
24				9.5	4.2				5.7	3.2	24
27		23.5		26.4	24.0		0.5		22.7	12.8	27
30			4.3	36.4	36.9			4.3	33.4	18.9	30
33	42.8	68.9	12.7	60.2	74.5	83.3	43.3	12.7	70.4	56.3	33
36	85.6	90.7	25.4	89.7	116.5	41.7	85.7	25.4	100.5	89.8	36
39	177.9	97.2	67.9	144.8	164.1	41.7	176.2	67.9	146.5	152.1	39
42	166.2	92.4	92.2	188.2	212.2		164.6	92.2	184.9	170.9	42
45	99.1	127.3	129.3	155.0	150.9	166.7	99.7	129.3	153.8	131.9	45
48	80.8	97.2	135.7	157.3	112.4	250.0	81.1	135.7	140.2	117.9	48
51	164.0	213.2	130.3	88.8	52.3	83.3	165.0	130.3	67.7	108.3	51
54	104.0	68.9	101.6	21.0	20.0	41.7	103.3	101.6	22.3	58.0	54
57	35.1	51.9	86.9	12.8	19.6	125.0	35.5	86.9	26.7	34.1	57
60	29.7	23.5	61.2	2.5	8.8		29.5	61.2	5.8	18.5	60
63	2.7	45.3	46.2	2.5		166.7	3.6	46.2	15.8	13.3	63
66	4.1		51.9	1.2			4.0	51.9	0.4	5.3	66
69	1.4		22.9				1.3	22.9		2.1	69
72	5.4		27.1	1.2			5.3	27.1	0.4	4.1	72
75	1.4		4.5				1.3	4.5		0.8	75
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	3	3	17	24	15	1	6	17	40	63	
SAMPLING WEIGHT(kg)	214	30	400	342	398	35	244	400	775	1418	
No. F.MEASURED	141	26	246	366	446	24	167	246	836	1249	
MEAN LENGTH(cm)	47.0	47.6	52.8	43.7	43.0	51.0	47.0	52.8	44.0	45.7	
MEAN WEIGHT (g)	1243	1305	1811	986	930	1619	1244	1811	1012	1153	
DEPTH RANGE (m)	398/528	406/568	331/620	121/594	173/464	489/513	398/568	331/620	121/594	121/620	

TABLE IX-B: COD, DIV. 3O, 2006: length composition (0/000) of the 280mm trawl catches

LENGTH GROUP	NOV	DEC	4th Q. = YEAR	LENGTH GROUP
21	6.7		4.2	21
24				24
27	10.7		6.7	27
30	26.9	17.6	23.4	30
33	11.8	64.2	31.5	33
36	42.6	37.9	40.8	36
39	141.3	65.6	112.9	39
42	135.1	49.1	102.8	42
45	109.8	190.5	140.1	45
48	141.7	105.3	128.0	48
51	196.6	40.3	137.9	51
54	47.1	82.2	60.3	54
57	69.3	87.9	76.3	57
60	22.8	133.3	64.3	60
63	10.7	42.1	22.5	63
66	16.1	61.3	33.1	66
69	5.3	11.3	7.6	69
72				72
75	5.3	11.3	7.6	75
TOTAL	1000	1000	1000	
No. SAMPLES	8	6	14	
SAMPLING WEIGHT(kg)	169	124	293	
No. F.MEASURED	129	77	206	
MEAN LENGTH(cm)	48.0	51.6	49.3	
MEAN WEIGHT (g)	1339	1726	1484	
DEPTH RANGE (m)	89/217	81/186	81/217	

TABLE X: REDFISH (*S. mentella*), DIV. 3L, 2006: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	MAR	APR	AUG	1st Q.	2nd Q.	3rd Q.	YEAR	LENGTH GROUP
17				12.5			12.5	1.1	17
18									18
19				87.5			87.5	7.5	19
20				75.0			75.0	6.4	20
21	8.2	21.6	21.8	100.0	11.3	21.8	100.0	25.1	21
22	6.3		21.8	75.0	4.9	21.8	75.0	20.9	22
23	31.3	20.3	65.5	112.5	28.7	65.5	112.5	57.6	23
24	38.4	83.8	43.6	150.0	49.0	43.6	150.0	54.5	24
25	51.5	41.9	69.6	62.5	49.3	69.6	62.5	62.4	25
26	83.5	125.7	21.8	75.0	93.3	21.8	75.0	49.6	26
27	81.5	147.3	143.3	100.0	96.8	143.3	100.0	124.5	27
28	110.9	124.3	95.5	62.5	114.0	95.5	62.5	98.7	28
29	109.1	105.4	87.3	12.5	108.2	87.3	12.5	87.7	29
30	169.5	144.6	143.3	75.0	163.7	143.3	75.0	144.1	30
31	57.9	20.3	69.6		49.2	69.6		57.0	31
32	101.1	102.7	69.6		101.5	69.6		74.0	32
33	68.7	41.9	73.7		62.5	73.7		63.7	33
34	34.1	20.3	73.7		30.9	73.7		53.5	34
35	22.4				17.2			5.6	35
36	12.0				9.2			3.0	36
37	13.5				10.4			3.4	37
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	8	2	2	1	10	2	1	13	
SAMPLING WEIGHT(kg)	57	18	17	17	75	17	17	108	
No. F.MEASURED	137	48	43	80	185	43	80	308	
MEAN LENGTH(cm)	29.6	28.6	29.0	24.4	29.4	29.0	24.4	28.7	
MEAN WEIGHT (g)	380	340	359	221	371	359	221	351	
DEPTH RANGE (m)	1075/1410	1092/1375	838/997	693/718	1075/1410	838/997	693/718	693/1410	

TABLE XI: REDFISH (*S. mentella*), DIV. 3M, 2006: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	APR	JUL	AUG	SEP	OCT	1st Q.	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
10				1.1					0.7		0.6	10
11				2.9					1.8		1.6	11
12				6.2					3.8		3.5	12
13				5.0					3.1		2.8	13
14				6.4					4.0		3.6	14
15		3.9	1.2	6.5		4.9		3.9	4.4	4.9	4.5	15
16		31.2	4.0	17.5		13.0		31.2	12.0	13.0	12.2	16
17		75.7	7.4	20.5		26.2		75.7	14.9	26.2	16.2	17
18		72.0	16.6	26.5		31.0		72.0	21.3	31.0	22.4	18
19		76.9	42.3	50.6	1.0	56.1		76.9	43.8	56.1	45.0	19
20		67.4	65.3	96.8	1.5	86.9		67.4	79.2	86.9	79.7	20
21		82.3	102.0	142.0	2.2	118.0		82.3	117.9	118.0	117.7	21
22			123.0	148.0	170.8	2.9	161.1		123.0	149.4	161.1	22
23	24.4	99.1	155.5	146.7	1.6	138.6	24.4	99.1	136.5	138.6	136.4	23
24	73.2	142.8	162.8	109.4	23.9	87.0	73.2	142.8	117.5	87.0	115.2	24
25	24.4	98.7	102.4	69.4	62.7	62.7	24.4	98.7	78.5	62.7	77.3	25
26	97.6	56.4	51.9	35.2	83.3	31.3	97.6	56.4	44.3	31.3	43.4	26
27	146.3	32.2	36.4	24.3	81.3	33.1	146.3	32.2	32.8	33.1	32.9	27
28	146.3	4.9	37.3	21.7	85.7	22.6	146.3	4.9	31.9	22.6	31.0	28
29	73.2	9.5	22.4	15.0	91.5	17.2	73.2	9.5	23.9	17.2	23.3	29
30	170.7	8.3	14.6	9.0	110.5	19.5	170.7	8.3	19.6	19.5	19.5	30
31	97.6	6.7	9.3	5.3	100.3	15.6	97.6	6.7	14.8	15.6	14.8	31
32	24.4	1.0	7.3	3.9	91.3	11.2	24.4	1.0	12.6	11.2	12.4	32
33	73.2	1.8	5.5	2.3	74.1	9.0	73.2	1.8	9.6	9.0	9.5	33
34	24.4	3.1	2.2	1.3	60.6	12.0	24.4	3.1	6.8	12.0	7.2	34
35	24.4	0.6	4.2	1.3	44.6	9.3	24.4	0.6	6.0	9.3	6.2	35
36			1.2	1.0	42.9	6.0			4.8	6.0	4.8	36
37		1.2		0.3	10.8	7.3		1.2	1.2	7.3	1.7	37
38		0.9		0.4	7.9	6.0		0.9	0.9	6.0	1.3	38
39		0.2	0.3	0.05	3.9	1.4		0.2	0.5	1.4	0.5	39
40		0.2		0.02	4.3	2.3		0.2	0.4	2.3	0.5	40
41				0.1	3.2	3.9			0.4	3.9	0.6	41
42				0.2	1.2	2.6			0.3	2.6	0.4	42
43				0.2	2.2	1.8			0.3	1.8	0.4	43
44					1.6	0.6			0.1	0.6	0.2	44
45				0.1	0.4	0.6			0.1	0.6	0.1	45
46				0.1	0.8	0.4			0.1	0.4	0.2	46
47					0.5	0.2			0.04	0.2	0.1	47
48				0.03	0.2	0.2			0.03	0.2	0.04	48
49					0.2	0.1			0.02	0.1	0.03	49
50					0.2				0.02		0.01	50
51												51
52												52
53					0.5				0.04		0.04	53
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	6	13	31	32	17	1	6	76	17	100	
SAMPLING WEIGHT(kg)	16	221	943	2052	1053	770	16	221	4048	770	5055	
No. F.MEASURED	41	1060	4229	10143	2560	2148	41	1060	16932	2148	20181	
MEAN LENGTH(cm)	29.2	22.6	24.0	22.8	30.7	24.1	29.2	22.6	23.8	24.1	23.8	
MEAN WEIGHT (g)	363	171	203	175	436	221	363	171	206	221	207	
DEPTH RANGE (m)	863/964	289/1148	255/516	208/840	229/334	220/523	863/964	289/1148	208/840	220/523	208/1148	

TABLE XII: REDFISH (*S. mentella*), DIV. 3N, 2006: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	JUL	OCT	NOV	DEC	3rd Q.	4th Q.	YEAR	LENGTH GROUP
15		9.7	5.8	0.5		4.9	4.7	15
16	3.4	17.3	11.5	8.7	3.4	11.4	11.1	16
17	3.4	12.6	16.2	18.4	3.4	16.4	15.8	17
18	17.2	18.2	30.2	38.4	17.2	31.0	30.4	18
19	17.2	32.8	51.4	39.2	17.2	46.7	45.4	19
20	44.8	54.7	99.8	61.1	44.8	86.1	84.3	20
21	62.1	119.3	139.4	158.1	62.1	141.9	138.4	21
22	51.7	170.7	155.1	193.4	51.7	165.8	160.9	22
23	69.0	182.3	141.3	198.1	69.0	159.0	155.1	23
24	96.6	97.0	88.3	107.1	96.6	93.6	93.8	24
25	124.1	89.3	51.8	74.1	124.1	60.8	63.5	25
26	86.2	48.4	50.3	31.7	86.2	45.7	47.4	26
27	100.0	34.6	38.2	22.3	100.0	34.0	36.9	27
28	89.7	27.3	38.3	12.2	89.7	31.0	33.5	28
29	55.2	16.3	24.8	12.3	55.2	21.0	22.5	29
30	55.2	10.2	21.4	6.3	55.2	16.7	18.4	30
31	44.8	15.3	12.0	6.8	44.8	11.1	12.5	31
32	41.4	5.8	8.1	3.4	41.4	6.8	8.2	32
33	10.3	8.3	4.1	3.9	10.3	4.5	4.7	33
34	10.3	8.3	4.6	1.5	10.3	4.2	4.5	34
35	3.4	12.7	4.9		3.4	4.5	4.4	35
36	3.4	3.9	1.9	1.5	3.4	2.0	2.1	36
37	6.9	4.4		0.5	6.9	0.5	0.8	37
38		0.5	0.6	0.5		0.5	0.5	38
39								39
40	3.4				3.4			40
TOTAL	1000	1000	1000	1000	1000	1000	1000	

TABLE XIII-A: REDFISH (*S. mentella*), DIV. 3O, 2006: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	APR	JUN	JUL	OCT	NOV	DEC	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
11			0.2		0.1			0.2	0.1	0.1	11
12					0.7				0.3	0.2	12
13					1.6				0.8	0.5	13
14			0.2		1.7			0.2	0.9	0.7	14
15		9.3	4.2	6.4	4.1	0.8	8.0	4.2	5.2	5.1	15
16		10.4	14.1	13.3	7.8	5.4	8.9	14.1	10.5	11.4	16
17	1.0	40.4	23.6	19.2	13.0	15.3	35.0	23.6	16.1	19.1	17
18	1.8	48.3	50.1	29.7	19.6	24.8	41.9	50.1	24.6	32.4	18
19	10.8	61.6	101.0	48.3	56.3	54.5	54.6	101.0	52.3	65.6	19
20	24.6	79.8	155.5	90.3	96.5	86.6	72.2	155.5	93.4	109.1	20
21	32.7	138.3	187.1	126.3	130.6	95.8	123.7	187.1	128.2	143.9	21
22	95.6	178.9	170.0	168.3	151.2	119.2	167.4	170.0	159.3	162.6	22
23	97.4	146.8	115.8	134.1	139.1	202.2	140.0	115.8	137.1	131.5	23
24	112.5	117.1	70.5	98.2	106.2	115.8	116.5	70.5	102.4	94.5	24
25	63.3	70.8	44.0	58.2	72.8	51.1	69.8	44.0	65.5	59.9	25
26	83.2	40.5	20.7	47.5	70.9	49.1	46.4	20.7	59.3	48.2	26
27	39.9	20.2	14.2	35.5	38.6	70.4	22.9	14.2	37.4	30.4	27
28	100.4	8.9	14.1	33.7	26.0	40.0	21.6	14.1	29.9	25.2	28
29	62.3	4.2	8.1	29.0	11.6	4.2	12.3	8.1	20.1	16.4	29
30	30.4	6.5	4.3	19.6	44.6	23.3	9.8	4.3	32.2	23.5	30
31	51.4	10.3	1.0	18.9	4.7	26.3	16.0	1.0	11.8	9.1	31
32	39.1	3.8	0.5	7.3	1.3	4.6	8.7	0.5	4.2	3.5	32
33	46.9	1.9	0.4	13.7	0.6	9.5	8.1	0.4	7.1	5.3	33
34	53.7		0.4	0.8	0.4		7.4	0.4	0.6	0.9	34
35	24.7	1.9		0.7	0.05	1.2	5.0		0.4	0.5	35
36	13.2			0.5			1.8		0.3	0.3	36
37	11.2			0.1			1.5		0.03	0.1	37
38	2.8						0.4			0.02	38
39	1.0						0.1			0.01	39
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	3	3	17	48	39	3	6	17	90	113	
SAMPLING WEIGHT(kg)	201	139	1033	1686	1310	73	340	1033	3069	4442	
No. F.MEASURED	596	710	6133	7517	6745	339	1306	6133	14601	22040	
MEAN LENGTH(cm)	27.4	22.7	22.0	23.6	23.5	23.8	23.3	22.0	23.5	23.1	
MEAN WEIGHT (g)	310	180	165	203	198	207	198	165	200	191	
DEPTH RANGE (m)	382/528	400/568	331/620	121/684	173/750	313/520	382/568	331/620	121/750	121/750	

TABLE XIII-B: REDFISH (*S. mentella*), DIV. 3O, 2006: length composition (0/000) of the 280mm trawl catches.

LENGTH GROUP	DEC = YEAR	LENGTH GROUP
15	1.0	15
16	7.0	16
17	12.6	17
18	44.0	18
19	79.4	19
20	109.3	20
21	196.6	21
22	218.6	22
23	148.6	23
24	60.1	24
25	49.0	25
26	22.0	26
27	19.9	27
28	15.3	28
29	10.2	29
30	4.6	30
31	1.8	31
TOTAL	1000	
No. SAMPLES	4	
SAMPLING WEIGHT(kg)	69	
No. F.MEASURED	389	
MEAN LENGTH(cm)	22.4	
MEAN WEIGHT (g)	172	
DEPTH RANGE (m)	108/186	

TABLE XIV: REDFISH (*S. marinus*), DIV. 3M, 2006: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	APR	JUL	AUG	SEP	OCT	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
16					8.5			8.5	0.6	16
17					8.5			8.5	0.6	17
18		9.0		1.0	34.2		2.5	34.2	4.5	18
19		9.0	6.2	1.0	68.4		3.7	68.4	7.8	19
20		21.0	34.3	1.0	85.5		11.8	85.5	16.2	20
21	18.2	42.0	56.1	1.0	179.5	18.2	20.4	179.5	30.8	21
22		96.1	152.6		145.3		50.2	145.3	54.9	22
23	18.2	144.1	87.2	2.1	76.9	18.2	48.3	76.9	49.3	23
24	18.2	159.2	140.2	5.2	128.2	18.2	63.8	128.2	66.6	24
25	90.9	150.2	93.5	65.6	111.1	90.9	88.6	111.1	90.1	25
26	54.5	123.1	105.9	99.0	42.7	54.5	105.3	42.7	99.7	26
27	236.4	108.1	87.2	120.8	42.7	236.4	111.5	42.7	110.9	27
28	218.2	66.1	87.2	132.3	17.1	218.2	109.7	17.1	106.9	28
29	127.3	27.0	53.0	121.9	17.1	127.3	88.6	17.1	85.1	29
30	90.9	15.0	40.5	144.8	8.5	90.9	97.3	8.5	91.3	30
31	36.4	15.0	31.2	133.3		36.4	88.6		81.2	31
32	18.2	6.0	18.7	86.5	17.1	18.2	56.4	17.1	52.6	32
33	54.5	3.0	6.2	16.7		54.5	11.8		12.3	33
34		6.0		7.3	8.5		5.6	8.5	5.6	34
35	18.2			21.9		18.2	13.0		12.3	35
36				9.4			5.6		5.0	36
37				4.2			2.5		2.2	37
38				6.3			3.7		3.4	38
39				4.2			2.5		2.2	39
40				2.1			1.2		1.1	40
41										41
42				1.0			0.6		0.6	42
43				2.1			1.2		1.1	43
44				6.3			3.7		3.4	44
45				1.0			0.6		0.6	45
46				1.0			0.6		0.6	46
47				1.0			0.6		0.6	47
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	3	5	12	2	1	20	2	23	
SAMPLING WEIGHT(kg)	21	92	81	347	27	21	519	27	566	
No. F.MEASURED	55	333	321	960	117	55	1614	117	1786	
MEAN LENGTH(cm)	28.5	25.3	25.6	29.8	23.3	28.5	28.0	23.3	27.7	
MEAN WEIGHT (g)	316	218	231	375	171	316	314	171	305	
DEPTH RANGE (m)	344/406	170/319	232/331	229/315	288/316	344/406	170/331	288/316	170/406	

TABLE XV: AMERICAN PLAICE, DIV. 3L, 2006: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	JAN	FEB	MAR	APR	1st Q.	2nd Q.	YEAR	LENGTH GROUP
22	3.1				2.8		2.2	22
24	10.9			6.0	9.9	6.0	9.0	24
26	36.0		14.7	59.6	33.7	59.6	39.4	26
28	65.6	38.8	29.0	113.2	62.4	113.2	73.6	28
30	89.1	63.1	92.4	206.6	88.6	206.6	114.6	30
32	84.6	122.0	128.0	226.2	88.5	226.2	118.8	32
34	90.7	131.4	140.1	148.3	95.1	148.3	106.8	34
36	102.6	170.8	142.2	137.2	107.0	137.2	113.7	36
38	119.5	155.7	156.6	15.2	123.0	15.2	99.2	38
40	113.0	113.2	119.5	9.0	113.4	9.0	90.4	40
42	99.7	90.5	77.8	24.6	98.0	24.6	81.8	42
44	111.2	58.5	47.0	19.9	105.5	19.9	86.6	44
46	56.6	22.8	33.0	11.0	54.1	11.0	44.6	46
48	14.2	25.7	12.4	2.6	14.3	2.6	11.8	48
50	1.6	7.5	3.9	7.9	1.9	7.9	3.2	50
52	1.6		1.3	0.9	1.5	0.9	1.4	52
54			2.2	6.0	0.2	6.0	1.4	54
56				6.0		6.0	1.3	56
TOTAL	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	2	9	22	11	33	11	44	
SAMPLING WEIGHT(kg)	229	75	209	161	513	161	674	
No. F.MEASURED	410	138	395	313	943	313	1256	
MEAN LENGTH(cm)	37.8	38.0	37.5	33.9	37.8	33.9	37.0	
MEAN WEIGHT (g)	589	583	561	413	587	413	549	
DEPTH RANGE (m)	861/944	1072/1410	1061/1514	645/1423	861/1514	645/1423	645/1514	

TABLE XVI: AMERICAN PLAICE, DIV. 3M, 2006: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	JAN = YEAR	LENGTH GROUP
30	37.2	30
32	16.1	32
34	164.8	34
36	106.5	36
38	164.8	38
40	191.9	40
42	153.8	42
44	53.3	44
46	74.4	46
48	16.1	48
50	21.1	50
TOTAL	1000	
No. SAMPLES	2	
SAMPLING WEIGHT(kg)	35	
No. F.MEASURED	55	
MEAN LENGTH(cm)	40.1	
MEAN WEIGHT (g)	660	
DEPTH RANGE (m)	840/1151	

TABLE XVII-A: AMERICAN PLAICE, DIV. 3N, 2006: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	JUL	OCT	NOV	3rd Q.	4th Q.	YEAR	LENGTH GROUP
12		4.8			0.8	0.7	12
14		4.8			0.8	0.7	14
16		3.6			0.6	0.5	16
18		14.6	9.9		10.6	9.9	18
20		36.5	16.6		19.8	18.5	20
22		53.1	63.5		61.8	57.6	22
24	7.9	84.0	86.1	7.9	85.7	80.4	24
26	23.7	108.3	129.0	23.7	125.7	118.7	26
28	39.5	118.6	129.5	39.5	127.8	121.7	28
30	71.1	114.7	122.1	71.1	120.9	117.4	30
32	90.9	116.7	53.4	90.9	63.6	65.5	32
34	67.2	103.2	91.7	67.2	93.6	91.7	34
36	94.9	52.9	78.5	94.9	74.3	75.7	36
38	94.9	78.9	38.0	94.9	44.6	48.1	38
40	35.6	34.6	12.0	35.6	15.6	17.0	40
42	110.7	25.4	50.9	110.7	46.8	51.2	42
44	122.5	15.9	66.2	122.5	58.0	62.5	44
46	15.8	8.6	30.0	15.8	26.5	25.8	46
48	47.4	7.3	7.7	47.4	7.6	10.4	48
50	90.9	7.4	7.4	90.9	7.4	13.2	50
52	43.5	1.2	7.2	43.5	6.2	8.8	52
54	23.7	3.7	0.4	23.7	0.9	2.5	54
56	11.9	1.2		11.9	0.2	1.0	56
58	4.0			4.0		0.3	58
60							60
62	4.0			4.0		0.3	62
TOTAL	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	2	3	1	5	6	
SAMPLING WEIGHT(kg)	183	177	209	183	386	570	
No. F.MEASURED	253	567	491	253	1058	1311	
MEAN LENGTH(cm)	41.0	31.7	32.8	41.0	32.6	33.2	
MEAN WEIGHT (g)	788	361	405	788	398	425	
DEPTH RANGE (m)	62/69	92/221	96/309	62/69	92/309	62/309	

TABLE XVII-B : AMERICAN PLAICE, DIV. 3N, 2006: length composition (0/000) of the 280mm trawl catches.

LENGTH GROUP	JUL	OCT	NOV	DEC	3rd Q.	4th Q.	YEAR	LENGTH GROUP
20			3.4			1.1	1.1	20
22	7.1		1.4		7.1	0.5	0.5	22
24	21.3		4.4	0.3	21.3	1.7	1.9	24
26	14.2		22.3	3.7	14.2	9.9	9.9	26
28	35.5		42.5	1.9	35.5	15.3	15.6	28
30	85.1		55.8	22.0	85.1	33.2	33.7	30
32	99.3		103.3	26.6	99.3	52.0	52.5	32
34	198.6	47.6	85.9	49.2	198.6	61.3	62.8	34
36	227.0	23.8	115.6	139.7	227.0	131.6	132.7	36
38	141.8	47.6	105.6	145.4	141.8	132.2	132.3	38
40	70.9	214.3	46.7	40.1	70.9	42.4	42.7	40
42	70.9	95.2	69.6	37.5	70.9	48.1	48.4	42
44	14.2	166.7	41.2	33.3	14.2	36.0	35.8	44
46	7.1	95.2	24.9	57.0	7.1	46.4	46.0	46
48	7.1	119.0	54.6	90.8	7.1	78.8	78.0	48
50		23.8	73.2	128.2		109.9	108.7	50
52		71.4	55.3	96.0		82.5	81.6	52
54		23.8	34.3	55.9		48.8	48.2	54
56		71.4	36.0	35.6		35.8	35.4	56
58			13.4	18.8		17.0	16.8	58
60			6.3	10.4		9.0	8.9	60
62			2.4	1.8		2.0	2.0	62
64			1.7	0.9		1.2	1.2	64
66				4.9		3.3	3.2	66
TOTAL	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	1	9	4	1	14	15	
SAMPLING WEIGHT(kg)	65	41	1315	655	65	2011	2076	
No. F.MEASURED	141	42	1598	637	141	2277	2418	
MEAN LENGTH(cm)	36.2	45.5	41.2	45.1	36.2	43.9	43.8	
MEAN WEIGHT (g)	497	1035	826	1051	497	976	971	
DEPTH RANGE (m)	82/91	53/54	43/82	42/66	82/91	42/82	42/91	

TABLE XVIII-A: AMERICAN PLAICE, DIV. 3O, 2006: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	APR	JUN	JUL	OCT	NOV	DEC	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
18	1.4				2.6		1.4		1.9	1.8	18
20					21.3				15.2	13.9	20
22	2.9				25.6		2.8		18.3	16.9	22
24	5.7		4.6	4.2	54.1		5.6	4.6	39.2	36.2	24
26	54.3		23.4	0.5	40.3		52.9	23.4	28.9	30.4	26
28	93.1	43.5	66.5	14.2	52.4		91.8	66.5	39.1	43.3	28
30	123.5	48.1	94.3	35.9	104.5	13.0	121.5	94.3	81.1	84.2	30
32	75.1	169.4	107.2	77.4	109.7	26.0	77.5	107.2	91.8	91.1	32
34	162.9	108.4	123.9	157.2	96.0	39.0	161.5	123.9	93.3	98.6	34
36	123.7	136.1	166.6	163.9	110.0	51.9	124.0	166.6	106.4	108.8	36
38	194.0	91.6	162.1	206.0	79.3	64.9	191.4	162.1	91.4	99.7	38
40	32.2	121.2	72.6	118.4	76.2	90.9	34.5	72.6	83.6	80.0	40
42	29.4	182.5	93.7	79.4	88.6	26.0	33.3	93.7	76.9	74.3	42
44	66.0	55.6	44.4	72.9	49.9	26.0	65.7	44.4	48.5	49.6	44
46	35.8	43.5	24.7	24.5	39.5	64.9	36.0	24.7	42.1	41.3	46
48			11.9	20.4	14.4	26.0		11.9	17.1	15.8	48
50			3.9	10.9	7.0	103.9		3.9	23.9	21.9	50
52				7.8	13.3	142.9			34.6	31.5	52
54				6.3	10.7	168.8			37.0	33.7	54
56					1.3	116.9			20.8	18.9	56
58					1.9	13.0			3.6	3.3	58
60					1.0	26.0			5.1	4.6	60
62					0.1				0.1	0.1	62
64					0.3				0.2	0.2	64
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	3	3	17	13	12	1	6	17	26	49	
SAMPLING WEIGHT(kg)	64	27	208	504	823	95	91	208	1422	1720	
No. F.MEASURED	169	48	414	869	1506	77	217	414	2452	3083	
MEAN LENGTH(cm)	35.8	38.1	36.9	38.8	36.1	48.6	35.8	36.9	38.5	38.3	
MEAN WEIGHT (g)	491	589	534	621	536	1309	494	534	677	661	
DEPTH RANGE (m)	386/528	400/568	330/485	121/637	93/464	358/508	386/568	330/485	93/637	93/637	

TABLE XVIII-B: AMERICAN PLAICE, DIV. 3O, 2006: length composition (0/000) of the 280mm trawl catches

LENGTH GROUP	NOV	DEC	4th Q. = YEAR	LENGTH GROUP
18	1.2	0.0	0.6	18
20	1.2	0.0	0.6	20
22	7.4	0.0	3.4	22
24	16.3	0.0	7.4	24
26	48.3	3.0	23.7	26
28	48.2	13.2	29.1	28
30	78.2	22.6	48.0	30
32	63.4	56.7	59.8	32
34	86.3	84.5	85.3	34
36	96.3	151.4	126.3	36
38	71.2	124.6	100.3	38
40	57.3	71.8	65.2	40
42	44.9	52.5	49.1	42
44	43.3	59.9	52.4	44
46	74.6	49.5	60.9	46
48	79.7	68.0	73.4	48
50	51.5	49.1	50.2	50
52	49.4	81.1	66.7	52
54	40.1	51.8	46.5	54
56	23.4	20.3	21.7	56
58	10.0	27.7	19.6	58
60	5.0	9.0	7.1	60
62	2.0	3.1	2.6	62
64	0.5	0.0	0.2	64
TOTAL	1000	1000	1000	
No. SAMPLES	11	7	18	
SAMPLING WEIGHT(kg)	1341	756	2097	
No. F.MEASURED	1583	842	2425	
MEAN LENGTH(cm)	40.7	43.2	42.1	
MEAN WEIGHT (g)	803	924	869	
DEPTH RANGE (m)	89/293	81/186	81/293	

TABLE XIX-A: YELLOWTAIL FLOUNDER, DIV. 3N, 2006: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	JUL	NOV	3rd Q.	4th Q.	YEAR	LENGTH GROUP
24		7.8		7.8	6.8	24
26	9.5	15.6	9.5	15.6	14.9	26
28	19.0	23.4	19.0	23.4	22.9	28
30	9.5	39.1	9.5	39.1	35.4	30
32	66.7	85.9	66.7	85.9	83.5	32
34	57.1	140.6	57.1	140.6	130.2	34
36	161.9	125.0	161.9	125.0	129.6	36
38	133.3	78.1	133.3	78.1	85.0	38
40	152.4	234.4	152.4	234.4	224.1	40
42	209.5	164.1	209.5	164.1	169.8	42
44	95.2	62.5	95.2	62.5	66.6	44
46	47.6	7.8	47.6	7.8	12.8	46
48	19.0	15.6	19.0	15.6	16.1	48
50	19.0		19.0		2.4	50
TOTAL	1000	1000	1000	1000	1000	
No. SAMPLES	1	1	1	1	2	
SAMPLING WEIGHT(kg)	60	68	60	68	128	
No. F.MEASURED	105	128	105	128	233	
MEAN LENGTH(cm)	40.2	38.5	40.2	38.5	38.8	
MEAN WEIGHT (g)	649	574	649	574	583	
DEPTH RANGE (m)	62/69	97/98	62/69	97/98	62/98	

TABLE XIX-B: YELLOWTAIL FLOUNDER, DIV. 3N, 2006: length composition (0/000) of the 280mm trawl catches.

LENGTH GROUP	JUL	OCT	NOV	DEC	3rd Q.	4th Q.	YEAR	LENGTH GROUP
20			0.9			0.4	0.4	20
22			7.4			3.1	3.0	22
24			5.8			2.4	2.4	24
26	24.4		25.9	8.6	24.4	15.7	15.8	26
28	24.4		34.6	22.2	24.4	27.3	27.3	28
30	73.2		82.6	48.4	73.2	62.4	62.5	30
32	122.0	34.5	134.3	164.7	122.0	151.9	151.6	32
34	146.3	34.5	198.0	279.0	146.3	244.9	244.0	34
36	390.2	137.9	217.0	249.9	390.2	236.0	237.5	36
38	122.0	206.9	106.8	81.1	122.0	92.0	92.3	38
40	73.2	379.3	78.5	78.2	73.2	79.0	78.9	40
42	24.4	137.9	61.2	20.9	24.4	37.9	37.7	42
44		34.5	35.6	32.6		33.9	33.6	44
46		34.5	6.5	11.0		9.1	9.1	46
48			3.9	1.6		2.5	2.5	48
50			1.0	1.8		1.5	1.5	50
TOTAL	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	1	9	4	1	14	15	
SAMPLING WEIGHT(kg)	17	17	449	165	17	630	647	
No. F.MEASURED	41	29	1047	384	41	1460	1501	
MEAN LENGTH(cm)	36.0	40.2	36.2	36.2	36.0	36.2	36.2	
MEAN WEIGHT (g)	458	634	473	471	458	472	472	
DEPTH RANGE (m)	82/91	54/54	43/82	42/66	82/91	42/82	42/91	

TABLE XX: YELLOWTAIL FLOUNDER, DIV. 3O, 2006: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	JUL	NOV	3rd Q.	4th Q.	YEAR	LENGTH GROUP
24	21.0	5.5	21.0	5.5	7.9	24
26	37.9	27.5	37.9	27.5	29.1	26
28	93.5	49.5	93.5	49.5	56.2	28
30	203.0	93.4	203.0	93.4	110.2	30
32	141.1	142.9	141.1	142.9	142.6	32
34	140.7	236.3	140.7	236.3	221.6	34
36	117.3	269.2	117.3	269.2	245.9	36
38	130.4	131.9	130.4	131.9	131.6	38
40	42.8	22.0	42.8	22.0	25.2	40
42	40.7	5.5	40.7	5.5	10.9	42
44	21.1	16.5	21.1	16.5	17.2	44
46						46
48	10.6		10.6		1.6	48
TOTAL	1000	1000	1000	1000	1000	
No. SAMPLES	5	1	5	1	6	
SAMPLING WEIGHT(kg)	35	67	35	67	102	
No. F.MEASURED	99	182	99	182	281	
MEAN LENGTH(cm)	34.5	35.2	34.5	35.2	35.1	
MEAN WEIGHT (g)	416	429	416	429	427	
DEPTH RANGE (m)	331/430	93/104	331/430	93/104	93/430	

TABLE XXI: GREENLAND HALIBUT, DIV. 3L, 2006: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	JAN	FEB	MAR	APR	AUG	SEP	OCT	1st Q.	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
22	0.2							0.1				0.1	22
24	0.3	0.2						0.2				0.1	24
26	1.7							0.6				0.5	26
28	4.6	1.9	0.3		0.2			2.2		0.2		1.7	28
30	13.8	12.7	2.2	1.6	0.4		5.4	8.6	1.6	0.4	5.4	6.8	30
32	40.1	20.6	8.9	8.0	4.4		27.0	23.1	8.0	3.8	27.0	19.0	32
34	54.1	43.8	20.0	17.3	26.6	2.5	43.2	37.6	17.3	23.4	43.2	33.6	34
36	74.6	81.6	42.0	40.7	22.7	44.1	86.5	62.1	40.7	25.6	86.5	55.1	36
38	100.2	111.2	87.6	82.4	74.0	83.0	124.3	96.9	82.4	75.2	124.3	92.6	38
40	139.5	132.7	135.0	129.6	93.4	93.0	221.6	136.3	129.6	93.3	221.6	130.2	40
42	158.3	162.7	170.5	195.1	108.6	113.5	205.4	164.3	195.1	109.2	205.4	160.3	42
44	135.9	141.2	161.2	141.6	127.0	141.5	75.7	147.7	141.6	129.0	75.7	144.2	44
46	111.9	111.7	141.3	126.2	112.3	111.4	59.5	124.4	126.2	112.2	59.5	122.6	46
48	67.4	75.6	98.9	97.8	93.9	122.1	16.2	82.4	97.8	97.7	16.2	85.7	48
50	36.8	43.7	55.4	59.9	120.9	107.6	43.2	46.0	59.9	119.1	43.2	57.3	50
52	26.4	28.2	29.4	33.7	106.5	121.9	16.2	28.0	33.7	108.6	16.2	39.4	52
54	17.6	13.7	20.0	21.7	77.3	53.2	16.2	17.9	21.7	74.1	16.2	25.9	54
56	9.0	8.9	11.7	14.6	28.8		21.6	10.1	14.6	24.9	21.6	12.7	56
58	4.6	3.5	6.2	15.3	0.3		27.0	5.1	15.3	0.3	27.0	5.6	58
60	1.5	1.0	3.9	3.6	1.5	3.4	5.4	2.4	3.6	1.8	5.4	2.5	60
62	1.0	1.8	2.0	4.6		1.4	5.4	1.6	4.6	0.2	5.4	1.7	62
64	0.4	1.5	1.8	2.2				1.2	2.2			1.1	64
66		0.2	0.5	1.5				0.2	1.5			0.3	66
68	0.2		0.2	0.9	0.6			0.2	0.9	0.5		0.3	68
70			0.2	0.3	0.4	1.4		0.1	0.3	0.6		0.2	70
72			0.1	0.3				0.04	0.3			0.1	72
74			0.2	0.6				0.1	0.6			0.1	74
76				0.6					0.6			0.1	76
78		0.2						0.04				0.03	78
80		0.2	0.1					0.1				0.1	80
82			0.1					0.04				0.03	82
84													84
86			0.1					0.04				0.03	86
88		0.9	0.1					0.2				0.2	88
90			0.1					0.04				0.03	90
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	27	16	30	11	22	6	1	73	11	28	1	113	
SAMPLING WEIGHT(kg)	3869	2763	7405	2540	1600	417	132	14037	2540	2017	132	18726	
No. F.MEASURED	5301	3555	8958	2906	1759	480	185	17814	2906	2239	185	23144	
MEAN LENGTH(cm)	42.9	43.4	44.8	45.2	46.8	46.5	43.0	43.8	45.2	46.8	43.0	44.3	
MEAN WEIGHT (g)	765	789	864	897	998	969	780	812	897	994	780	845	
DEPTH RANGE (m)	898/1505	808/1432	1061/1557	645/1500	650/1006	655/969	1242/1273	808/1557	645/1500	650/1006	1242/1273	645/1557	

TABLE XXII: GREENLAND HALIBUT, DIV. 3M, 2006: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	JAN	FEB	APR	JUL	AUG	SEP	OCT	1st Q.	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
24			0.9						0.9			0.1	24
26													26
28	3.2		2.7		0.5			2.0	2.7	0.3		0.8	28
30		5.7	5.7	1.0	2.3			2.0	5.7	1.5		2.0	30
32	24.0	5.7	13.1	18.7	16.0		7.2	17.4	13.1	12.9	7.2	13.4	32
34	40.0	34.1	23.9	35.9	28.2		7.3	37.9	23.9	23.3	7.3	24.9	34
36	69.4	28.4	52.7	60.6	45.4		22.0	54.6	52.7	38.1	22.0	41.6	36
38	95.5	73.9	71.2	72.4	92.8	8.7	53.0	87.7	71.2	70.0	53.0	72.1	38
40	128.3	102.3	109.4	107.7	130.7	9.7	90.3	118.9	109.4	99.1	90.3	102.8	40
42	123.1	164.8	163.5	137.1	157.8	76.6	112.2	138.1	163.5	135.6	112.2	138.3	42
44	136.8	227.3	128.7	113.5	151.3	81.7	119.7	169.3	128.7	128.4	119.7	134.0	44
46	135.2	176.1	162.7	142.6	136.0	124.3	186.0	149.9	162.7	134.6	186.0	141.9	46
48	63.2	102.3	103.8	102.8	94.0	87.1	149.0	77.3	103.8	94.1	149.0	94.8	48
50	68.9	34.1	55.6	80.8	61.8	239.2	109.2	56.4	55.6	105.3	109.2	92.7	50
52	39.2	28.4	44.5	55.4	33.1	116.8	50.7	35.3	44.5	56.1	50.7	51.6	52
54	29.7	11.4	31.3	29.8	19.9	108.5	45.5	23.1	31.3	41.7	45.5	38.0	54
56	21.5	5.7	15.5	22.4	17.4	54.7	19.2	15.8	15.5	26.7	19.2	23.6	56
58			2.9	13.7	7.4	50.9	18.9		2.9	18.4	18.9	14.0	58
60			8.7	3.4	2.2	19.5	4.5		8.7	6.3	4.5	5.6	60
62	9.5				2.7	12.6	2.7	6.0		4.4	2.7	4.1	62
64	3.2			1.8	0.4	1.9	2.7	2.0		1.0	2.7	1.1	64
66	9.5					7.7		6.0		1.7		2.1	66
68				0.4	0.2					0.2		0.1	68
70													70
72													72
74			2.9						2.9			0.3	74
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	2	1	3	12	29	4	5	3	3	45	5	56	
SAMPLING WEIGHT(kg)	276	139	522	913	2290	365	340	415	522	3569	340	4845	
No. F.MEASURED	345	176	643	1059	2861	320	365	521	643	4240	365	5769	
MEAN LENGTH(cm)	44.6	44.5	45.0	45.3	44.6	50.9	46.9	44.6	45.0	46.2	46.9	45.8	
MEAN WEIGHT (g)	884	825	892	907	856	1290	1006	863	892	963	1006	942	
DEPTH RANGE (m)	840/1151	863/964	798/1180	307/516	208/840	711/1077	288/523	840/1151	798/1180	208/1077	288/523	208/1180	

TABLE XXIII: GREENLAND HALIBUT, DIV. 3N, 2006: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	JUL	OCT	3rd Q.	4th Q.	YEAR	LENGTH GROUP
24		2.3		2.3	1.7	24
26						26
28	13.7	11.4	13.7	11.4	12.0	28
30	27.4	9.1	27.4	9.1	13.8	30
32	123.3	36.8	123.3	36.8	58.8	32
34	109.6	67.1	109.6	67.1	77.9	34
36	123.3	72.4	123.3	72.4	85.3	36
38	68.5	93.5	68.5	93.5	87.2	38
40	178.1	128.7	178.1	128.7	141.3	40
42	109.6	156.8	109.6	156.8	144.8	42
44	82.2	79.5	82.2	79.5	80.2	44
46	95.9	84.4	95.9	84.4	87.3	46
48		56.1		56.1	41.8	48
50	41.1	58.7	41.1	58.7	54.2	50
52	27.4	84.4	27.4	84.4	69.9	52
54		23.5		23.5	17.5	54
56		35.2		35.2	26.3	56
TOTAL	1000	1000	1000	1000	1000	
No. SAMPLES	1	2	1	2	3	
SAMPLING WEIGHT(kg)	42	89	42	89	131	
No. F.MEASURED	73	140	73	140	213	
MEAN LENGTH(cm)	40.2	43.6	40.2	43.6	42.8	
MEAN WEIGHT (g)	616	820	616	820	769	
DEPTH RANGE (m)	526/748	438/519	526/748	438/519	438/748	

TABLE XXIV: GREENLAND HALIBUT, DIV. 30, 2006: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	OCT	NOV	DEC	4th Q. =YEAR	LENGTH GROUP
22		0.8		0.4	22
24		0.4	8.0	0.3	24
26		5.0	8.0	2.7	26
28	3.0	10.7	8.0	7.2	28
30	9.9	15.2	16.0	12.8	30
32	40.7	53.7	28.5	47.6	32
34	74.1	135.7	20.5	106.9	34
36	98.1	137.0	93.5	119.0	36
38	99.2	128.3	57.0	114.6	38
40	122.2	168.6	101.5	147.1	40
42	162.1	115.4	77.5	136.2	42
44	97.5	80.6	110.4	88.5	44
46	67.8	37.8	179.0	52.6	46
48	79.1	37.4	89.1	56.7	48
50	58.1	23.3	77.5	39.5	50
52	40.8	28.1	81.1	34.3	52
54	35.6	16.3	44.5	25.3	54
56	11.8	5.8		8.5	56
TOTAL	1000	1000	1000	1000	
No. SAMPLES	22	22	2	46	
SAMPLING WEIGHT(kg)	1086	830	61	1977	
No. F.MEASURED	1421	1222	75	2718	
MEAN LENGTH(cm)	43.0	40.6	44.4	41.7	
MEAN WEIGHT (g)	772	636	862	699	
DEPTH RANGE (m)	123/698	173/750	409/520	123/750	

TABLE XXV: ROUGHHEAD GRENADIER, DIV. 3L, 2006: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	JAN	FEB	MAR	APR	AUG	SEP	OCT	1st Q.	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
6	0.3		0.9	0.5				0.5	0.5			0.4	6
7	4.2	4.9	9.7	1.5			18.9	6.8	1.5		18.9	5.2	7
8	16.4	21.7	26.5	13.4			66.0	22.0	13.4		66.0	17.7	8
9	39.1	65.1	58.6	38.0			103.8	52.9	38.0		103.8	42.9	9
10	107.9	106.8	122.0	122.9			122.6	114.0	122.9		122.6	96.9	10
11	174.8	165.4	168.2	196.2	2.2		122.6	170.0	196.2		122.6	145.8	11
12	270.5	228.3	198.3	254.9	49.1		235.8	229.8	254.9	1.8	235.8	202.7	12
13	161.6	150.9	146.4	154.3	144.5	58.3	66.0	152.7	154.3	130.5	66.0	148.5	13
14	85.5	101.7	106.9	85.1	141.7	166.5	18.9	98.3	85.1	145.7	18.9	103.5	14
15	50.3	68.2	61.9	48.3	130.0	121.4	37.7	59.0	48.3	128.6	37.7	68.6	15
16	35.5	35.8	32.5	25.0	139.7	78.0	18.9	34.2	25.0	129.7	18.9	48.3	16
17	13.5	17.8	16.5	16.0	139.6	241.9	18.9	15.7	16.0	156.2	18.9	38.4	17
18	9.7	9.2	10.5	12.6	147.3	266.8	37.7	10.0	12.6	166.6	37.7	35.9	18
19	7.7	2.4	6.5	6.7	85.4	36.1		6.2	6.7	77.4		17.7	19
20	4.2	6.1	4.8	6.8	3.2		37.7	4.8	6.8	2.7	37.7	5.1	20
21	4.4	3.8	4.0	2.9	3.6	1.4	18.9	4.1	2.9	3.3	18.9	3.9	21
22	3.3	2.8	6.4	3.7	7.8	1.4	28.3	4.6	3.7	6.8	28.3	5.1	22
23	4.3	2.8	6.1	6.3	2.7		18.9	4.8	6.3	2.2	18.9	4.7	23
24	1.6	1.5	3.2	1.8	0.5	1.4	18.9	2.3	1.8	0.6	18.9	2.1	24
25	1.8	2.6	3.3	0.6	1.3	2.9		2.6	0.6	1.6		2.2	25
26	1.3	0.2	1.8	1.3	0.7	1.4	9.4	1.3	1.3	0.9	9.4	1.3	26
27	1.0	0.8	2.0	0.5	0.6			1.4	0.5	0.5		1.1	27
28	0.6	0.5	1.4	0.5		20.9		0.9	0.5	3.4		1.3	28
29	0.2		0.3			1.4		0.2		0.2		0.2	29
30	0.2	0.3	0.7					0.5				0.3	30
31		0.3	0.3					0.2				0.1	31
32			0.2					0.1				0.1	32
33													33
34			0.3					0.2				0.1	34
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	27	16	30	11	16	4	1	73	11	20	1	105	
SAMPLING WEIGHT(kg)	1801	1373	3300	1099	643	183	57	6475	1099	826	57	8456	
No. F.MEASURED	4180	3227	7140	2637	1280	320	106	14547	2637	1600	106	18890	
MEAN LENGTH(cm)	13.0	12.9	13.0	12.9	16.3	17.1	13.4	13.0	12.9	16.4	13.4	13.5	
MEAN WEIGHT (g)	359	354	377	354	597	680	460	366	354	610	460	405	
DEPTH RANGE (m)	924/1513	973/1410	1061/1514	645/1464	649/965	670/969	1242/1273	924/1514	645/1464	649/969	1242/1273	645/1514	

TABLE XXVI: ROUGHHEAD GRENADIER, DIV. 3M, 2006: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	JAN	FEB	APR	1st Q.	2nd Q.	YEAR	LENGTH GROUP
7	4.0	8.4	3.9	6.1	3.9	5.4	7
8	8.0	29.3	10.1	18.3	10.1	15.8	8
9	53.7	71.1	50.5	62.1	50.5	58.6	9
10	169.8	129.7	128.3	150.4	128.3	143.7	10
11	258.2	179.9	201.8	220.4	201.8	214.7	11
12	255.2	267.8	243.4	261.3	243.4	255.8	12
13	124.1	188.3	152.8	155.1	152.8	154.4	13
14	70.5	41.8	71.5	56.7	71.5	61.2	14
15	40.7	25.1	49.4	33.2	49.4	38.1	15
16	15.9	16.7	33.8	16.3	33.8	21.6	16
17		12.6	21.4	6.1	21.4	10.7	17
18		16.7	7.8	8.1	7.8	8.0	18
19		4.2	1.9	2.0	1.9	2.0	19
20		8.4	5.8	4.0	5.8	4.6	20
21			3.9		3.9	1.2	21
22			5.8		5.8	1.8	22
23			1.9		1.9	0.6	23
24							24
25							25
26			1.9		1.9	0.6	26
27			1.9		1.9	0.6	27
28			1.9		1.9	0.6	28
TOTAL	1000	1000	1000	1000	1000	1000	
No. SAMPLES	2	1	2	3	2	5	
SAMPLING WEIGHT(kg)	102	79	186	181	186	367	
No. F.MEASURED	293	239	444	532	444	976	
MEAN LENGTH(cm)	12.1	12.4	12.8	12.2	12.8	12.4	
MEAN WEIGHT (g)	286	307	348	296	348	312	
DEPTH RANGE (m)	840/1151	863/964	1049/1180	840/1151	1049/1180	840/1180	

TABLE XXVII: WITCH FLOUNDER, DIV. 3L, 2006: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	JAN	FEB	MAR	APR	AUG	OCT	1st Q.	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
22	2.1						1.3				1.0	22
24	1.3	2.5	10.2				3.6				2.7	24
26	17.6	9.4	18.2	54.2			16.5	54.2			18.6	26
28	52.7	33.4	37.0	53.2			46.0	53.2			41.0	28
30	81.6	63.2	88.2	118.3	12.5		80.4	118.3	12.5		75.9	30
32	154.2	121.9	145.9	158.5	50.0	56.6	147.2	158.5	50.0	56.6	136.3	32
34	173.3	120.6	168.4	159.7	175.0	94.3	164.0	159.7	175.0	94.3	163.4	34
36	142.9	184.1	171.1	131.4	262.5	283.0	156.0	131.4	262.5	283.0	167.0	36
38	157.7	197.9	170.4	149.4	225.0	452.8	167.0	149.4	225.0	452.8	176.4	38
40	89.5	115.8	88.2	62.3	187.5	75.5	93.3	62.3	187.5	75.5	99.6	40
42	57.5	60.5	59.0	81.4	50.0	18.9	58.3	81.4	50.0	18.9	59.3	42
44	30.8	66.5	11.4	20.3	12.5	18.9	31.7	20.3	12.5	18.9	28.1	44
46	24.9	13.3	20.3	4.6	25.0		22.0	4.6	25.0		20.0	46
48	9.8	8.4	8.1	4.1			9.2	4.1			7.5	48
50	2.6	2.5	3.6				2.8				2.2	50
52	1.1						0.7				0.5	52
54	0.4			2.6			0.3	2.6			0.5	54
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	17	12	28	11	1	1	57	11	1	1	70	
SAMPLING WEIGHT(kg)	238	108	149	60	50	17	494	60	50	17	622	
No. F.MEASURED	694	307	465	181	80	53	1466	181	80	53	1780	
MEAN LENGTH(cm)	36.6	37.5	36.4	35.7	38.2	38.1	36.7	35.7	38.2	38.1	36.8	
MEAN WEIGHT (g)	487	515	480	459	531	523	489	459	531	523	491	
DEPTH RANGE (m)	898/1344	973/1410	1061/1514	645/1423	776/871	1242/1273	898/1514	645/1423	776/871	1242/1273	645/1514	

TABLE XXVIII: WITCH FLOUNDER, DIV. 3M, 2006: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	JAN	JUL	AUG	OCT	1st Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
22	16.4				16.4			1.0	22
24	16.4				16.4			1.0	24
26	32.8		1.8		32.8	1.3		3.0	26
28	65.6	23.3	11.9		65.6	15.2		17.3	28
30	114.8	49.0	73.5	20.0	114.8	66.5	20.0	66.7	30
32	229.5	104.6	176.2	43.5	229.5	155.8	43.5	153.7	32
34	114.8	180.7	183.8	143.8	114.8	182.9	143.8	176.7	34
36	131.1	194.6	227.8	237.4	131.1	218.3	237.4	214.3	36
38	163.9	168.7	175.0	264.6	163.9	173.2	264.6	177.9	38
40	32.8	127.8	86.7	176.3	32.8	98.4	176.3	99.0	40
42	49.2	95.5	47.1	56.5	49.2	60.9	56.5	60.0	42
44	16.4	22.9	7.8	40.3	16.4	12.1	40.3	14.0	44
46	16.4	21.8	8.4	17.6	16.4	12.2	17.6	12.8	46
48		5.9				1.7		1.5	48
50		2.6				0.7		0.7	50
52		2.6				0.7		0.7	52
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	13	29	5	1	42	5	48	
SAMPLING WEIGHT(kg)	17	90	152	23	17	242	23	282	
No. F.MEASURED	61	249	482	65	61	731	65	857	
MEAN LENGTH(cm)	34.9	37.7	36.5	38.5	34.9	36.8	38.5	36.8	
MEAN WEIGHT (g)	436	519	477	540	436	489	540	489	
DEPTH RANGE (m)	1134/1151	255/516	208/840	288/523	1134/1151	208/840	288/523	208/1151	

TABLE XXIX-A: WITCH FLOUNDER, DIV. 3N, 2006: length composition (0/000) of the 130mm trawl catches

LENGTH GROUP	OCT	NOV	4th Q. =YEAR	LENGTH GROUP
24	4.1	13.3	4.7	24
26	16.6	35.4	17.8	26
28	58.5	35.5	57.0	28
30	158.5	104.3	154.9	30
32	133.8	115.6	132.6	32
34	163.6	148.7	162.6	34
36	213.6	214.4	213.7	36
38	143.2	175.0	145.3	38
40	89.2	78.1	88.5	40
42	6.2	31.1	7.8	42
44	12.3	39.8	14.1	44
46	0.3	4.4	0.5	46
48	0.3	4.4	0.5	48
TOTAL	1000	1000	1000	
No. SAMPLES	4	2	6	
SAMPLING WEIGHT(kg)	121	76	196	
No. F.MEASURED	423	245	668	
MEAN LENGTH(cm)	35.3	36.1	35.3	
MEAN WEIGHT (g)	478	512	481	
DEPTH RANGE (m)	92/534	97/309	92/534	

TABLE XXIX-B: WITCH FLOUNDER, DIV. 3N, 2006: length composition (0/000) of the 280mm trawl catches.

LENGTH GROUP	JUL = YEAR	LENGTH GROUP
28	16.7	28
30	50.0	30
32	50.0	32
34	266.7	34
36	133.3	36
38	83.3	38
40	233.3	40
42	133.3	42
44	33.3	44
TOTAL	1000	
No. SAMPLES	1	
SAMPLING WEIGHT(kg)	21	
No. F.MEASURED	60	
MEAN LENGTH(cm)	38.0	
MEAN WEIGHT (g)	583	
DEPTH RANGE (m)	82/91	

TABLE XXX-A: WITCH FLOUNDER, DIV. 3O, 2006: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	APR	JUN	JUL	OCT	NOV	DEC	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
16				0.1					0.0	0.0	16
18			0.8	0.1				0.8	0.0	0.0	18
20				0.2					0.1	0.1	20
22		84.7	8.5	2.9	2.1		2.7	8.5	2.2	2.2	22
24	1.1	74.3	19.6	7.7	0.4		3.4	19.6	2.6	2.7	24
26	7.0	108.7	27.8	22.7	7.6		10.2	27.8	11.5	11.6	26
28	19.5	56.7	64.9	54.7	26.2		20.6	64.9	32.6	32.4	28
30	42.3	160.6	130.0	92.8	45.0		46.0	130.0	55.6	55.7	30
32	51.9	130.6	181.8	125.1	87.4	16.8	54.3	181.8	92.7	92.0	32
34	64.6	159.4	128.3	158.7	139.8	70.1	67.6	128.3	139.5	137.0	34
36	155.4	97.1	149.7	165.3	186.7	148.6	153.6	149.7	176.9	176.0	36
38	238.7	58.3	142.2	139.6	182.7	101.0	233.0	142.2	162.5	164.8	38
40	169.2	39.2	62.4	101.4	130.4	232.2	165.2	62.4	130.4	131.2	40
42	119.9	7.6	55.0	60.6	97.3	245.6	116.4	55.0	99.1	99.4	42
44	74.7	15.2	16.0	38.7	56.7	49.4	72.8	16.0	50.6	51.1	44
46	39.8	7.6	2.5	26.4	26.6	69.0	38.8	2.5	30.2	30.4	46
48			4.0	2.2	7.5	34.2		4.0	8.2	7.9	48
50	4.0		4.0	0.4	2.9	0.6	3.9	4.0	2.0	2.0	50
52	8.0			0.6	0.7	16.3	7.7		2.0	2.2	52
54	4.0		2.5			16.3	3.9	2.5	1.4	1.5	54
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	3	3	17	48	25	2	6	17	75	98	
SAMPLING WEIGHT(kg)	141	19	100	1843	1215	50	160	100	3109	3369	
No. F.MEASURED	363	78	343	4162	2689	103	441	343	6954	7738	
MEAN LENGTH(cm)	39.3	32.1	35.2	36.5	38.1	41.5	39.1	35.2	37.9	37.9	
MEAN WEIGHT (g)	644	383	484	531	593	741	636	484	587	588	
DEPTH RANGE (m)	386/528	406/568	330/464	159/698	91/710	313/508	386/568	330/464	91/710	91/710	

TABLE XXX-B: WITCH FLOUNDER, DIV. 30, 2006: length composition
(0/000) of the 280mm trawl catches

LENGTH GROUP	NOV	DEC	4th Q. = YEAR	LENGTH GROUP
22	2.7		2.2	22
24	19.3		16.0	24
26	43.3	2.7	36.4	26
28	93.2	2.7	77.7	28
30	90.9	3.0	75.8	30
32	99.8	77.0	95.9	32
34	113.6	70.9	106.3	34
36	104.8	173.6	116.6	36
38	124.8	305.1	155.8	38
40	135.2	207.9	147.7	40
42	86.2	64.0	82.4	42
44	43.9	64.9	47.5	44
46	27.2	14.1	24.9	46
48	7.4	11.2	8.0	48
50	5.2	2.1	4.7	50
52	2.1	0.8	1.9	52
54	0.4		0.3	54
TOTAL	1000	1000	1000	
No. SAMPLES	10	6	16	
SAMPLING WEIGHT(kg)	446	132	578	
No. F.MEASURED	1204	307	1511	
MEAN LENGTH(cm)	36.5	39.1	37.0	
MEAN WEIGHT (g)	540	630	556	
DEPTH RANGE (m)	89/217	81/186	81/217	

TABLE XXXI: WHITE HAKE, DIV. 3N, 2006: length composition
(0/000) of the 130mm trawl catches.

LENGTH GROUP	OCT = YEAR	LENGTH GROUP
24	38.5	24
25		25
26		26
27		27
28		28
29		29
30	38.5	30
31		31
32	38.5	32
33		33
34		34
35	76.9	35
36		36
37	38.5	37
38	38.5	38
39	76.9	39
40		40
41	38.5	41
42		42
43	115.4	43
44	38.5	44
45		45
46	76.9	46
47	76.9	47
48	153.8	48
49	38.5	49
50		50
51		51
52	38.5	52
53	76.9	53
TOTAL	1000	
No. SAMPLES	1	
SAMPLING WEIGHT(kg)	22	
No. F.MEASURED	26	
MEAN LENGTH(cm)	43.1	
MEAN WEIGHT (g)	972	
DEPTH RANGE (m)	438/519	

TABLE XXXII-A: WHITE HAKE, DIV. 3O, 2006: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	APR	JUN	JUL	OCT	NOV	DEC	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
23					0.9				0.4	0.3	23
24					1.4				0.6	0.5	24
25											25
26				0.6					0.3	0.2	26
27				6.7					3.0	2.6	27
28				4.8	2.7				3.3	2.8	28
29					5.5				2.3	2.0	29
30				2.6	3.8				2.8	2.4	30
31				5.5	5.3				4.7	4.1	31
32				7.8	3.7				5.1	4.4	32
33				10.4	20.4	7.7			14.3	12.4	33
34	20.8		4.4	8.0	16.6	15.4	14.4	4.4	12.6	11.9	34
35			4.4	18.9	26.2	23.7		4.4	22.6	20.1	35
36	38.5	125.0	3.9	20.7	29.9		64.8	3.9	22.0	21.5	36
37	50.4		11.6	19.1	34.4		35.0	11.6	23.2	22.4	37
38			8.2	36.0	37.7			8.2	32.1	28.7	38
39	17.7		36.9	39.6	39.9	23.7	12.3	36.9	37.7	36.8	39
40	53.2		32.4	66.9	66.3	7.7	37.0	32.4	59.1	55.7	40
41	47.3		41.6	57.2	52.2	15.4	32.9	41.6	49.7	48.4	41
42	29.6	250.0	44.7	65.1	53.9		96.7	44.7	52.0	52.6	42
43	53.2		43.3	74.2	73.8	7.7	37.0	43.3	65.5	62.4	43
44	17.7		61.3	76.3	81.6	46.8	12.3	61.3	74.8	71.5	44
45	44.3		87.5	77.9	52.5	62.2	30.8	87.5	65.0	66.2	45
46	94.7	125.0	48.6	89.0	53.6	94.2	103.9	48.6	74.6	72.9	46
47	109.4		49.1	43.5	52.7	55.1	76.1	49.1	48.9	49.8	47
48	47.3		30.6	37.7	46.0	55.1	32.9	30.6	43.5	41.9	48
49	127.3		57.4	44.3	43.0	77.5	88.6	57.4	48.0	50.2	49
50	59.2	125.0	45.8	43.3	43.2	148.7	79.2	45.8	56.7	56.3	50
51		125.0	42.4	34.0	19.1	30.8	38.0	42.4	27.2	29.1	51
52	20.8		30.3	37.2	18.8	78.2	14.4	30.3	34.6	33.5	52
53	20.8		55.7	21.1	18.4	39.1	14.4	55.7	22.3	25.4	53
54			32.0	9.6	21.1	23.1		32.0	16.2	17.3	54
55	17.7		32.8	7.7	15.5	7.7	12.3	32.8	11.0	13.3	55
56	50.4	125.0	32.0	6.6	8.3	31.4	73.1	32.0	10.5	14.6	56
57			11.6	2.0	12.2	71.2		11.6	15.2	14.4	57
58	20.8	125.0	22.3	5.1	5.0	39.1	52.5	22.3	9.4	12.0	58
59	20.8		17.2	8.1	13.8	7.7	14.4	17.2	10.5	11.3	59
60			33.3	3.2	4.7			33.3	3.5	6.3	60
61			10.8	8.1	7.9			10.8	7.0	7.1	61
62	8.9		16.0	1.3	4.3		6.2	16.0	2.4	3.9	62
63			14.3					14.3		1.4	63
64			17.0		0.8			17.0	0.4	2.0	64
65	8.9					7.7	6.2		1.0	1.0	65
66					1.4				0.6	0.5	66
67	20.8		5.1			15.4	14.4	5.1	2.0	2.7	67
68			8.7		1.4	7.7		8.7	1.6	2.2	68
69			3.9					3.9		0.4	69
70											70
71											71
72											72
73											73
74											74
75											75
76			2.8					2.8		0.3	76
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	2	1	8	24	20	2	3	8	46	57	
SAMPLING WEIGHT(kg)	91	10	294	920	850	110	101	294	1880	2275	
No. F.MEASURED	82	8	205	958	875	80	90	205	1913	2208	
MEAN LENGTH(cm)	47.4	48.1	49.7	44.8	44.7	49.9	47.6	49.7	45.4	45.9	
MEAN WEIGHT (g)	1276	1336	1474	1064	1075	1471	1294	1474	1121	1162	
DEPTH RANGE (m)	382/504.9	406/534	330/442	161/698	184/750	313/513	382/534	330/442	161/750	161/750	

TABLE XXXII-B: WHITE HAKE, DIV. 30, 2006: length composition (0/000)
of the 280mm trawl catches.

LENGTH GROUP	NOV	DEC	4th Q. = YEAR	LENGTH GROUP
24	6.9		2.7	24
25				25
26				26
27				27
28	6.9		2.7	28
29	6.9	4.4	5.4	29
30	9.0		3.6	30
31	9.0	2.9	5.3	31
32				32
33		11.3	6.8	33
34	18.0		7.2	34
35	13.9	8.9	10.8	35
36	9.0	29.9	21.6	36
37	33.9	2.9	15.2	37
38	34.6	15.7	23.2	38
39	67.9	34.3	47.6	39
40	72.1	8.9	33.9	40
41	109.5	4.4	46.1	41
42	68.5	19.0	38.6	42
43	49.1	14.6	28.3	43
44	73.7	40.7	53.8	44
45	49.7	43.1	45.7	45
46	69.1	83.9	78.0	46
47	33.3	40.0	37.3	47
48	69.2	5.7	30.9	48
49	52.0	27.0	36.9	49
50	55.1	52.2	53.4	50
51	15.9	38.5	29.5	51
52	29.1	30.3	29.8	52
53	28.3	20.4	23.5	53
54		32.3	19.5	54
55		43.8	26.4	55
56	4.9	29.2	19.6	56
57	4.9	25.2	17.1	57
58		19.1	11.5	58
59		53.2	32.1	59
60		24.5	14.8	60
61		58.5	35.3	61
62		19.4	11.7	62
63		9.8	5.9	63
64		29.2	17.6	64
65		14.7	8.9	65
66		4.9	3.0	66
67				67
68		38.8	23.4	68
69		14.7	8.9	69
70		19.4	11.7	70
71		4.9	3.0	71
72		19.4	11.7	72
TOTAL	1000	1000	1000	
No. SAMPLES	3	6	9	
SAMPLING WEIGHT(kg)	141	228	369	
No. F.MEASURED	150	140	290	
MEAN LENGTH(cm)	43.8	53.0	49.4	
MEAN WEIGHT (g)	989	1855	1511	
DEPTH RANGE (m)	89/293	108/186	89/293	

TABLE XXXIII: THORNY SKATE, DIV. 3L, 2006: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	JAN	FEB	MAR	APR	OCT	1st Q.	2nd Q.	4th Q.	YEAR	LENGTH GROUP
21	3.7	1.0	1.6			2.2			1.9	21
22	5.7	13.6	1.6	9.3		5.5	9.3		5.9	22
23	2.8		2.3	4.8		2.0	4.8		2.3	23
24	22.7	13.1	12.4	12.2		16.2	12.2		15.1	24
25	5.7	8.9	3.4	10.4		5.3	10.4		5.8	25
26	12.1	20.1	11.4	7.6		13.4	7.6		12.2	26
27	12.9	29.5	20.0	23.8		19.5	23.8		19.4	27
28	16.1	2.2	17.8	24.0		14.0	24.0		14.8	28
29	28.3	15.4	24.3	16.5		23.9	16.5		22.1	29
30	48.4	59.7	51.5	66.4		52.1	66.4		52.3	30
31	23.3	36.2	40.9	48.1		33.7	48.1		34.5	31
32	44.6	52.1	65.2	62.9	50.0	55.2	62.9	50.0	56.0	32
33	46.5	62.4	59.4	41.1		55.5	41.1		51.7	33
34	29.8	33.5	32.9	31.7	50.0	31.9	31.7	50.0	32.5	34
35	50.0	47.4	67.2	51.4	150.0	57.0	51.4	150.0	59.3	35
36	99.6	97.5	106.0	122.6	200.0	102.0	122.6	200.0	107.9	36
37	26.4	22.1	41.0	52.2		31.9	52.2		33.6	37
38	115.0	146.3	108.0	113.3	150.0	118.4	113.3	150.0	118.7	38
39	25.9	31.5	38.7	34.5	50.0	32.7	34.5	50.0	33.5	39
40	173.6	137.0	145.7	110.8	150.0	153.7	110.8	150.0	147.9	40
41	83.7	95.7	77.0	81.4	50.0	83.2	81.4	50.0	81.9	41
42	64.7	40.2	34.3	44.8	100.0	46.3	44.8	100.0	47.8	42
43	13.0	10.3	11.1	9.8		11.6	9.8		11.0	43
44	25.0	16.9	10.7	16.1	50.0	17.0	16.1	50.0	18.0	44
45	5.3		6.6			4.8			4.0	45
46	10.4	7.5	8.1	4.2		8.8	4.2		7.9	46
47	5.0		1.1			2.2			1.9	47
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	26	15	30	9	1	71	9	1	81	
SAMPLING WEIGHT(kg)	1242	1069	2182	644	66	4493	644	66	5202	
No. F.MEASURED	384	336	688	207	20	1408	207	20	1635	
MEAN LENGTH(cm)	36.9	36.4	36.4	36.1	38.4	36.6	36.1	38.4	36.6	
DEPTH RANGE (m)	898/1513	808/1432	1061/1557	870/1500	1242/1273	808/1557	870/1500	1242/1273	808/1557	

TABLE XXXIV: THORNY SKATE, DIV. 3M, 2006: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	JAN	APR	JUL	AUG	OCT	1st Q.	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
21	41.5					41.5				0.9	21
22	41.5	3.9				41.5	3.9			1.1	22
23											23
24				3.6				2.5		2.2	24
25											25
26	80.3	4.0				80.3	4.0			2.0	26
27		8.0	9.1	19.7			8.0	16.6		14.9	27
28		3.9	11.8	4.0			3.9	6.3		5.7	28
29	80.3	8.0	27.3	16.3		80.3	8.0	19.5		19.2	29
30	38.8	47.4	39.2	45.9		38.8	47.4	43.9		41.7	30
31	38.8	43.2	45.3	54.9		38.8	43.2	52.1		48.6	31
32	80.3	79.0	59.9	52.6	29.1	80.3	79.0	54.7	29.1	55.2	32
33	41.5	39.3	114.4	116.5	60.2	41.5	39.3	115.9	60.2	107.3	33
34	160.6	7.8	72.6	70.1	42.4	160.6	7.8	70.8	42.4	68.0	34
35		47.3	74.3	131.8	60.2		47.3	115.0	60.2	106.0	35
36	77.6	94.4	119.3	99.5	160.3	77.6	94.4	105.2	160.3	107.0	36
37	80.3	43.4	105.0	54.0	122.4	80.3	43.4	68.9	122.4	70.6	37
38	38.8	114.3	39.0	73.1	147.0	38.8	114.3	63.2	147.0	69.8	38
39		39.2	56.0	84.7	86.8		39.2	76.3	86.8	73.2	39
40	38.8	220.9	68.6	62.0	131.2	38.8	220.9	63.9	131.2	75.3	40
41	38.8	50.8	83.2	62.5	73.5	38.8	50.8	68.6	73.5	67.2	41
42	80.3	27.1	50.6	24.6	73.5	80.3	27.1	32.2	73.5	35.2	42
43		35.4	10.3	13.5	13.3		35.4	12.5	13.3	13.5	43
44	41.5	39.3	9.1	3.6		41.5	39.3	5.2		7.5	44
45		4.0	5.1	7.2			4.0	6.6		6.0	45
46		7.6					7.6			0.4	46
47		31.6					31.6			1.7	47
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	2	4	7	14	3	2	4	21	3	30	
SAMPLING WEIGHT(kg)	64	321	303	751	133	64	321	1054	133	1572	
No. F.MEASURED	25	93	110	269	41	25	93	379	41	538	
MEAN LENGTH(cm)	34.1	38.0	36.4	36.1	38.2	34.1	38.0	36.2	38.2	36.3	
DEPTH RANGE (m)	840/1151	289/1180	170/516	208/519	301/523	840/1151	289/1180	170/519	301/523	170/1180	

TABLE XXXV-A: THORNY SKATE, DIV. 3N, 2006: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	JUL	OCT	NOV	3rd Q.	4th Q.	YEAR	LENGTH GROUP
17		3.1			0.3	0.3	17
18							18
19		9.3			0.9	0.9	19
20		9.3			0.9	0.9	20
21		3.1			0.3	0.3	21
22		6.2			0.6	0.6	22
23		6.2			0.6	0.6	23
24		3.1	11.6		10.8	10.5	24
25		3.1			0.3	0.3	25
26		10.4			1.0	1.0	26
27		9.3	6.2		6.5	6.4	27
28		14.6	16.1		16.0	15.6	28
29		21.1	35.7		34.3	33.4	29
30		24.2	29.1		28.6	27.9	30
31		41.7	29.6		30.7	29.9	31
32	26.3	59.3	46.5	26.3	47.8	47.2	32
33		39.8	114.2		107.0	104.2	33
34	52.6	16.9	69.9	52.6	64.7	64.4	34
35	26.3	65.7	96.3	26.3	93.3	91.5	35
36	78.9	55.7	98.8	78.9	94.7	94.3	36
37	52.6	74.1	40.3	52.6	43.6	43.8	37
38	105.3	73.5	43.5	105.3	46.4	47.9	38
39	78.9	69.2	142.0	78.9	135.0	133.5	39
40	157.9	110.5	111.2	157.9	111.1	112.3	40
41	184.2	116.0	38.1	184.2	45.6	49.2	41
42	105.3	84.6	35.4	105.3	40.2	41.9	42
43	26.3	34.5	24.7	26.3	25.6	25.6	43
44	78.9	16.0	10.8	78.9	11.3	13.0	44
45	26.3	10.4		26.3	1.0	1.7	45
46		6.2			0.6	0.6	46
47		3.1			0.3	0.3	47
TOTAL	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	5	4	1	9	10	
SAMPLING WEIGHT(kg)	145	1021	404	145	1426	1571	
No. F.MEASURED	38	314	138	38	452	490	
MEAN LENGTH(cm)	40.0	37.1	36.5	40.0	36.6	36.6	
DEPTH RANGE (m)	62/69	92/534	96/364	62/69	92/534	62/534	

TABLE XXXV-B: THORNY SKATE, DIV. 3N, 2006: length composition (0/000) of the 280mm trawl catches.

LENGTH GROUP	OCT	NOV	DEC	4th Q. = YEAR	LENGTH GROUP
23		1.2		0.9	23
24		6.3	2.2	5.1	24
25		6.3		4.6	25
26		9.9	1.1	7.4	26
27		11.3		8.1	27
28	11.1	19.5	1.1	14.6	28
29	11.1	23.4	3.1	17.9	29
30	11.1	25.7	7.3	20.6	30
31	33.3	38.6	24.3	34.8	31
32	22.2	34.1	42.0	35.9	32
33	22.2	54.7	41.1	50.5	33
34	100.0	75.5	81.2	77.5	34
35	166.7	82.3	131.3	96.7	35
36	111.1	127.2	141.9	130.6	36
37	211.1	55.9	73.2	63.6	37
38	111.1	73.6	104.5	82.3	38
39	88.9	88.3	58.8	80.7	39
40	77.8	117.3	81.9	107.4	40
41	11.1	72.3	83.7	74.0	41
42	11.1	33.2	46.4	36.2	42
43		17.8	52.1	26.3	43
44		13.8	4.2	11.0	44
45		6.2	14.3	8.2	45
46		5.2	4.2	4.9	46
47		0.3		0.2	47
TOTAL	1000	1000	1000	1000	
No. SAMPLES	1	8	4	13	
SAMPLING WEIGHT(kg)	280	2386	870	3536	
No. F.MEASURED	90	718	269	1077	
MEAN LENGTH(cm)	36.7	36.8	37.7	37.0	
DEPTH RANGE (m)	53/54	48/82	43/63	43/82	

TABLE XXXVI-A: THORNY SKATE, DIV. 3O, 2006: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	APR	JUN	JUL	OCT	NOV	DEC	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
23					1.9				0.8	0.8	23
24					7.1				3.1	2.9	24
25				3.3	3.7				1.9	1.8	25
26		76.9		11.7	7.0		21.1		4.0	4.2	26
27	20.6	76.9	24.5	7.0	11.6	8.1	36.1	24.5	9.5	10.3	27
28	31.7		5.8	9.9	29.0	8.1	23.0	5.8	17.3	17.1	28
29				28.8	34.5	16.3			25.2	24.2	29
30	20.6	76.9	63.0	30.7	14.5	8.1	36.1	63.0	12.8	14.3	30
31	84.0	76.9	17.3	30.9	75.9	32.5	82.0	17.3	51.0	50.7	31
32	47.5	76.9	53.7	54.0	82.4	24.4	55.6	53.7	51.8	51.9	32
33	152.1		31.5	38.0	71.9	40.7	110.3	31.5	53.9	54.2	33
34	84.0	76.9	97.8	42.9	76.0	16.3	82.0	97.8	44.2	46.0	34
35	68.1		56.3	77.5	85.0	89.4	49.4	56.3	86.5	85.3	35
36	99.8	153.8	131.6	121.3	89.7	48.8	114.6	131.6	72.5	74.5	36
37	41.2		85.7	74.3	71.7	40.7	29.9	85.7	56.8	57.1	37
38	77.7	76.9	84.3	109.2	63.3	97.6	77.5	84.3	83.8	83.7	38
39	47.5	76.9	84.0	132.3	77.6	146.3	55.6	84.0	115.6	114.0	39
40	98.3	76.9	91.2	95.7	92.8	219.5	92.4	91.2	154.6	152.1	40
41	30.2	76.9	63.9	54.0	39.1	56.9	43.0	63.9	49.0	49.3	41
42	50.8		38.8	47.0	20.8	65.0	36.8	38.8	44.5	44.2	42
43	20.6	76.9	38.9	10.3	27.4	24.4	36.1	38.9	24.5	25.0	43
44	20.6			14.0	8.1	24.4	15.0		16.5	16.1	44
45	4.8		31.7	4.3	3.8	24.4	3.5	31.7	13.8	14.1	45
46				2.8	5.1	8.1			6.4	6.1	46
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	2	1	7	12	6	1	3	7	19	29	
SAMPLING WEIGHT(kg)	231	38	362	1388	1232	448	269	362	3069	3700	
No. F.MEASURED	82	13	115	414	398	123	95	115	935	1145	
MEAN LENGTH(cm)	36.2	35.3	37.2	37.0	35.9	38.6	35.9	37.2	37.3	37.3	
DEPTH RANGE (m)	382/505	400/422	332/442	159/560	91/327	358/508	382/505	332/442	91/560	91/560	

TABLE XXXVI-B: THORNY SKATE, DIV. 30, 2006: length composition
(0/000) of the 280mm trawl catches.

LENGTH GROUP	NOV	DEC	4th Q. = YEAR	LENGTH GROUP
19	0.4		0.2	19
20	1.3		0.5	20
21	0.4		0.2	21
22	0.4		0.2	22
23	6.2		2.5	23
24	4.2		1.7	24
25	8.0		3.2	25
26	9.4		3.8	26
27	9.7	1.9	5.0	27
28	10.8	16.5	14.2	28
29	19.5		7.9	29
30	27.1	19.6	22.6	30
31	27.3	56.8	44.9	31
32	23.7	39.2	32.9	32
33	29.1	56.3	45.4	33
34	39.2	105.7	78.9	34
35	52.9	119.4	92.6	35
36	71.5	42.6	54.3	36
37	98.0	175.7	144.4	37
38	121.2	141.9	133.6	38
39	101.2	70.0	82.6	39
40	139.5	91.6	110.9	40
41	85.0	33.2	54.1	41
42	56.9	21.4	35.7	42
43	22.2	5.7	12.3	43
44	15.0		6.0	44
45	16.0	1.3	7.2	45
46	3.7	1.3	2.2	46
TOTAL	1000	1000	1000	
No. SAMPLES	10	3	13	
SAMPLING WEIGHT(kg)	3581	772	4354	
No. F.MEASURED	1095	229	1324	
MEAN LENGTH(cm)	37.6	36.7	37.1	
DEPTH RANGE (m)	89/293	81/180	81/293	

TABLE XXXVII: SPINYTAIL SKATE, DIV. 3L, 2006: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	JAN	FEB	MAR	APR	OCT	1st Q.	2nd Q.	4th Q.	YEAR	LENGTH GROUP
17				11.5			11.5		1.0	17
18				11.5			11.5		1.0	18
19			3.4	11.5		1.2	11.5		2.1	19
20			3.4	11.5		1.2	11.5		2.1	20
21	4.7					2.3			2.1	21
22	7.1	6.8	6.8	11.5		6.9	11.5		7.3	22
23	2.4		20.5	46.0		8.1	46.0		11.4	23
24	9.4	6.8	13.7			10.4			9.3	24
25			13.7	11.5		4.6	11.5		5.2	25
26	4.7	13.5	3.4	11.5		5.8	11.5		6.2	26
27	16.5	6.8	3.4	23.0		10.4	23.0		11.4	27
28	9.4		24.0	34.5		12.7	34.5		14.5	28
29	11.8		17.1	34.5		11.6	34.5		13.5	29
30	33.0	27.0	13.7	23.0		25.5	23.0		24.9	30
31	25.9	13.5	13.7			19.7			17.6	31
32	44.8	20.3	24.0	34.5		33.6	34.5		33.2	32
33	25.9	33.8	51.4	34.5		35.9	34.5		35.3	33
34	35.4	67.6	51.4	57.5		46.3	57.5		46.7	34
35	11.8	13.5	37.7			20.8			18.7	35
36	61.3	27.0	41.1	80.5		48.6	80.5		50.8	36
37	40.1	40.5	47.9	23.0		42.8	23.0		40.5	37
38	77.8	13.5	13.7	23.0	76.9	45.1	23.0	76.9	43.6	38
39	44.8	81.1	27.4	34.5		45.1	34.5		43.6	39
40	54.2	13.5	10.3	23.0		32.4	23.0		31.1	40
41	54.2	47.3	6.8	23.0		37.0	23.0		35.3	41
42	42.5	47.3	44.5	11.5	76.9	44.0	11.5	76.9	41.5	42
43	18.9	27.0	24.0			22.0			19.7	43
44	59.0	54.1	27.4	46.0		47.5	46.0		46.7	44
45	16.5	6.8	20.5	11.5		16.2	11.5		15.6	45
46	40.1	40.5	30.8	23.0		37.0	23.0		35.3	46
47	16.5	6.8	13.7	34.5	76.9	13.9	34.5	76.9	16.6	47
48	16.5	33.8	27.4	23.0		23.1	23.0		22.8	48
49	9.4	13.5	24.0	23.0		15.0	23.0		15.6	49
50	18.9	47.3	24.0	34.5		25.5	34.5		25.9	50
51	21.2	27.0	30.8	11.5	76.9	25.5	11.5	76.9	24.9	51
52	23.6	27.0	34.2	23.0	76.9	27.8	23.0	76.9	28.0	52
53	11.8	40.5	20.5	11.5		19.7	11.5		18.7	53
54	16.5	6.8	20.5			16.2			14.5	54
55	23.6	40.5	34.2	23.0	153.8	30.1	23.0	153.8	31.1	55
56	14.2		30.8	11.5		17.4	11.5		16.6	56
57	7.1	27.0	17.1	23.0		13.9	23.0		14.5	57
58	2.4		3.4			2.3			2.1	58
59			10.3			3.5			3.1	59
60	7.1	13.5	17.1			11.6			10.4	60
61		27.0	10.3		153.8	8.1		153.8	9.3	61
62	14.2	6.8	13.7	23.0		12.7	23.0		13.5	62
63	7.1		6.8	11.5		5.8	11.5		6.2	63
64	2.4	6.8			153.8	2.3		153.8	4.1	64
65										65
66	2.4	20.3	3.4	11.5		5.8	11.5		6.2	66
67										67
68	7.1		3.4	11.5		4.6	11.5		5.2	68
69	2.4	13.5	6.8		76.9	5.8		76.9	6.2	69
70	4.7	20.3	3.4			6.9			6.2	70
71	4.7	6.8	6.8	11.5		5.8	11.5		6.2	71
72	4.7	6.8	6.8	11.5	76.9	5.8	11.5	76.9	7.3	72
73	4.7		10.3	23.0		5.8	23.0		7.3	73
74			10.3			3.5			3.1	74
75			3.4	11.5		1.2	11.5		2.1	75
76	4.7					2.3			2.1	76
77			6.8			2.3			2.1	77
78										78
79										79
80			3.4			1.2			1.0	80
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	27	15	30	9	1	72	9	1	82	
SAMPLING WEIGHT(kg)	1464	570	1111	294	78	3145	294	78	3516	
No. F.MEASURED	424	148	292	87	13	864	87	13	964	
MEAN LENGTH(cm)	42.3	45.4	44.6	41.7	56.7	43.6	41.7	56.7	43.6	
DEPTH RANGE (m)	898/1505	808/1432	1061/1557	870/1500	1242/1273	808/1557	870/1500	1242/1273	808/1557	

TABLE XXXVIII: SPINYTAIL SKATE, DIV. 3M, 2006: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	APR	JUL	AUG	OCT	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
19	35.7				35.7			3.6	19
20									20
21									21
22									22
23	71.4				71.4			7.2	23
24	35.7				35.7			3.6	24
25									25
26	35.7				35.7			3.6	26
27									27
28	71.4		6.0		71.4	4.3		10.9	28
29	35.7				35.7			3.6	29
30			6.0			4.3		3.6	30
31	35.7		6.0		35.7	4.3		7.2	31
32									32
33			6.0			4.3		3.6	33
34	71.4	15.4	35.9		71.4	30.2		32.6	34
35			6.0			4.3		3.6	35
36	35.7	15.4	12.0		35.7	12.9		14.5	36
37		46.2	18.0			25.9		21.7	37
38	71.4	30.8	12.0	125.0	71.4	17.2	125.0	29.0	38
39		15.4	18.0			17.2		14.5	39
40		76.9	29.9	62.5		43.1	62.5	39.9	40
41			24.0			17.2		14.5	41
42	35.7		41.9	62.5	35.7	30.2	62.5	32.6	42
43		61.5	24.0			34.5		29.0	43
44	35.7	46.2	35.9	62.5	35.7	38.8	62.5	39.9	44
45			6.0			4.3		3.6	45
46	35.7	61.5	29.9	125.0	35.7	38.8	125.0	43.5	46
47	35.7	15.4	47.9	62.5	35.7	38.8	62.5	39.9	47
48	35.7	30.8	59.9		35.7	51.7		47.1	48
49	35.7	30.8	24.0		35.7	25.9		25.4	49
50	35.7	15.4	41.9		35.7	34.5		32.6	50
51		61.5	41.9	62.5		47.4	62.5	43.5	51
52	71.4	15.4	41.9		71.4	34.5		36.2	52
53		30.8	35.9	62.5		34.5	62.5	32.6	53
54		46.2	59.9	62.5		56.0	62.5	50.7	54
55	35.7	30.8	24.0		35.7	25.9		25.4	55
56		30.8	59.9			51.7		43.5	56
57	35.7	30.8			35.7	8.6		10.9	57
58									58
59		15.4	6.0			8.6		7.2	59
60	35.7	30.8	24.0		35.7	25.9		25.4	60
61		30.8	12.0	62.5		17.2	62.5	18.1	61
62		30.8	41.9	62.5		38.8	62.5	36.2	62
63	35.7		12.0		35.7	8.6		10.9	63
64		30.8	6.0			12.9		10.9	64
65			6.0			4.3		3.6	65
66		15.4	18.0	62.5		17.2	62.5	18.1	66
67			12.0			8.6		7.2	67
68		15.4	24.0	62.5		21.6	62.5	21.7	68
69		46.2	6.0			17.2		14.5	69
70		15.4	41.9	62.5		34.5	62.5	32.6	70
71		15.4	12.0			12.9		10.9	71
72	35.7		12.0		35.7	8.6		10.9	72
73		15.4	6.0			8.6		7.2	73
74		15.4	6.0			8.6		7.2	74
75									75
76		15.4				4.3		3.6	76
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	2	6	13	2	2	19	2	23	
SAMPLING WEIGHT(kg)	92	387	899	89	92	1286	89	1467	
No. F.MEASURED	28	65	167	16	28	232	16	276	
MEAN LENGTH(cm)	41.5	52.7	51.8	52.1	41.5	52.1	52.1	51.0	
DEPTH RANGE (m)	798/1180	341/516	333/519	449/523	798/1180	333/519	449/523	333/1180	

TABLE XXXIX: SPINYTAIL SKATE, DIV. 3N, 2006:
length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	JUL = 3rd Q.	OCT = 4th Q.	YEAR	LENGTH GROUP
20		35.7	27.0	20
21				21
22				22
23		35.7	27.0	23
24				24
25				25
26				26
27				27
28		35.7	27.0	28
29				29
30				30
31				31
32				32
33		71.4	54.1	33
34		35.7	27.0	34
35				35
36	111.1	71.4	81.1	36
37				37
38		35.7	27.0	38
39		35.7	27.0	39
40				40
41		71.4	54.1	41
42		35.7	27.0	42
43				43
44	111.1		27.0	44
45				45
46	111.1		27.0	46
47				47
48		35.7	27.0	48
49		35.7	27.0	49
50				50
51		107.1	81.1	51
52	111.1	27.0	27.0	52
53		35.7	27.0	53
54	111.1	35.7	54.1	54
55	111.1	35.7	54.1	55
56		35.7	27.0	56
57				57
58				58
59				59
60	111.1	35.7	54.1	60
61				61
62	111.1		27.0	62
63				63
64				64
65		35.7	27.0	65
66		35.7	27.0	66
67				67
68				68
69		35.7	27.0	69
70				70
71		35.7	27.0	71
72	111.1		27.0	72
73		35.7	27.0	73
TOTAL	1000	1000	1000	
No. SAMPLES	1	3	4	
SAMPLING WEIGHT(kg)	55	124	179	
No. F.MEASURED	9	28	37	
MEAN LENGTH(cm)	53.9	47.5	49.1	
DEPTH RANGE (m)	526/748	431/534	431/748	

TABLE XL: SPINYTAIL SKATE, DIV. 3O, 2006: length composition
(0/000) of the 130mm trawl catches.

LENGTH GROUP	OCT = YEAR	LENGTH GROUP
37	142.9	37
38		38
39	142.9	39
40		40
41		41
42		42
43	142.9	43
44	142.9	44
45		45
46	142.9	46
47		47
48		48
49		49
50	142.9	50
51		51
52		52
53	142.9	53
TOTAL	1000	
No. SAMPLES	1	
SAMPLING WEIGHT(kg)	30	
No. F.MEASURED	7	
MEAN LENGTH(cm)	45.1	
DEPTH RANGE (m)	263/396	

TABLE XLI-A: MONKFISH, DIV. 3N, 2006:length composition
(0/000) of the 130mm trawl catches.

LENGTH GROUP	NOV = YEAR	LENGTH GROUP
38	58.8	38
39		39
40		40
41		41
42		42
43	58.8	43
44		44
45		45
46		46
47		47
48		48
49		49
50		50
51		51
52		52
53		53
54	117.6	54
55	58.8	55
56		56
57	58.8	57
58	58.8	58
59		59
60	58.8	60
61		61
62		62
63		63
64	117.6	64
65	58.8	65
66		66
67	58.8	67
68		68
69		69
70		70
71		71
72		72
73	58.8	73
74		74
75		75
76	58.8	76
77	117.6	77
78		78
79		79
80	58.8	80
TOTAL	1000	

No. SAMPLES 1
 SAMPLING WEIGHT(kg) 114
 No. F.MEASURED 17
 MEAN LENGTH(cm) 63.0
 MEAN WEIGHT (g) 6130
 DEPTH RANGE (m) 283/309

TABLE XLI-B: MONKFISH, DIV. 3N, 2006: length composition
(0/000) of the 280mm trawl catches.

LENGTH GROUP	NOV = YEAR	LENGTH GROUP
33	71.4	33
34		34
35		35
36		36
37		37
38		38
39	71.4	39
40		40
41	142.9	41
42	71.4	42
43		43
44		44
45		45
46		46
47		47
48	71.4	48
49	71.4	49
50		50
51		51
52	71.4	52
53	142.9	53
54	71.4	54
55		55
56		56
57		57
58		58
59		59
60	71.4	60
61		61
62	142.9	62
TOTAL	1000	

No. SAMPLES 1
 SAMPLING WEIGHT(kg) 44
 No. F.MEASURED 14
 MEAN LENGTH(cm) 49.7
 MEAN WEIGHT (g) 3131
 DEPTH RANGE (m) 50/55

TABLE XLII-A: MONKFISH, DIV. 30, 2006: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	JUN	JUL	OCT	NOV	DEC	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
28			11.8					3.9	3.5	28
29										29
30			16.3					5.4	4.8	30
31										31
32			13.8					4.6	4.1	32
33			6.9					2.3	2.0	33
34			9.8	4.7				5.5	4.9	34
35			4.9	4.9				4.0	3.6	35
36			27.8	19.5				18.5	16.6	36
37			23.7	9.4				12.3	11.0	37
38		14.5	16.4				14.5	5.4	6.2	38
39			9.4	10.7				8.2	7.4	39
40			26.7	34.0				25.1	22.4	40
41		12.3	35.7	10.4			12.3	16.8	16.1	41
42	111.1		30.7	10.4		111.1		15.2	15.2	42
43		56.0	13.9	18.0			56.0	13.2	17.0	43
44			51.7	83.6				57.2	51.1	44
45		25.6	20.4	49.1			25.6	30.3	29.4	45
46	111.1	48.9	47.7	35.8		111.1	48.9	32.9	35.5	46
47		17.2	41.9	16.9			17.2	22.0	21.2	47
48	111.1	28.5	36.6	21.4		111.1	28.5	22.4	24.2	48
49		68.2	60.4	43.7			68.2	40.9	42.9	49
50	111.1	54.3	41.4	17.6		111.1	54.3	22.1	26.4	50
51		58.4	8.8	35.8			58.4	20.1	23.3	51
52		45.0	82.0	5.2	125.0		45.0	53.3	51.8	52
53		55.2	47.7	18.2	62.5		55.2	36.3	37.6	53
54		11.3	24.0	17.9	125.0		11.3	40.2	37.0	54
55	222.2	66.9	24.0	59.6		222.2	66.9	36.5	42.0	55
56		23.5	18.0	43.7			23.5	26.9	26.2	56
57	111.1	57.9	42.1	47.5		111.1	57.9	36.7	39.7	57
58		57.8	42.8	28.4	62.5		57.8	39.6	40.7	58
59			22.3	27.8	125.0			44.4	39.6	59
60		27.0	12.2		62.5		27.0	15.9	16.7	60
61		17.2	13.5	52.2			17.2	29.5	27.9	61
62			20.4	30.2	62.5			33.1	29.5	62
63		53.8		27.3			53.8	13.1	16.6	63
64	111.1	11.2	16.8	27.6		111.1	11.2	18.8	19.5	64
65		55.3	14.3				55.3	4.7	9.3	65
66		28.5	23.4	11.7			28.5	13.3	14.5	66
67		11.7			125.0		11.7	23.7	22.2	67
68	111.1		12.3	34.4		111.1		20.6	20.0	68
69				34.5				16.5	14.8	69
70			4.9		62.5			13.5	12.0	70
71		17.2		30.2			17.2	14.5	14.5	71
72		14.5					14.5		1.3	72
73				6.5				3.1	2.8	73
74		25.7					25.7		2.4	74
75				6.5				3.1	2.8	75
76		12.3	5.1	29.3	125.0		12.3	39.4	36.4	76
77										77
78			5.1	29.3	62.5			27.6	24.6	78
79		12.3	5.1	6.5			12.3	4.8	5.4	79
80		11.7					11.7		1.1	80
81										81
82										82
83										83
84										84
85										85
86										86
87										87
88			7.4					2.4	2.2	88
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	8	12	8	1	1	8	21	30	
SAMPLING WEIGHT(kg)	38	327	565	511	103	38	327	1179	1544	
No. F. MEASURED	9	73	159	120	16	9	73	295	377	
MEAN LENGTH(cm)	54.4	56.2	50.4	55.6	62.8	54.4	56.2	55.2	55.3	
MEAN WEIGHT (g)	3947	4377	3334	4375	5888	3947	4377	4318	4318	
DEPTH RANGE (m)	400/422	333/620	201/497	129/346	489/513	400/422	333/620	129/513	129/620	

TABLE XLII-B: MONKFISH, DIV. 30, 2006: length composition (0/000)
of the 280mm trawl catches.

LENGTH GROUP	NOV	DEC	4th Q. = YEAR	LENGTH GROUP
32	18.5		10.1	32
33	37.2		20.3	33
34	37.2		20.3	34
35		20.2	9.2	35
36	18.6	78.4	45.8	36
37		39.2	17.8	37
38	84.6		46.2	38
39	37.2		20.3	39
40	37.2		20.3	40
41				41
42	18.6	39.2	28.0	42
43	18.6		10.2	43
44				44
45	37.0		20.2	45
46	37.1	69.0	51.6	46
47		20.2	9.2	47
48				48
49	57.4	78.4	66.9	49
50	38.8	67.8	52.0	50
51				51
52		20.2	9.2	52
53	37.2	99.8	65.6	53
54	47.3	39.2	43.6	54
55	28.6	20.2	24.8	55
56	77.5		42.3	56
57				57
58	38.8	67.8	52.0	58
59	10.1		5.5	59
60				60
61	37.0	40.4	38.6	61
62	55.9	77.4	65.6	62
63	38.8		21.2	63
64	10.1	28.6	18.5	64
65	10.1	48.8	27.7	65
66	18.6	20.2	19.3	66
67	18.6		10.2	67
68		28.6	13.0	68
69	18.5		10.1	69
70				70
71	18.6		10.2	71
72	18.6		10.2	72
73		39.2	17.8	73
74				74
75				75
76		28.6	13.0	76
77				77
78	18.6		10.2	78
79				79
80				80
81	18.6	28.6	23.2	81
TOTAL	1000	1000	1000	
No. SAMPLES	3	3	6	
SAMPLING WEIGHT(kg)	266	159	425	
No. F.MEASURED	62	35	97	
MEAN LENGTH(cm)	52.3	54.9	53.4	
MEAN WEIGHT (g)	3815	4271	4022	
DEPTH RANGE (m)	89/293	108/178	89/293	

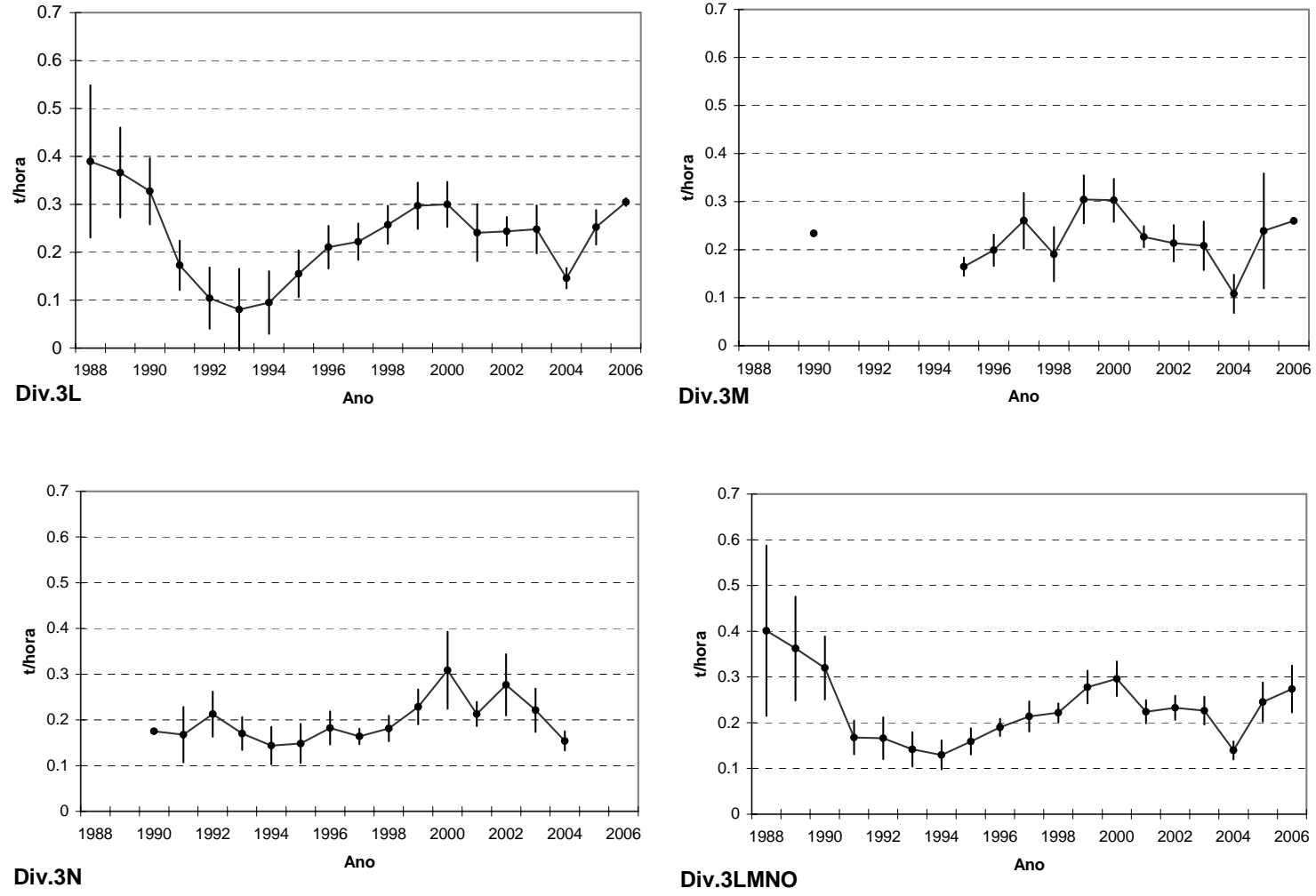


Fig. 1: Greenland halibut trawl catch rates by division, 1988 - 2006.

