

**SCIENTIFIC COUNCIL MEETING – 2015**

PORTUGUESE RESEARCH REPORT FOR 2014

by

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Av. BRASÍLIA 1449-006, LISBOA, PORTUGAL**A. Status of the fisheries**

In 2015, the Portuguese provisional nominal catches proceeding from NAFO Regulatory Sub Area 3 reached 19 467 ton (Table 1-A). Nominal catches increased continuously from 2000 to 2003, when they peaked at 22 680 ton, but declined sharply afterwards (Table I-B); during 2004- 2008 catches stabilized between 11 500 and 13 000 ton. Over recent years (2009-2014) catches increased from around 15 400 ton (2009-2010) to near 16 450 ton (2011-2012) and reached, in 2014, the highest values since 2003 (more 1400 ton relatively to 2013).

The 2014 fishing effort (Table II) and the catches are provisional (data extracted from NAFO Database STATLANT 21A on 15 May 2015 and STATLANT 21B on 9 June 2015), In 2014, 12 trawlers composed the Portuguese fleet that operated in the NAFO area.

Due to the reopening, in 2010, of the fishery for cod in Div 3M (Flemish Cap), this species represents now about 50% of the total catch in this division and more than 25% of the Portuguese catches in all Sub Area 3 – the catches of cod in this division raised more than 800 ton from 2013 to 2014. Catches of redfish, after remaining more or less stable in Div. 3L and 3N, doubled in division 3L and fell more than by half in division 3N. In Div. 3M, after two years of decreases, the catch remains stable; because of that, the total catches of this specie decreased around 3000 ton from 2011 to 2014, representing now around 35% of the total catches in this division. In Div. 3O, the catches of redfish increased about 1000 ton from 2012 to 2013 and remained stable at same level in 2014, but the relative proportion decreased from around 90% to 80% of the catches in this division (due an strong increase in silver hake catches – 500 ton) and were 26% of the Portuguese catches in all Sub Area 3. Redfish remains by far the most important species in the Portuguese commercial catches from Sub Area 3, representing in recent years around 50% of the overall catch.

The catches of roughhead grenadier, after a strong decrease observed in Div. 3L and 3M during 2013, increased four times from 2013 to 2014 (328 ton) been the second highest value since 2004. The shrimp fishery in Div. 3L, that in 2009 its catches reached 20% of the total catch in this division, declined significantly in 2010 and was reduced to values around zero in 2011-2014.

The Greenland halibut catches remains stable in the divisions 3L and 3M, but its total catch decreased 160 ton, due mainly of loss in Div. 3N (100 ton). Greenland halibut together with redfish continues to be the bulk of the catch on Div. 3L (around 85% of the overall catch since 2009). The American plaice catches remains stable in all divisions, except in Div. 3N (loss more of 100 ton). The witch flounder catches almost doubled (due the increase of 80 ton in Div. 3M) and the yellowtail flounder catches, that in 2013 decreased around 400 ton (-80%) in divisions 3N and 3O combined, are now residual and around 30 ton; skates catches less almost 80 ton in division 3N and remains more or less stable in all others divisions; the catch of haddock more than doubled relatively 2013, mainly due the increase of his fishery in Div. 3M. The catches of other species remained more or less stable in all divisions.

The catch in Div. 3M (mainly cod and redfish) continue in 2014, like the most recent years, to represent around 50% of the total catch. This division is, at present, the most important ground for the Portuguese NAFO fishery, but cod replaced redfish as the most important fishery. On division 3O, redfish continues the most important fishery, with almost 90% of the catches and this division represents now around 30% of the year catch. From 2013 to 2014, the catches in Div. 3N fell by half, due mainly of the loss of around 350 ton in redfish fishery and the same value in the bulk of the catches of cod, Greenland halibut, American plaice and skates; despite that, the catches of skates represent now around 45% of the catches in Div. 3N, against only 33% of redfish.

B. Portuguese Annual Sampling Program

1. Catch and effort sampling.

Effort and CPUE data for 2014 Portuguese trawl fishery on the NAFO Regulatory Area were obtained through the revision of skipper logbooks from three trawlers, kindly supplied by its owners. All the information (round weight of the catch by species, fishing effort, positions and depths) has been recorded on a tow-by-tow basis. The vessel conversion factors were used to convert its processed landings in catches.

The daily catch and effort data from the logbook were used to estimate the directed effort and CPUE for each of the target species/stock, as well as the main by-catch species and depth range of the different fisheries, on a monthly basis. From the data available, the majority of the fishing effort was directed towards cod, redfish and Greenland halibut. Data regarding directed effort and catch rates of the Greenland halibut fishery are presented in Table III to IV-B and Fig. 1.

The Greenland halibut CPUE series was updated with the 2014 observed CPUEs. The additive model (Ávila de Melo and Alpoim, 1995), was upgraded in 1998 (Alpoim *et al.*, 1998) and used, like in previous years, to standardize the observed CPUEs, but excluding the vessel factor because the sampling program in recent years was carried out on vessels that were not sampled before. If the vessel factor is applied, these new vessels will increased a lot the noised. Because they are the only vessels sampled in the recent years, we assumed that all vessels belong to the same category what is realistic. From January 1988 till April 1995 each monthly observed CPUE of this series was previously corrected for 130mm mesh size (Ávila de Melo and Alpoim, 1996). In this analysis, any observation corresponding to a month and a trawler with less than 10 hours of directed effort was rejected. The CPUEs are presented in Tables IV and Fig. 1, with the associated standard errors ($\pm$ 2 standard errors in the Figures) and coefficients of variation.

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

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

In Div. 3L catch rates declined prior to the boom of the deep-water fishery (Table IV-A, Fig. 1). However, it is from 1990 to 1991, i.e. from the first to the second year of this new fishery in the Regulatory Area, that CPUEs fell by half. Between 1991 and 1994 catch rates remained stable at a low level. Since then, catch rates gradually increased, reaching an upper level in 1999-2000. Catch rates declined in 2001 and remained stable at that lower level in 2002 and 2003. In 2004 the catch rates decline again, reaching the lowest value since 1994. However, after 2004 the Greenland halibut catch rates recovered continuously and, despite the high variability from 2006 to 2014, the catch rates reached, in this period, the highest values observed of the time series (the Greenland halibut CPUE remains stable from 2013 to 2014).

Div. 3M catch rates despite more noisy follows the same trend as the ones in Div. 3L.

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

2. Biological Sampling

In 2014, biological sampling was obtained from three stern trawlers fishing in Div. 3L, 3M, 3N and 3O during all the year. Apart from species under moratoria, a priority to be sampled whenever they appear in the hauls, biological sampling was conducted for the two most abundant species in each haul, following the NAFO sampling recommendations.

Cod, redfish (*S. mentella*) and American plaice were sampled in Div. 3L, 3M, 3N and 3O (Tab. V). Greenland halibut was sampled in Div. 3L, 3M and 3N. Witch flounder was sampled in Div. 3M, 3N and 3O. Roughhead grenadier was sampled in Div. 3L and 3M. Thorny skate and redfish (*S. marinus*) were sampled only in Div. 3M and white hake only in Div. 3O.

Since 1996, all commercial information is representative of the catch as a whole, although sampling continues to be carried out by sex, with the exception of cod, white hake, Atlantic halibut and haddock. Mean weight and mean weight in the catch are derived from the length-weight relationships calculated from the commercial sampling in 2014 and are presented in Table VI. However, for species/stock with a low sampling level in 2014, the length-weight relationships calculated in previous years were used.

2.1. Catch and by-catch composition of the 2014 trawl fishery (130mm codend mesh size).

The regular mesh size in the codend used by the monitored trawlers fishing groundfish was the 130mm and, when the mesh size is not mentioned it, means that the sample refers to the 130mm mesh size. Nevertheless, some sets in Div. 3N were made with a skate trawl net with 200mm/280mm mesh size in the codend, representing 6% in Div. 3N of the total effort sampled (lengths only). The size of these catches within the overall sampled catch in Div. 3N is about 2% for cod, 18% for American plaice, 100% for yellowtail flounder and 9% for thorny skate.

2.1.1. Cod Div. 3L

Information on length composition of the cod by-catch in Div. 3L is available for March and from May to November, except for August (Table VII, Fig. 2), from 245 m to 471 m depth.

Lengths between 33 cm and 51 cm dominated the catch, with a modal class at 39 cm (mean length and weight of 43.7 cm and 1137 g).

2.1.2. Cod Div. 3M

Information on length composition of the cod trawl catch in Div. 3M is available from February to November, (Table VIII-A, Fig. 3), from 149 m to 541 m depth.

Lengths between 39 cm and 54 cm dominated the catch, with two modal classes at 39 cm and 42 cm (mean length and weight of 47.8 cm and 1216 g).

An annual Div. 3M cod age-length key (3rd and 4th quarters combined) is presented in Table VIII-B and Fig. 3b. This age-length key was used to derive the age composition by quarters and year.

The 2006 to 2008 year classes, 4 to 6 years old in 2014, dominated the trawl catches, being the 2007 year class the most represented (Tab. VIII-C).

2.1.3. Cod Div. 3N

Information on length composition of the cod by-catch in Div. 3N is available for June, August and September (Table IX-A, Fig. 4a), from 42 m to 590 m depth.

Lengths between 36 cm and 51 cm dominated the catch, with a very modal class at 45 cm (mean length and weight of 45.4 cm and 764 g).

2.1.4. Cod Div. 3N 200 mm mesh size

Information on length composition of the cod by-catch in Div. 3N (200 mm mesh size) is available only for October (Table IX-B, Fig. 4b), from 48 m to 53 m depth.

Despite the small sampling (84 fish measured), the data shows that lengths at 54 cm and at 60 cm dominated the catch, with a modal class at 54 cm (mean length and weight of 63.6 cm and 2259 g).

2.1.5. Cod Div. 30

Information on length composition of the cod by-catch in Div. 30 is available from March to October, except for April (Table X, Fig. 5), from 69 m to 457 m depth.

Lengths between 33 cm and 51 cm dominated the catch, with a very clear modal class at 39 cm (mean length and weight of 43.7 cm and 696 g).

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

Information on length composition of the redfish (*S. mentella*) trawl catches in Div. 3L is available from March to November, except for April (Table XI, Fig. 6), from 245 m to 1190 m depth.

Lengths between 20 cm and 24 cm dominated the catch, with a modal class at 22 cm (mean length and weight of 23.9 cm and 184 g).

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

Information on length composition of the redfish (*S. mentella*) trawl catches in Div. 3M is available from February to November (Table XII, Fig. 7), from 145 m to 1078 m depth.

Lengths between 20 cm and 23 cm dominated the catch, with a modal class at 22 cm (mean length and weight of 22.7 cm and 180 g).

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

Information on length composition of the redfish (*S. mentella*) trawl catches in Div. 3N is available for March and April and from June to September, except for July (Table XIII, Fig. 8), from 275 m to 590 m depth.

Lengths between 20 cm and 23 cm dominated the catch, with a modal class at 22 cm (mean length and weight of 23.1 cm and 167 g).

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

Information on length composition of the redfish (*S. mentella*) trawl catches in Div. 3O is available from March to September (Table XIV, Fig. 9), from 159 m to 519 m depth.

Lengths between 19 cm and 23 cm dominated the catches, with a modal class at 21 cm (mean length and weight of 20.2 cm and 125 g).

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

Information on length composition of the redfish (*S. marinus*) trawl catches in Div. 3M is available for May, July and August (Table XV, Fig. 10), from 145 m to 315 m depth.

Lengths between 22 cm and 24 cm and at 28 cm and 30 cm dominated the catches, with a clear modal class at 22 (mean length and weight of 28.8 cm and 371 g).

2.1.11. American plaice Div. 3L

Information on length composition of the American plaice by-catch in Div. 3L is available for May and June and from September to November (Table XVI, Fig. 11), from 245 m to 344 m depth.

Lengths between 26 and 34 cm dominated the catch, with two modal classes at 28 cm and 30 cm (mean length and weight of 32 cm and 313 g).

2.1.12. American plaice Div. 3M

Information on length composition of the American plaice by-catch in Div. 3M is available from February to November, except for April (Table XVII, Fig. 12), from 141 m to 541 m depth.

Lengths between 24 and 34 cm dominated the catch, with a modal class at 30 cm (mean length and weight of 31.8 cm and 304 g).

2.1.13. American plaice Div. 3N

Information on length composition of the American plaice by-catch in Div. 3N is available from June to September, except for July (Table XVIII-A, Fig. 13a), from 42 m to 407 m depth.

Lengths between 28 and 38 cm and at 42 cm and 44 cm dominated the catch, with two modal classes at 34 cm and 36 cm (mean length and weight of 35.9 cm and 452 g).

2.1.14. American plaice Div. 3N 200 mm mesh size

Information on length composition of the American plaice by-catch in Div. 3N (200 mm mesh size) is available only for October (Table XVIII-B, Fig. 13b), from 48 m to 53 m depth.

Despite a small sampling (187 fish measured), the data shows that the lengths between 30 and 44 cm dominated the catch, with a modal class at 44 cm (mean length and weight of 38.3 cm and 570 g).

2.1.15. American plaice Div. 3O

Information on length composition of the American plaice by-catch in Div. 3O is available from April to October (Table XIX, Fig. 14), from 69 m to 458 m depth.

Lengths between 26 and 40 cm dominated the catch, with two modal classes at 30 cm and 32 cm (mean length and weight of 33.4 cm and 364 g).

2.1.16. Greenland halibut Div. 3L

Information on length composition of the Greenland halibut catches in Div. 3L is available from March to November, except for May and September (Table XX, Fig. 15), from 772 m to 1485 m depth.

Lengths between 38 cm and 44 cm and at 50 cm dominated the catch, with a modal class at 40 cm (mean length and weight of 44.4 cm and 837 g).

2.1.17. Greenland halibut Div. 3M

Information on length composition of the Greenland halibut catches in Div. 3M is available from March to July, except for May (Table XXI, Fig. 16), from 749 m to 1148 m depth.

Lengths at 40 cm and 42 cm and between 48 cm and 52 cm dominated the catch, with a two modal classes at 50 cm and 52 cm (mean length and weight of 48.9 cm and 1079 g).

2.1.18. Greenland halibut Div. 3N

Information on length composition of the Greenland halibut catches in Div. 3N is available only for July and August (Table XXII, Fig. 17), from 891 m to 1400 m depth.

Lengths between 40 cm and 52 cm dominated the catch, with a no clear modal class (mean length and weight of 47.7 cm and 991 g).

2.1.19. Witch flounder Div. 3M

Information on length composition of the witch flounder by-catch in Div. 3M is available from September to November (Table XXIII, Fig. 18), from 141 m to 204 m depth.

Lengths between 28 cm and 38 cm, with a very clear modal class at 28 cm (mean length and weight of 33.3 cm and 435 g).

2.1.20. Witch flounder Div. 3N

Information on length composition of the witch flounder by-catch in Div. 3N is available only for August (Table XXIV, Fig. 19), from 470 m to 1100 m depth.

Despite the small sampling (185 fish measured), the data shows that the lengths between 46 cm and 50 cm dominated the catch, with a very clear modal class at 46 cm (mean length and weight of 49.4 cm and 1030 g).

2.1.21. Witch flounder Div. 30

Information on length composition of the witch flounder by-catch in Div. 30 is available from July to September (Table XXV, Fig. 20), from 259 m to 431 m depth.

Lengths between 28 cm and 38 cm dominated the catch, with a modal class at 32 cm (mean length and weight of 33.1 cm and 237 g).

2.1.22. Roughhead grenadier Div. 3L

Information on length composition of the roughhead grenadier catches in Div. 3L is available for March and from June to August (Table XXVI, Fig. 21), from 829 m to 1255 m depth.

Anal fin lengths between 10 cm and 13 cm dominated the catch, with a very clear modal class at 12 cm (mean length and weight of 13.2 cm and 238 g).

2.1.23. Roughhead grenadier Div. 3M

Information on length composition of the roughhead grenadier catch in Div. 3M is available only for March and July (Table XXVII, Fig. 22), from 873 m to 1135 m depth.

Anal fin lengths between 10 cm and 13 cm dominated the catch, with a very clear modal class at 12 cm (mean length and weight of 12.6 cm and 206 g).

2.1.24. Thorny skate Div. 3M

Information on length composition of the thorny skate catches in Div. 3M is available only for February (Table XXVIII), from 377 m to 391 m depth.

Because the small sampling (1 samples, 22 fish measured) we not take any conclusion about the dominated lengths in the catch (mean length and weight of 64 cm and 3074 g).

2.1.35. White hake Div. 30

Information on length composition of the white hake catches in Div. 30 is available from May to September, except for July (Table XXIX, Fig. 23), from 251 m to 431 m depth.

Despite the large range of lengths, the data show that lengths between 43 cm and 46 cm, dominated the catch (mean length and weight of 45.8 cm and 836 g).

3. Acknowledgements

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4. References

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TABLE I-A: PORTUGUESE NOMINAL TRAWL CATCHES (mt) IN NAFO AREA, 2014
(data extracted from NAFO Database Statlant 21A on 15 May 2015).

SPECIES	DIVISION				TOTAL 2014
	3L	3M	3N	3O	
Cod	34	5251	23	123	5431
Redfish	1156	3475	257	4819	9707
American plaice	25	114	29	109	277
Yellowtail flounder			14	15	29
Witch flounder	5	109	15	79	208
Greenland halibut	1325	577	62	2	1966
Atlantic halibut	22	37	20	70	149
Roughhead grenadier	118	210	4		332
Roundnose grenadier	22	25			47
Anarhichas spp.		3			3
Hadocck		137	1	66	204
Pollock					
White hake			1	107	108
Red hake					
Silver Hake				532	532
Capelin					
Skates	14	27	328	78	447
Monkfish			3	24	27
Squid					
Shrimp					
Unidentified					
TOTAL	2721	9965	757	6024	19467

TABLE I - B: PORTUGUESE NOMINAL TRAWL CATCHES (mt) IN NAFO DIV. 3LMNO (data extracted from NAFO Database Statlant 21A on 15 May 2015).

SPECIES / YEAR	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001
Cod	4814	2946	2832	1528	1003	434	255	177	105	281	602	488	361
Redfish	9504	8953	9983	10904	9361	7768	7758	9155	8832	6637	9219	6346	5561
American plaice	407	468	198	160	298	355	443	376	371	517	748	634	636
Yellowtail flounder	94	267	71	27	71	145		134	188	68	287	123	350
Witch flounder	128	108	128	71	131	221	124	141	150	591	485	436	576
Greenland halibut	2124	2051	2493	2257	2075	1976	1873	2326	2256	1888	4369	4318	5027
Atlantic halibut	96	70	46	56	469	23	32	43	20	59	89	47	45
Roughhead grenadier	88	488	251	83	266	50	34	77	262	381	302	508	613
Roundnose grenadier	10	39	48	27	198	29	37	54					
Anarhichas spp.	4	6	18	13	41	25	16	28	32	45	112	88	142
Hadocck	78	64	13	1	3	1	2		6	23	141	78	22
Pollock	1									4	114		
White hake	81	19	25	17	24	55	62	102	157	1266	4090	1678	
Red hake	1	1	69	1		3	2	4	18	13	2	1968	273
	30	35								6			
Capelin													
Skates	496	427	435	304	1045	1252	1058	1003	576	1550	1942	1362	883
Monkfish	7	4	1	11	3	13	35	34	6	73	165	71	
Squid			1	2	29	5	2	17		11			
Shrimp		5		15	332					50		16	420
Unidentified	110	279	68	11	77	2	1	216	6	15	13	322	40
TOTAL	18073	16230	16680	15488	15426	12357	11734	13887	12985	13478	22680	18483	14949

TABLE I - B: cont.

SPECIES / YEAR	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988
Cod	192	325	550	1545	1316	1670	2640	3657	5986	13362	15142	24130	12963
Redfish	5678	6082	2370	1126	2152	3297	8614	9831	6584	12165	17803	19032	19137
American plaice	400	718	361	389	289	170	346	323	453	1183	715	1821	1813
Yellowtail flounder	151	428	87					21			11	5	
Witch flounder	230	509	381	350	238	385	579	291	851	1980	2257	15	10
Greenland halibut	4688	3997	3245	3347	3313	1942	5970	8811	10547	13961	11171	3616	4194
Atlantic halibut	28	51	29	15	9	18	45	50	79	229	96		152
Roughhead grenadier	397	1302	1088	765	787	1377	2224	1996	2004	4053	3211	290	911
Roundnose grenadier													
Anarhichas spp.	61	552	139	184	121	1358	3219	2303	1697	2842	1941		
Hadocck	12	11	5	42		2	10	10	165	82	17		
Pollock							13	41	29	424	11		
White hake													8
Red hake	43	76	19	54	124	230	270	365	467	1010	469	104	
Capelin											14		
Skates	672	2168	1105	908	796	2062	6239	7604	7019	23304	13557	652	1075
Monkfish									37	7		15	
Squid			1		4							47	
Shrimp	289	227	203	170		17							
Unidentified	1	115	38	115	23	15	12	245	325	725	779	158	6
TOTAL	12842	16561	9621	9010	9172	12543	30181	35548	36243	75327	67194	49885	40269

TABLE II : PORTUGUESE TRAWL EFFORT IN FISHING DAYS
IN NAFO Div. 3LMNO (data extracted from NAFO.
(Database Statlant 21B on 9 June 2015)

YEAR	3L	3M	3N	3O	Total geral
2000	519	248	297	329	1393
2001	770	477	361	262	1870
2002	607	263	532	490	1892
2003	503	257	783	753	2296
2004	435	400	406	464	1705
2005	492	407	218	359	1476
2006	408	454	106	517	1485
2007	295	359	162	421	1237
2008	307	464	179	213	1163
2009	512	727	237	188	1664
2010	495	643	214	242	1594
2011	432	770	320	233	1755
2012	235	400	337	299	1271
2013	395	681	350	258	1684
2014 (a)	410	765	182	297	1654

a) not extracted from Database Statlant 21B, provisional

TABLE III: Portuguese trawl fishery cpue's and bycatch by month and division for 2014.

DIVISION	TARGET SPECIES	MONTH	DEPTH RANGE (m)		CPUE (ton/hour)	MAIN BYCATCH		WITCH FLOUNDER		TOTAL
			MIN.	MAX.		SPECIES	%	BYCATCH (%)	BYCATCH (%)	
3M	COD	FEB	292	450	0.842	RED	8.6	0.0	9.2	
3M	COD	MAR	322	500	2.555	RED	2.3	0.0	2.5	
3M	COD	APR	260	489	1.390	RED	2.9	0.0	3.2	
3M	COD	MAY	183	400	0.901	RED	7.1	0.0	7.7	
3M	COD	JUL	198	458	0.475	RED	20.4	0.3	24.2	
3M	COD	AUG	145	213	4.772	RED	1.5	0.2	3.1	
3M	COD	SEP	141	368	1.693	RED	4.1	1.3	9.3	
3M	COD	OCT	280	377	1.091	RED	15.7	0.0	20.1	
3L	RED	APR	803	808	0.125	GHL	45.6	3.4	56.9	
3L	RED	JUN	269	381	3.133	COD	10.8	0.0	12.6	
3L	RED	JUL	279	310	2.578	COD	0.8	0.0	0.8	
3L	RED	AUG	295	310	3.420	RHG	3.0	0.0	5.2	
3L	RED	SEP	248	337	3.942	COD	8.0	0.0	10.9	
3L	RED	OCT	248	307	5.692	COD	7.6	0.0	9.9	
3L	RED	NOV	244	326	3.796	COD	7.7	0.0	12.9	
3M	RED	FEB	428	555	2.851	COD	5.9	0.0	6.6	
3M	RED	MAR	410	578	0.377	COD	15.8	0.0	16.6	
3M	RED	MAY	231	342	0.281	COD	58.3	0.0	59.6	
3M	RED	JUL	277	458	0.702	COD	16.3	0.0	16.8	
3M	RED	SEP	227	368	0.454	COD	44.0	0.0	50.2	
3N	RED	MAR	320	580	0.730	COD	3.2	0.0	3.6	
3N	RED	APR	289	650	0.345	HAL	3.8	0.9	6.4	
3N	RED	MAY	292	369	0.224	HAL	11.0	0.0	17.1	
3N	RED	JUN	331	356	14.007	COD	5.2	0.0	7.4	
3N	RED	AUG	444	1100	0.709	WIT	2.7	2.7	7.4	
3N	RED	SEP	246	738	6.180	COD	15.7	0.0	19.7	
3O	RED	MAR	185	407	2.939	COD	2.6	1.8	7.0	
3O	RED	APR	225	519	2.897	COD	3.3	1.9	8.0	
3O	RED	MAY	120	394	2.831	COD	3.4	1.0	7.3	
3O	RED	JUN	159	426	2.762	COD	11.2	0.0	18.5	
3O	RED	JUL	170	457	2.749	HAL	0.7	0.1	1.5	
3O	RED	AUG	198	488	1.656	COD	4.1	1.1	9.6	
3O	RED	SEP	94	486	2.303	COD	7.8	2.9	19.6	
3O	RED	OCT	255	263	6.857	COD	9.7	2.2	18.2	
3L	GHL	MAR	1237	1404	0.750	RHG	10.9	0.0	13.8	
3L	GHL	APR	800	1083	0.363	RED	4.9	0.3	9.2	
3L	GHL	MAY	755	1263	0.241	RHG	5.6	0.0	10.3	
3L	GHL	JUN	928	940	0.747	RHG	11.1	0.0	16.5	
3L	GHL	JUL	722	1271	0.408	RHG	1.5	0.7	2.6	
3L	GHL	AUG	887	1235	0.225	RHG	1.4	0.0	3.2	
3L	GHL	OCT	777	1254	0.608	RHG	10.7	5.4	17.6	
3L	GHL	NOV	1180	1230	0.524	RHG	8.5	0.0	9.8	
3M	GHL	MAR	1109	1148	0.501	RHG	9.2	0.0	14.4	
3M	GHL	APR	783	1210	0.287	RNG	19.5	0.0	27.4	
3M	GHL	MAY	928	983	0.276	RHG	18.0	0.0	18.0	
3M	GHL	JUN	739	841	0.246	RHG	12.3	0.0	15.7	
3M	GHL	JUL	918	1211	0.282	RNG	12.0	0.0	12.9	
3N	GHL	MAR	896	930	0.168	SKA	19.6	0.0	20.0	
3N	GHL	APR	841	934	0.352	RHG	23.1	1.7	29.0	
3N	GHL	MAY	845	990	0.232	RHG	12.3	2.4	26.3	
3N	GHL	JUL	891	1033	0.895	WIT	4.4	4.4	5.7	
3N	GHL	AUG	782	1400	0.243	RHG	6.5	2.5	10.8	
3N	RHG	APR	912	934	0.201	GHL	54.5	0.0	59.0	
3O	HKW	SEP	251	286	0.500	COD	36.3	13.0	77.2	
3N	SKA	AUG	42	61	0.700	COD	3.1	0.0	5.9	
3N	SKA	OCT	48	53	0.607	PLA	22.5	0.0	41.4	

TABLE IV - A: GREENLAND HALIBUT TRAWL CATCH RATES, 1988-2014: 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	0.455	0.083	36.4							0.412	0.087	42.3	1988
1989	0.433	0.073	50.7							0.390	0.072	55.7	1989
1990	0.364	0.039	36.8	0.148			0.173			0.312	0.036	43.7	1990
1991	0.244	0.049	45.2				0.127	0.031	42.2	0.183	0.036	55.3	1991
1992	0.176	0.030	54.7				0.258	0.032	42.8	0.247	0.032	61.8	1992
1993	0.127	0.007	7.6				0.172	0.021	41.8	0.223	0.025	41.4	1993
1994	0.110	0.003	3.9				0.111	0.017	36.9	0.154	0.031	56.3	1994
1995	0.131	0.010	22.1	0.157	0.012	16.6	0.123	0.024	50.9	0.150	0.016	48.5	1995
1996	0.167	0.022	48.0	0.187	0.022	34.5	0.172	0.019	29.6	0.165	0.012	40.5	1996
1997	0.191	0.012	20.5	0.243	0.023	27.0	0.130	0.009	9.2	0.187	0.015	36.0	1997
1998	0.274	0.017	22.8	0.235	0.024	34.8	0.210	0.019	30.4	0.253	0.012	29.3	1998
1999	0.293	0.024	26.1	0.342	0.039	33.8	0.261	0.020	23.0	0.299	0.018	33.5	1999
2000	0.268	0.024	23.6	0.288	0.021	16.0	0.303	0.043	28.2	0.276	0.023	32.9	2000
2001	0.209	0.023	29.5	0.204	0.011	13.8	0.193	0.017	20.1	0.204	0.014	30.3	2001
2002	0.219	0.016	23.6	0.223	0.030	44.7	0.269	0.032	23.6	0.218	0.017	38.9	2002
2003	0.221	0.026	36.7	0.217	0.031	40.4	0.205	0.021	24.6	0.220	0.019	42.3	2003
2004	0.122	0.016	39.5	0.103	0.024	68.7	0.142	0.010	19.5	0.137	0.014	56.3	2004
2005	0.211	0.017	11.3	0.299	0.086	40.8				0.225	0.023	20.8	2005
2006	0.448	0.049	26.8	0.254	0.044	29.9				0.350	0.045	38.1	2006
2007	0.655	0.085	31.6	0.402	0.065	32.2				0.525	0.068	40.9	2007
2008	0.445	0.035	19.4	0.425	0.026	12.3				0.407	0.020	15.8	2008
2009	0.719	0.091	38.0	0.634	0.048	21.2				0.653	0.049	32.2	2009
2010	0.415	0.035	27.0	0.371	0.020	9.4	0.474			0.397	0.028	26.0	2010
2011	0.780	0.073	23.2	0.631	0.082	29.2				0.688	0.060	29.1	2011
2012	0.362	0.031	12.5	0.312						0.337	0.033	17.3	2012
2013	0.457	0.049	27.1	0.281	0.020	14.7	0.387	0.040	14.9	0.384	0.031	28.9	2013
2014	0.441	0.071	44.4	0.286	0.040	25.2	0.416	0.205	88.8	0.403	0.063	58.6	2014

TABLE IV - B: GREENLAND HALIBUT TRAWL CATCH RATES,
1988-2014 mean cpue's by division corrected for the year, month
and vessel of each observation.

	CPUE	ST.ERROR	C.V.	
3L	0.325	0.008	35.3	3L
3M	0.287	0.008	30.4	3M
3N	0.209	0.008	38.4	3N
3LMN	0.283	0.005	38.4	3LMN

TABLE V: Intensity of the trawl sampling during 2014, by species, division and month.

SPECIES	DIV.	MONTH	N° OF SAMPLES	N° FISH MEASURED	SAMPLING WEIGHT(Kg)	OTOLITHS	
						N°	LENGTH RANGE (cm)
COD	3L	MAR	1	125	143	-	-
COD	3L	MAY	1	91	128	-	-
COD	3L	JUN	7	804	1202	-	-
COD	3L	JUL	1	88	90	-	-
COD	3L	SEP	10	1288	1444	75	29-86
COD	3L	OCT	9	1029	1120	124	19-62
COD	3L	NOV	3	361	311		
COD	3M	FEB	13	1632	2622	-	-
COD	3M	MAR	16	2278	2687	-	-
COD	3M	APR	2	276	321	-	-
COD	3M	MAY	12	1552	1984	-	-
COD	3M	JUN	3	409	525	-	-
COD	3M	JUL	16	2434	2979	71	43-100
COD	3M	AUG	4	491	582	108	27-85
COD	3M	SEP	8	998	1483	137	26-112
COD	3M	OCT	1	166	212	-	-
COD	3M	NOV	2	252	530	76	26-97
COD	3N	JUN	1	82	115	-	-
COD	3N	AUG	4	340	324	-	-
COD	3N	SEP	7	938	1134	-	-
COD	3N	OCT	1	84	270	-	-
COD	3O	MAR	1	100	120	-	-
COD	3O	MAY	1	79	103	-	-
COD	3O	JUN	7	682	944	-	-
COD	3O	JUL	4	375	377	-	-
COD	3O	AUG	1	81	63	-	-
COD	3O	SEP	10	1341	1282	-	-
COD	3O	OCT	2	309	370	-	-
REDFISH (<i>S. mentella</i>)	3L	MAR	4	488	266	-	-
REDFISH (<i>S. mentella</i>)	3L	MAY	1	222	46	-	-
REDFISH (<i>S. mentella</i>)	3L	JUN	12	2308	697	-	-
REDFISH (<i>S. mentella</i>)	3L	JUL	1	200	41	69	22-35
REDFISH (<i>S. mentella</i>)	3L	AUG	1	200	48	-	-
REDFISH (<i>S. mentella</i>)	3L	SEP	8	2094	670	-	-
REDFISH (<i>S. mentella</i>)	3L	OCT	8	2017	645	-	-
REDFISH (<i>S. mentella</i>)	3L	NOV	4	1104	340	-	-
REDFISH (<i>S. mentella</i>)	3M	FEB	11	1922	374	-	-
REDFISH (<i>S. mentella</i>)	3M	MAR	18	3003	993	-	-
REDFISH (<i>S. mentella</i>)	3M	APR	1	173	52	-	-
REDFISH (<i>S. mentella</i>)	3M	MAY	12	2304	613	-	-
REDFISH (<i>S. mentella</i>)	3M	JUN	3	560	139	-	-
REDFISH (<i>S. mentella</i>)	3M	JUL	14	3657	1334	80	21-35
REDFISH (<i>S. mentella</i>)	3M	AUG	4	706	203	-	-
REDFISH (<i>S. mentella</i>)	3M	SEP	7	1248	432	-	-
REDFISH (<i>S. mentella</i>)	3M	OCT	1	193	72	-	-
REDFISH (<i>S. mentella</i>)	3M	NOV	1	133	74	-	-

TABLE V: (cont.)

SPECIES	DIV.	MONTH	N° OF SAMPLES	N° FISH MEASURED	SAMPLING WEIGHT(Kg)	OTOLITHS	
						N°	LENGTH RANGE (cm)
REDFISH (<i>S. mentella</i>)	3N	MAR	1	100	13	-	-
REDFISH (<i>S. mentella</i>)	3N	APR	1	100	19	100	21-30
REDFISH (<i>S. mentella</i>)	3N	JUN	1	213	46	-	-
REDFISH (<i>S. mentella</i>)	3N	AUG	1	210	47	-	-
REDFISH (<i>S. mentella</i>)	3N	SEP	7	1721	473	-	-
REDFISH (<i>S. mentella</i>)	3O	MAR	1	100	15	-	-
REDFISH (<i>S. mentella</i>)	3O	APR	1	100	15	91	18-25
REDFISH (<i>S. mentella</i>)	3O	MAY	2	326	44	100	20-26
REDFISH (<i>S. mentella</i>)	3O	JUN	7	1548	256	-	-
REDFISH (<i>S. mentella</i>)	3O	JUL	1	202	29	61	18-31
REDFISH (<i>S. mentella</i>)	3O	AUG	2	384	49	-	-
REDFISH (<i>S. mentella</i>)	3O	SEP	9	1834	232	-	-
REDFISH (<i>S. marinus</i>)	3M	MAY	4	372	88	-	-
REDFISH (<i>S. marinus</i>)	3M	JUL	4	814	444	50	28-44
REDFISH (<i>S. marinus</i>)	3M	AUG	1	78	19	-	-
AMERICAN PLAICE	3L	MAY	1	111	41	-	-
AMERICAN PLAICE	3L	JUN	5	631	224	-	-
AMERICAN PLAICE	3L	SEP	10	1373	663	-	-
AMERICAN PLAICE	3L	OCT	8	945	461	-	-
AMERICAN PLAICE	3L	NOV	3	278	111	-	-
AMERICAN PLAICE	3M	FEB	4	300	37	-	-
AMERICAN PLAICE	3M	MAR	15	1257	234	-	-
AMERICAN PLAICE	3M	MAY	2	68	20	-	-
AMERICAN PLAICE	3M	JUN	3	243	100	-	-
AMERICAN PLAICE	3M	JUL	13	1687	712	-	-
AMERICAN PLAICE	3M	AUG	2	143	63	-	-
AMERICAN PLAICE	3M	SEP	8	962	446	-	-
AMERICAN PLAICE	3M	OCT	1	147	76	-	-
AMERICAN PLAICE	3M	NOV	2	333	160	-	-
AMERICAN PLAICE	3N	JUN	1	101	44	-	-
AMERICAN PLAICE	3N	AUG	4	379	170	-	-
AMERICAN PLAICE	3N	SEP	3	464	206	-	-
AMERICAN PLAICE	3N	OCT	1	187	111	-	-
AMERICAN PLAICE	3O	APR	1	100	138	-	-
AMERICAN PLAICE	3O	MAY	2	219	161	79	35-70
AMERICAN PLAICE	3O	JUN	7	781	297	-	-
AMERICAN PLAICE	3O	JUL	1	107	47	-	-
AMERICAN PLAICE	3O	AUG	1	104	32	-	-
AMERICAN PLAICE	3O	SEP	8	1216	541	-	-
AMERICAN PLAICE	3O	OCT	2	327	142	-	-

TABLE V: (cont.)

SPECIES	DIV.	MONTH	N° OF SAMPLES	N° FISH MEASURED	SAMPLING WEIGHT(Kg)	OTOLITHS	
						N°	LENGTH RANGE (cm)
GREENLAND HALIBUT	3L	MAR	8	1906	1426	-	-
GREENLAND HALIBUT	3L	APR	2	200	275	-	-
GREENLAND HALIBUT	3L	JUN	13	3017	2805	-	-
GREENLAND HALIBUT	3L	JUL	2	400	527	97	38-72
GREENLAND HALIBUT	3L	AUG	2	400	567	-	-
GREENLAND HALIBUT	3L	OCT	12	2878	2120	-	-
GREENLAND HALIBUT	3L	NOV	3	963	715	-	-
GREENLAND HALIBUT	3M	MAR	6	1171	935	-	-
GREENLAND HALIBUT	3M	APR	2	200	259	100	41-67
GREENLAND HALIBUT	3M	JUN	1	113	101	-	-
GREENLAND HALIBUT	3M	JUL	1	199	346	39	42-65
GREENLAND HALIBUT	3N	JUL	2	413	543	91	40-76
GREENLAND HALIBUT	3N	AUG	2	400	475	-	-
ROUGHHEAD GRENADIER	3L	MAR	3	480	231	-	-
ROUGHHEAD GRENADIER	3L	JUN	2	333	159	-	-
ROUGHHEAD GRENADIER	3L	JUL	1	200	34	-	-
ROUGHHEAD GRENADIER	3L	AUG	1	200	71	-	-
ROUGHHEAD GRENADIER	3M	MAR	3	452	182	-	-
ROUGHHEAD GRENADIER	3M	JUL	1	200	42	-	-
WITCH FLOUNDER	3M	SEP	3	318	126	-	-
WITCH FLOUNDER	3M	OCT	1	124	49	-	-
WITCH FLOUNDER	3M	NOV	1	113	48	-	-
WITCH FLOUNDER	3N	AUG	1	185	124	-	-
WITCH FLOUNDER	3O	JUL	1	86	72	-	-
WITCH FLOUNDER	3O	AUG	1	77	20	-	-
WITCH FLOUNDER	3O	SEP	10	1398	592	-	-
WHITE HAKE	3O	MAY	1	68	97	-	-
WHITE HAKE	3O	JUN	3	247	375	-	-
WHITE HAKE	3O	AUG	1	55	61	-	-
WHITE HAKE	3O	SEP	3	334	363	-	-
THORNY SKATE	3M	FEB	1	22	69	-	-

TABLE VI: Length-weight relationship by species, stock and sex in 2014.

Species	Stock	Sex	a	b	n	r^2	Length interval (cm)
COD	2J3KL	T	0.0162	2.9332	199	0.991	19-86
COD	3M	T	0.0105	2.9888	1170	0.983	26-112
COD	3NO	T	0.0047	3.1244	100	0.963	47-65
GHL	2J3KLMNO	F	0.0119	2.9209	480	0.995	32-72
GHL	2J3KLMNO	M	0.0070	3.0511	355	0.991	32-76
GHL	2J3KLMNO	T	0.0087	2.9974	835	0.995	32-76
PLA	3LNO	F	0.0044	3.1970	98	0.987	35-65
PLA	3LNO	M	0.0043	3.1872	75	0.960	37-63
PLA	3LNO	T	0.0054	3.1403	173	0.991	35-65
PLA	3M	F	0.0403	2.5676	86	0.954	16-41
PLA	3M	M	0.0517	2.4676	56	0.967	14-38
PLA	3M	T	0.0429	2.5504	142	0.967	14-41
REB	3LN	F	0.0849	2.3982	127	0.952	20-31
REB	3LN	M	0.0386	2.6429	171	0.965	20-32
REB	3LN	T	0.0462	2.5880	298	0.960	20-32
REB	3M	F	0.0182	2.9203	319	0.993	13-43
REB	3M	M	0.0119	3.0507	381	0.991	13-44
REB	3M	T	0.0147	2.9883	700	0.991	13-44
REB	3O	F	0.7828	1.7046	185	0.958	7-30
REB	3O	M	0.0423	2.6129	220	0.975	18-31
REB	3O	T	0.6570	1.7645	405	0.950	7-31
REG	3M	F	0.0108	3.0572	48	0.982	19-44
REG	3M	M	0.0060	3.2250	49	0.992	16-42
REG	3M	T	0.0081	3.1379	97	0.989	16-44

TABLE VII: COD, DIV. 3L, 2014: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	MAR	MAY	JUN	JUL	SEP	OCT	NOV	1st Q.	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
18						1.8					1.3	0.5	18
21						2.1					1.5	0.6	21
24			0.5		1.6	10.0	7.6		0.5	1.6	9.3	4.2	24
27			3.8		8.5	40.4	38.7		3.6	8.4	39.9	18.6	27
30			9.5		35.7	71.6	80.2		9.0	35.4	74.1	41.7	30
33	24.0		31.7		53.5	132.1	190.0	24.0	29.9	53.2	149.1	82.4	33
36	88.0		56.1		118.9	139.6	154.1	88.0	53.1	118.2	143.8	113.0	36
39	168.0	11.0	173.9		166.3	188.7	196.0	168.0	164.9	165.4	190.9	175.2	39
42	128.0	54.9	196.5		149.4	149.3	93.3	128.0	188.7	148.5	132.9	147.8	42
45	80.0	120.9	126.7		190.9	113.5	89.6	80.0	126.4	189.8	106.5	135.3	45
48	144.0	340.7	146.8		119.2	55.3	57.0	144.0	157.4	118.6	55.8	104.4	48
51	296.0	219.8	166.8	22.7	77.1	28.8	56.9	296.0	169.7	76.8	37.0	101.2	51
54	32.0	219.8	56.0	34.1	50.0	43.3	17.7	32.0	65.0	49.9	35.8	45.4	54
57	8.0	22.0	20.0	34.1	17.1	7.7	11.4	8.0	20.1	17.2	8.8	13.6	57
60		11.0	8.3	45.5	6.1	5.2	7.6		8.4	6.3	5.9	5.9	60
63	16.0		1.1	306.8	1.6	9.4		16.0	1.1	3.3	6.7	5.5	63
66			1.8	284.1	2.2	0.9			1.7	3.8	0.6	1.8	66
69	8.0		0.6	113.6	0.7			8.0	0.6	1.4		1.4	69
72	8.0			136.4				8.0		0.8		1.1	72
75				22.7						0.1		0.04	75
78													78
81													81
84					1.4					1.4		0.5	84
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	1	7	1	10	9	3	1	8	11	12	32	
SAMPLING WEIGHT(kg)	143	128	1202	90	1444	1120	311	143	1331	1533	1431	4438	
No. F.MEASURED	125	91	804	88	1288	1029	361	125	895	1376	1390	3786	
MEAN LENGTH(cm)	47.3	51.0	46.1	66.6	44.3	41.1	40.2	47.3	46.4	44.5	40.8	43.7	
MEAN WEIGHT (g)	1406	1676	1292	3662	1169	956	897	1406	1313	1183	939	1137	
DEPTH RANGE (m)	380/471	245/325	269/344	279/288	253/331	249/301	246/295	380/471	245/344	253/331	246/301	245/471	

TABLE VIII-A: COD, DIV. 3M, 2014: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	1st Q.	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
21						0.5							0.2		0.1	21
24				1.4	3.9	4.2		3.2		11.6		1.5	2.5	5.6	1.3	24
27	0.5	1.0	1.1	4.3	7.7	16.6	6.4	11.9		12.5	1.0	4.3	11.7	6.1	5.4	27
30	7.0	9.9	2.3	14.3	10.8	46.1	10.6	46.1		14.3	9.6	11.6	34.1	7.0	17.8	30
33	8.6	18.3	5.7	30.6	24.6	48.9	35.1	53.3	36.1	40.2	17.4	25.3	45.6	38.1	28.8	33
36	57.3	52.7	8.0	49.6	45.9	53.4	71.9	82.5	18.1	47.4	53.1	41.7	68.4	32.3	54.3	36
39	212.6	140.0	53.6	263.6	226.4	155.7	171.4	123.6	90.4	181.4	147.0	221.1	151.3	134.6	168.8	39
42	124.8	160.2	46.7	232.5	262.7	211.8	155.4	78.5	132.5	37.6	156.8	204.2	152.8	86.4	167.4	42
45	85.2	120.0	83.3	121.4	111.9	107.7	177.5	113.5	78.3	38.5	116.7	113.3	132.9	59.0	119.6	45
48	154.1	127.1	153.0	68.4	61.5	51.5	132.5	111.3	162.7	57.3	129.7	82.3	96.8	111.5	105.7	48
51	162.7	163.3	308.3	107.8	112.9	80.0	86.4	122.7	96.4	132.1	163.2	143.8	95.0	113.7	135.4	51
54	97.1	90.2	182.7	44.0	53.4	63.8	54.8	112.4	174.7	172.4	90.9	69.8	75.4	173.6	81.9	54
57	10.6	23.8	106.2	28.8	49.8	50.7	22.8	36.2	48.2	52.8	22.5	45.5	37.0	50.4	34.1	57
60	16.7	21.4	20.5	22.6	19.0	26.3	31.8	16.3	48.2	12.5	20.9	21.7	25.2	30.9	22.7	60
63	8.2	17.6	9.1	4.5	3.7	26.0	9.6	8.2	18.1	41.9	16.7	5.2	15.1	29.7	13.2	63
66	11.9	20.2	10.3	3.3	5.7	16.8		15.0	30.1	29.4	19.4	4.9	10.6	29.8	12.8	66
69	17.1	14.1	1.1	2.5		18.1	11.7	11.5	12.0	28.6	14.4	1.9	14.0	20.1	10.9	69
72	13.2	10.1	8.0	0.5		12.2	7.5	11.9	6.0	32.2	10.4	1.8	10.5	18.7	8.2	72
75	1.3	3.7		0.1		3.7	7.5	10.0	24.1	14.3	3.4	0.1	6.9	19.4	3.9	75
78	7.9	2.6				2.0		13.1	18.1		3.1		4.6	9.3	2.8	78
81	0.6	3.4				0.7	4.6	4.5	6.0	4.5	3.1		3.2	5.3	2.3	81
84	2.6	0.4				0.8	2.5	3.9		10.8	0.6		2.3	5.2	1.1	84
87						1.1		1.6		8.0			0.9	3.9	0.4	87
90						0.7		1.0		7.2			0.5	3.5	0.2	90
93								2.4		8.0			0.7	3.9	0.3	93
96						0.3				4.5			0.1	2.2	0.1	96
99								3.1					0.9		0.3	99
102																102
105																105
108						0.3							0.1		0.04	108
111								2.3					0.7		0.2	111
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	13	16	2	12	3	16	4	8	1	2	29	17	28	3	77	
SAMPLING WEIGHT(kg)	2622	2687	321	1984	525	2979	582	1483	212	530	5309	2830	5043	742	13925	
No. F.MEASURED	1632	2278	276	1552	409	2434	491	998	166	252	3910	2237	3923	418	10488	
MEAN LENGTH(cm)	48.4	48.8	52.0	45.2	45.7	46.9	47.0	48.6	51.8	52.3	48.7	46.5	47.4	52.0	47.8	
MEAN WEIGHT (g)	1252	1278	1464	993	1023	1195	1150	1379	1557	1738	1276	1081	1235	1645	1216	
DEPTH RANGE (m)	292/528	388/541	408/450	183/432	250/286	222/320	154/175	154/368	280/377	149/202	292/541	183/450	154/368	149/377	149/541	

TABLE VIII-B: COD, DIV. 3M, 2014: Age length key.

LENGTH GROUP	AGES										TOTAL	LENGTH GROUP
	1	2	3	4	5	6	7	8	9	10		
21		1									1	21
24		3		1							4	24
27		2	2	6							10	27
30			6	8							14	30
33			1	22							23	33
36				18	5						23	36
39			1	16	8						25	39
42				6	16	1					23	42
45			1	5	17	1					24	45
48				5	21	3					29	48
51			1	3	23	4					31	51
54				3	22	12					37	54
57				2	11	14					27	57
60					6	14	2				22	60
63					2	10	3	1			16	63
66					2	8	5				15	66
69						10	6	1			17	69
72						9	2	1			12	72
75						2	4	2			8	75
78						3	1	1			5	78
81						2	3	2			7	81
84							2	1			3	84
87						1	2		1		4	87
90							2	1			3	90
93							1	2			3	93
96							1	1			2	96
99							1	2		1	4	99
102												102
105												105
108										1	1	108
111									1		1	111
TOTAL		6	12	95	133	94	35	15	2	2	394	

TABLE VIII-C: COD, DIV. 3M, 2014: age composition (0/000), mean length (cm) and mean weight (kg) at age, of the 130mm trawl catches.

AGE GROUP	1st Q.			2nd Q.			3rd Q.			4th Q.			YEAR			AGE GROUP
	%	MEAN LENGTH	MEAN WEIGHT	%	MEAN LENGTH	MEAN WEIGHT	%	MEAN LENGTH	MEAN WEIGHT	%	MEAN LENGTH	MEAN WEIGHT	%	MEAN LENGTH	MEAN WEIGHT	
2	0.2	28.0	0.221	2.0	26.3	0.185	4.4	26.5	0.190	5.4	25.7	0.172	2.1	26.4	0.189	2
3	21.1	42.3	0.831	25.1	40.9	0.754	33.6	37.0	0.575	17.4	40.4	0.740	26.1	39.7	0.706	3
4	270.8	41.9	0.778	321.9	41.3	0.739	323.4	40.0	0.684	239.8	41.4	0.767	300.9	41.1	0.734	4
5	538.9	48.0	1.149	535.7	47.1	1.092	474.3	47.4	1.110	456.9	49.7	1.285	516.1	47.6	1.124	5
6	141.3	58.0	2.077	109.0	55.0	1.728	130.9	58.7	2.158	207.7	60.4	2.330	130.4	57.6	2.029	6
7	22.4	69.5	3.417	5.6	65.1	2.785	24.0	72.3	3.928	52.4	74.2	4.265	18.8	70.5	3.618	7
8	5.3	73.9	4.121	0.6	67.8	3.143	8.2	78.5	5.026	19.4	80.3	5.379	5.2	76.4	4.633	8
9							0.9	106.0	12.169	1.0	88.0	6.788	0.3	104.8	11.806	9
10							0.4	103.1	10.943				0.1	103.1	10.943	10
TOTAL	1000			1000			1000			1000			1000			

TABLE IX-A: COD, DIV. 3N, 2014: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	JUN	AUG	SEP	2nd Q.	3rd Q.	YEAR	LENGTH GROUP
27			10.4		10.1	9.9	27
30	24.4		26.6	24.4	25.8	25.8	30
33	12.2		17.3	12.2	16.8	16.7	33
36	109.8		114.5	109.8	111.2	111.1	36
39	390.2		173.2	390.2	168.2	173.1	39
42	170.7	8.4	159.5	170.7	155.1	155.5	42
45	122.0	64.5	198.5	122.0	194.6	193.0	45
48	61.0	75.3	101.9	61.0	101.1	100.2	48
51	61.0	47.8	108.6	61.0	106.8	105.8	51
54	36.6	240.6	56.5	36.6	61.8	61.3	54
57	12.2	218.0	13.7	12.2	19.6	19.4	57
60		186.9	9.9		15.0	14.7	60
63		92.2	4.3		6.8	6.7	63
66		40.4	4.3		5.3	5.2	66
69		15.8			0.5	0.4	69
72		6.4	0.9		1.1	1.0	72
75		3.6			0.1	0.1	75
TOTAL	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	4	7	1	11	12	
SAMPLING WEIGHT(kg)	115	324	1134	115	1458	1573	
No. F.MEASURED	82	340	938	82	1278	1360	
MEAN LENGTH(cm)	43.2	57.7	45.1	43.2	45.5	45.4	
MEAN WEIGHT (g)	634	1546	743	634	766	764	
DEPTH RANGE (m)	331/356	42/51	246/590	331/356	42/590	42/590	

TABLE IX-B: COD, DIV. 3N, 2014: length composition (0/000) of the 200mm trawl catches.

LENGTH GROUP	OCT = YEAR	LENGTH GROUP
42	11.9	42
45		45
48	23.8	48
51	95.2	51
54	273.8	54
57	83.3	57
60	178.6	60
63	23.8	63
66	47.6	66
69	35.7	69
72	35.7	72
75	11.9	75
78	83.3	78
81	23.8	81
84	23.8	84
87		87
90	35.7	90
93		93
96	11.9	96
TOTAL	1000	
No. SAMPLES	1	
SAMPLING WEIGHT(kg)	270	
No. F.MEASURED	84	
MEAN LENGTH(cm)	63.6	
MEAN WEIGHT (g)	2259	
DEPTH RANGE (m)	48/53	

TABLE X: COD, DIV. 3O, 2014: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	MAR	MAY	JUN	JUL	AUG	SEP	OCT	1st Q.	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
24			4.1		12.3	4.9	2.4		3.8	5.5	2.4	4.9	24
27					24.7	9.9	4.0			11.1	4.0	8.0	27
30			30.8		37.0	36.5	23.2		28.9	36.0	23.2	33.4	30
33		12.7	66.8		74.1	89.5	103.0		63.5	86.8	103.0	81.0	33
36		50.6	191.3		148.1	144.3	98.0		182.7	142.6	98.0	149.3	36
39		25.3	226.5		209.9	259.2	278.9		214.2	250.9	278.9	240.8	39
42		12.7	79.6	3.6	209.9	123.8	104.7		75.5	130.2	104.7	114.6	42
45	70.0	25.3	70.5	10.7	98.8	94.7	88.3	70.0	67.8	93.9	88.3	87.1	45
48	160.0	189.9	130.6	56.7	148.1	70.8	90.4	160.0	134.3	77.9	90.4	92.9	48
51	350.0	316.5	111.1	131.4	37.0	71.2	79.9	350.0	123.6	68.8	79.9	85.2	51
54	210.0	316.5	64.3	82.9		63.7	70.1	210.0	79.7	58.0	70.1	65.2	54
57	150.0	50.6	12.2	276.5		10.7	6.4	150.0	14.5	13.5	6.4	14.7	57
60	30.0		2.4	119.1		6.6	13.5	30.0	2.2	7.6	13.5	6.7	60
63	30.0		5.2	112.4		4.4	6.4	30.0	4.9	5.5	6.4	5.6	63
66				83.4		3.3	7.1			4.2	7.1	3.2	66
69			2.4	34.0		0.3	7.1		2.2	0.7	7.1	1.3	69
72			2.4	64.6		1.3			2.2	2.1		2.0	72
75				19.0		1.0	4.7			1.2	4.7	1.0	75
78				3.7		2.3	9.5			2.1	9.5	1.9	78
81				2.0		0.5	2.4			0.5	2.4	0.4	81
84						0.5				0.5		0.3	84
87						0.5				0.5		0.3	87
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	1	7	4	1	10	2	1	8	15	2	26	
SAMPLING WEIGHT(kg)	120	103	944	377	63	1282	370	120	1048	1723	370	3260	
No. F.MEASURED	100	79	682	375	81	1341	309	100	761	1797	309	2967	
MEAN LENGTH(cm)	53.8	51.6	43.9	60.4	41.8	43.2	44.6	53.8	44.3	43.3	44.6	43.7	
MEAN WEIGHT (g)	1219	1087	694	1799	580	670	761	1219	718	678	761	696	
DEPTH RANGE (m)	327/367	393/394	254/426	245/457	312/364	94/427	69/263	327/367	254/426	94/457	69/263	69/457	

TABLE XI: REDFISH (*S. mentella*), DIV. 3L, 2014: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	MAR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	1st Q.	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
11			0.9			0.5				0.8	0.5		0.4	11
12			4.7		5.0	1.4	0.6	1.2		4.4	1.5	0.8	2.0	12
13		4.5	6.8		10.0	6.5	2.0	3.7		6.7	6.2	2.4	4.9	13
14		4.5	13.2		20.0	8.8	8.4	7.1		12.7	8.7	8.1	9.6	14
15		18.0	11.9	10.0	5.0	11.2	11.6	9.4		12.2	10.8	11.1	11.3	15
16		31.5	17.9	10.0	20.0	15.7	21.8	20.2		18.7	15.5	21.4	18.7	16
17		27.0	21.2	15.0	25.0	21.7	23.6	14.5		21.5	21.4	21.3	21.4	17
18	1.1	36.0	38.1	10.0	60.0	31.2	29.6	24.0	1.1	38.0	31.0	28.2	31.9	18
19	5.5	81.1	42.7	45.0	120.0	45.0	51.8	33.8	5.5	45.0	48.6	47.2	47.0	19
20	8.5	112.6	91.6	100.0	95.0	77.8	100.6	81.3	8.5	92.9	80.2	95.7	89.7	20
21	7.7	130.6	129.7	100.0	150.0	103.5	122.5	96.2	7.7	129.8	105.5	115.8	116.3	21
22	11.8	193.7	175.7	70.0	135.0	146.2	169.7	111.1	11.8	176.8	140.3	154.7	156.1	22
23	15.4	121.6	142.5	100.0	105.0	147.1	134.0	86.9	15.4	141.2	141.8	122.0	133.9	23
24	15.4	49.5	67.1	95.0	100.0	72.7	62.8	32.2	15.4	66.0	75.6	55.0	64.9	24
25	27.2	27.0	28.3	90.0	15.0	38.6	43.0	28.1	27.2	28.2	41.1	39.2	36.7	25
26	26.6	36.0	19.3	130.0	65.0	26.5	18.4	25.7	26.6	20.3	35.6	20.3	25.4	26
27	44.1	13.5	17.6	75.0	20.0	26.3	18.7	32.9	44.1	17.4	29.4	22.4	23.3	27
28	54.5	40.5	24.9	30.0	5.0	34.8	34.7	54.2	54.5	25.9	33.1	39.7	33.6	28
29	86.3		24.0	45.0	10.0	27.5	28.0	40.7	86.3	22.6	27.9	31.3	27.8	29
30	154.9	9.0	35.1	45.0	25.0	49.6	32.8	58.1	154.9	33.5	48.1	39.3	40.6	30
31	102.6	31.5	32.5	15.0		29.0	30.2	54.8	102.6	32.4	26.7	36.5	32.1	31
32	140.5	13.5	21.7	5.0	10.0	32.8	25.0	68.2	140.5	21.2	29.8	36.0	29.9	32
33	73.8	9.0	15.6			28.0	10.8	43.2	73.8	15.2	24.7	19.1	19.8	33
34	58.7		5.9	5.0		8.6	10.4	20.7	58.7	5.6	8.0	13.1	9.3	34
35	44.8	9.0	3.0	5.0		6.5	5.5	10.2	44.8	3.3	6.1	6.7	5.6	35
36	10.1		3.6			0.4	1.7	3.9	10.1	3.4	0.3	2.3	2.0	36
37	43.7		0.0			0.5	0.3	6.8	43.7	0.0	0.5	1.9	0.9	37
38	32.2		1.9			0.9	1.2	8.2	32.2	1.8	0.8	3.0	2.0	38
39	7.8		0.0					5.7	7.8	0.0		1.5	0.6	39
40	18.2		1.1					9.3	18.2	1.1		2.4	1.2	40
41	8.5		1.1			0.4		5.9	8.5	1.0	0.3	1.5	1.0	41
42			0.4					1.4		0.3		0.4	0.2	42
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	4	1	12	1	1	8	8	4	4	13	10	12	39	
SAMPLING WEIGHT(kg)	266	46	697	41	48	670	645	340	266	744	759	986	2754	
No. F.MEASURED	488	222	2308	200	200	2094	2017	1104	488	2530	2494	3121	8633	
MEAN LENGTH(cm)	31.4	22.7	23.4	24.4	22.1	24.1	23.6	26.0	31.4	23.4	24.0	24.2	23.9	
MEAN WEIGHT (g)	351	158	174	188	146	187	176	231	351	173	185	190	184	
DEPTH RANGE (m)	772/1027	245/325	282/1190	302/310	303/310	248/336	248/300	262/307	772/1027	245/1190	248/336	248/307	245/1190	

TABLE XII: REDFISH (*S. mentella*), DIV. 3M, 2014: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	1st Q.	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
11				0.3								0.2			0.003	11
12	0.9	3.1		0.1							1.3	0.1				1.1
13	6.5	6.2		0.6	0.4		3.8				6.5	0.5	0.1		5.6	13
14	11.1	10.0	5.8	7.4	2.3	6.4	5.7	5.1			10.9	6.0	6.3		10.3	14
15	11.4	12.6	11.6	8.3	5.8	7.4	10.5	10.1			11.6	7.7	7.6		11.1	15
16	20.1	19.9	11.6	14.6	9.9	10.6	28.5	9.1			20.1	13.3	10.9		18.8	16
17	14.5	19.7	23.1	25.5	30.4	17.4	12.3	13.6			15.5	26.8	17.1		15.8	17
18	43.9	24.9	34.7	33.8	8.9	15.6	35.1	21.2	10.4		40.5	27.1	16.1	8.9	37.4	18
19	77.3	62.6	17.3	29.0	31.3	48.7	46.2	27.9			74.7	29.3	48.0		70.7	19
20	169.2	103.7	63.6	86.4	87.6	41.1	99.7	52.9	15.5	7.5	157.5	86.1	42.5	14.4	142.6	20
21	161.5	157.1	161.8	106.9	124.1	58.1	103.1	97.5	10.4	15.0	160.7	113.0	60.2	11.0	147.9	21
22	226.6	186.0	225.4	187.3	190.5	63.5	167.0	164.2		30.1	219.3	189.2	68.7	4.3	200.9	22
23	93.8	121.6	109.8	83.8	141.1	69.0	123.9	158.9	15.5		98.8	100.0	73.0	13.3	95.7	23
24	60.2	46.8	52.0	36.4	79.6	72.0	38.4	64.9	67.4	22.6	57.8	48.5	71.2	60.9	59.2	24
25	12.5	30.4	11.6	28.1	51.3	71.6	33.9	30.9	57.0	7.5	15.7	33.9	69.5	49.9	22.4	25
26	31.4	22.0	17.3	19.6	19.6	74.9	31.3	31.8	88.1	45.1	29.7	19.5	72.6	81.9	34.6	26
27	14.3	13.4	28.9	24.4	23.7	70.7	24.5	19.1	62.2	22.6	14.1	24.3	68.1	56.5	20.7	27
28	21.6	28.8	57.8	39.8	40.5	71.7	45.0	24.0	124.4	67.7	22.9	40.5	69.6	116.2	28.8	28
29	3.1	22.1	17.3	37.0	17.3	53.8	20.5	37.7	114.0	60.2	6.5	31.2	52.6	106.3	12.5	29
30	14.7	31.9	80.9	74.1	51.4	59.0	67.6	59.7	150.3	142.9	17.8	68.2	59.1	149.2	23.7	30
31	2.9	26.5	23.1	43.5	21.2	53.8	49.5	75.9	145.1	218.0	7.1	37.0	54.4	155.6	13.3	31
32	1.3	15.5	34.7	46.4	14.0	48.9	19.5	34.9	46.6	120.3	3.9	37.3	47.9	57.2	9.7	32
33	0.4	8.7	5.8	32.2	26.0	34.3	13.5	22.2	20.7	82.7	1.9	29.8	33.5	29.6	6.1	33
34		5.2	5.8	11.2	17.3	14.9	10.3	14.3	10.4	37.6	0.9	12.7	14.8	14.3	2.8	34
35	0.4	4.4		4.0	2.3	9.7	5.0	6.5	31.1	30.1	1.1	3.4	9.5	30.9	2.2	35
36	0.2	3.7		7.4	3.5	7.8	2.7	5.0	15.5	15.0	0.8	6.1	7.7	15.5	1.7	36
37		3.0		4.4		2.9		3.7		30.1	0.5	3.1	2.8	4.3	0.9	37
38		2.6		4.2		4.7	2.6	3.6	10.4	22.6	0.5	3.0	4.6	12.1	1.0	38
39		2.7		0.3		3.0		2.0			0.5	0.2	2.9		0.8	39
40		2.1		2.3		4.5		2.1	5.2	15.0	0.4	1.6	4.3	6.6	0.9	40
41		0.9		0.5		3.0		1.0		7.5	0.2	0.4	2.9	1.1	0.5	41
42		0.1		0.1		0.7					0.02	0.1	0.7		0.1	42
43		1.6				0.4					0.3		0.4		0.3	43
44		0.1				0.2					0.01		0.2		0.0	44
45		0.004									0.001				0.001	45
46		0.004									0.001				0.001	46
47		0.004									0.001				0.001	47
48		0.004									0.001				0.001	48
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	11	18	1	12	3	14	4	7	1	1	29	16	25	2	72	
SAMPLING WEIGHT(kg)	374	993	52	613	139	1334	203	432	72	74	1367	804	1970	146	4286	
No. F.MEASURED	1922	3003	173	2304	560	3657	706	1248	193	133	4925	3037	5611	326	13899	
MEAN LENGTH(cm)	21.9	23.3	24.0	24.9	24.1	26.4	24.1	25.2	29.2	31.2	22.2	24.7	26.3	29.4	22.7	
MEAN WEIGHT (g)	156	199	211	244	215	285	219	250	363	443	164	235	283	375	180	
DEPTH RANGE (m)	377/529	380/1078	428/441	183/432	255/296	228/391	145/176	160/368	280/377	149/190	377/1078	183/441	145/391	149/377	145/1078	

TABLE XIII: REDFISH (*S. mentella*), DIV. 3N, 2014: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	MAR	APR	JUN	AUG	SEP	1st Q.	2nd Q.	3rd Q.	YEAR	LENGTH GROUP
11					4.1			3.7	3.1	11
12					3.2			3.0	2.5	12
13			4.7		9.9		2.9	9.1	8.0	13
14			9.4	9.5	16.5		5.7	15.9	14.1	14
15			18.8	9.5	18.0		11.4	17.3	16.0	15
16			9.4	28.6	19.9		5.7	20.6	18.0	16
17			28.2	38.1	32.3		17.1	32.8	29.7	17
18			14.1	71.4	32.9		8.6	36.0	31.3	18
19			32.9	109.5	60.3		20.0	64.2	56.4	19
20	350.0		122.1	185.7	88.6	350.0	74.2	96.4	100.2	20
21	240.0	120.0	122.1	166.7	112.2	240.0	121.3	116.6	120.6	21
22	100.0	260.0	230.0	109.5	147.0	100.0	241.8	143.9	156.2	22
23	170.0	290.0	150.2	38.1	146.1	170.0	205.0	137.4	147.6	23
24	70.0	160.0	65.7	52.4	61.9	70.0	102.7	61.1	67.1	24
25	30.0	120.0	28.2	23.8	38.4	30.0	64.2	37.2	40.7	25
26	10.0	20.0	32.9	23.8	25.7	10.0	27.8	25.5	25.4	26
27	20.0	10.0	42.3	28.6	17.0	20.0	29.6	17.9	19.6	27
28	10.0	10.0	18.8	33.3	27.7	10.0	15.3	28.1	25.9	28
29			18.8	33.3	34.1		11.4	34.1	30.0	29
30		10.0	14.1	19.0	21.9		12.5	21.7	19.8	30
31			23.5	9.5	33.1		14.3	31.2	28.0	31
32			4.7	4.8	12.6		2.9	11.9	10.4	32
33			9.4	4.8	15.6		5.7	14.7	13.1	33
34					6.3			5.8	4.8	34
35					9.8			9.0	7.5	35
36					3.7			3.4	2.8	36
37					0.9			0.8	0.7	37
38					0.6			0.6	0.5	38
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	1	1	1	7	1	2	8	11	
SAMPLING WEIGHT(kg)	13	19	46	47	473	13	65	520	598	
No. F.MEASURED	100	100	213	210	1721	100	313	1931	2344	
MEAN LENGTH(cm)	22.2	23.6	23.0	22.1	23.2	22.2	23.2	23.1	23.1	
MEAN WEIGHT (g)	142	167	161	148	171	142	163	169	167	
DEPTH RANGE (m)	320/522	310/325	331/356	466/500	275/590	320/522	310/356	275/590	275/590	

TABLE XIV: REDFISH (*S. mentella*), DIV. 30, 2014: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	MAR	APR	MAY	JUN	JUL	AUG	SEP	1st Q.	2nd Q.	3rd Q.	YEAR	LENGTH GROUP
6							2.3			1.2	0.7	6
7							6.1			3.3	1.8	7
8							13.1			7.1	3.9	8
9							20.8			11.2	6.2	9
10				2.1			9.8		1.0	5.3	3.4	10
11			1.0	5.8			12.8		3.0	6.9	5.1	11
12			1.0	10.3		12.7	13.2		5.1	9.2	7.2	12
13			5.1	13.1		16.5	46.6		8.0	27.8	18.8	13
14			6.1	21.8	19.8	34.3	58.0		12.3	42.8	28.9	14
15			10.2	32.6	19.8	99.3	97.7		18.8	74.7	49.4	15
16			17.3	59.5	24.8	101.8	106.9		33.9	81.5	59.5	16
17			18.3	68.1	64.4	122.2	85.9		38.2	85.4	63.4	17
18		10.0	27.4	110.8	19.8	150.2	106.7		62.8	87.8	75.0	18
19		20.0	30.5	133.2	89.1	98.0	95.1		75.7	93.8	83.8	19
20	100.0	170.0	79.2	149.0	163.4	73.7	101.0	100.0	125.1	115.2	118.9	20
21	200.0	340.0	256.5	159.9	163.4	73.7	82.3	200.0	225.3	105.1	157.7	21
22	280.0	280.0	294.4	122.9	123.8	83.9	60.6	280.0	213.9	83.3	142.9	22
23	250.0	120.0	178.6	52.6	99.0	24.2	29.3	250.0	112.0	49.3	80.8	23
24	50.0	50.0	34.9	20.8	69.3	25.5	13.0	50.0	30.8	31.9	31.9	24
25	60.0	10.0	23.1	15.4	34.7	28.0	15.5	60.0	17.6	23.3	21.9	25
26	10.0		16.4	8.5	29.7	29.3	9.3	10.0	10.3	18.6	14.9	26
27	10.0			6.2	24.8	7.6	6.8	10.0	2.8	12.3	8.3	27
28	20.0			4.8	19.8	3.8	4.3	20.0	2.2	8.9	6.4	28
29	10.0			1.0	29.7	7.6	2.5	10.0	0.5	11.4	6.8	29
30	10.0			1.5		3.8	0.4	10.0	0.7	0.8	1.0	30
31					5.0	3.8				2.1	1.2	31
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	1	2	7	1	2	9	1	10	12	23	
SAMPLING WEIGHT(kg)	15	15	44	256	29	49	232	15	315	310	640	
No. F.MEASURED	100	100	326	1548	202	384	1834	100	1974	2420	4494	
MEAN LENGTH(cm)	23.0	22.0	21.9	20.0	21.9	19.4	18.1	23.0	21.1	19.4	20.2	
MEAN WEIGHT (g)	158	146	143	121	147	113	101	158	134	117	125	
DEPTH RANGE (m)	355/382	225/519	162/269	159/411	337/372	312/436	251/486	355/382	159/519	251/486	159/519	

TABLE XV: REDFISH (*S. marinus*), DIV. 3M, 2014: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	MAY	JUL	AUG	2nd Q.	3rd Q.	YEAR	LENGTH GROUP
15	2.9			2.9		1.9	15
16	4.2		25.6	4.2	3.2	3.9	16
17	9.6		25.6	9.6	3.2	7.4	17
18	19.0		25.6	19.0	3.2	13.6	18
19	37.3		51.3	37.3	6.4	26.7	19
20	68.1		12.8	68.1	1.6	45.4	20
21	52.4	1.2	12.8	52.4	2.7	35.5	21
22	146.2	1.2	153.8	146.2	20.3	103.3	22
23	95.1		307.7	95.1	38.5	75.8	23
24	91.6	3.7	102.6	91.6	16.1	65.8	24
25	42.1	6.0	51.3	42.1	11.6	31.7	25
26	71.9	13.8	38.5	71.9	16.9	53.2	26
27	15.8	19.9	12.8	15.8	19.0	16.9	27
28	86.2	17.0	76.9	86.2	24.5	65.1	28
29	45.0	30.0	51.3	45.0	32.7	40.8	29
30	72.6	64.3	12.8	72.6	57.9	67.5	30
31	46.4	60.0	12.8	46.4	54.1	49.0	31
32	25.4	39.4	12.8	25.4	36.1	29.0	32
33	24.0	40.4	12.8	24.0	36.9	28.4	33
34	30.7	49.4		30.7	43.2	35.0	34
35	3.8	79.7		3.8	69.7	26.3	35
36	7.6	91.9		7.6	80.4	32.4	36
37	1.9	73.9		1.9	64.6	23.3	37
38		96.4			84.3	28.8	38
39		101.5			88.8	30.3	39
40		89.8			78.6	26.8	40
41		23.2			20.3	6.9	41
42		17.0			14.9	5.1	42
43		22.2			19.4	6.6	43
44		21.3			18.6	6.4	44
45		11.7			10.2	3.5	45
46		9.4			8.2	2.8	46
47		6.9			6.0	2.0	47
48		2.7			2.4	0.8	48
49		3.6			3.2	1.1	49
50		1.7			1.5	0.5	50
51		0.5			0.4	0.1	51
52							52
53		0.5			0.4	0.1	53
TOTAL	1000	1000	1000	1000	1000	1000	
No. SAMPLES	4	4	1	4	5	9	
SAMPLING WEIGHT(kg)	88	444	19	88	463	550	
No. F.MEASURED	372	814	78	372	892	1264	
MEAN LENGTH(cm)	25.7	36.4	24.1	25.7	34.9	28.8	
MEAN WEIGHT (g)	239	688	190	239	625	371	
DEPTH RANGE (m)	191/297	277/315	145/160	191/297	145/315	145/315	

TABLE XVI: AMERICAN PLAICE, DIV. 3L, 2014: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	MAY	JUN	SEP	OCT	NOV	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
14					3.3			0.8	0.3	14
16		2.2		5.3	12.3	1.9		7.0	3.1	16
18	9.0	14.5	1.3	10.3	21.2	13.7	1.3	13.1	8.9	18
20	9.0	33.7	7.7	24.2	57.8	30.2	7.7	32.7	22.9	20
22	9.0	47.0	14.1	62.5	77.2	41.6	14.1	66.2	40.8	22
24	36.0	98.1	33.4	74.2	155.3	89.3	33.4	94.7	70.7	24
26	45.0	123.2	46.5	105.5	79.1	112.1	46.5	98.8	82.9	26
28	45.0	286.2	82.7	142.8	192.3	252.1	82.7	155.3	152.9	28
30	171.2	141.7	152.0	163.0	189.3	145.9	152.0	169.7	157.2	30
32	126.1	124.9	179.0	133.7	46.8	125.1	179.0	111.7	139.9	32
34	297.3	58.8	124.2	89.7	53.5	92.5	124.2	80.5	99.6	34
36	162.2	28.7	73.6	47.5	36.4	47.5	73.6	44.7	56.1	36
38	54.1	19.7	81.7	66.1	46.6	24.5	81.7	61.1	59.5	38
40	18.0	10.2	72.2	29.2	11.4	11.3	72.2	24.7	38.9	40
42	18.0	11.2	57.1	23.6	10.8	12.1	57.1	20.4	31.9	42
44			58.8	15.5	6.7		58.8	13.2	26.7	44
46			9.8	2.6			9.8	1.9	4.3	46
48			1.8	2.7			1.8	2.0	1.4	48
50			3.1	1.6			3.1	1.2	1.6	50
52										52
54			1.0				1.0		0.4	54
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	5	10	8	3	6	10	11	27	
SAMPLING WEIGHT(kg)	41	224	663	461	111	265	663	572	1500	
No. F.MEASURED	111	631	1373	945	278	742	1373	1223	3338	
MEAN LENGTH(cm)	33.5	29.5	34.7	31.3	28.9	30.0	34.7	30.7	32.0	
MEAN WEIGHT (g)	339	231	397	291	228	247	397	275	313	
DEPTH RANGE (m)	245/325	269/344	253/331	249/283	246/295	245/344	253/331	246/295	245/344	

TABLE XVII: AMERICAN PLAICE, DIV. 3M, 2014: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB	MAR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	1st Q.	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
14	2.2									1.1				0.3	14
16	15.3	5.1		17.2					3.9	10.2	8.6		2.6	3.5	16
18	30.5	26.4		73.4	5.5		2.7		3.9	28.5	36.6	3.0	2.6	11.5	18
20	71.3	63.7	44.8	125.1	16.7		4.8		24.9	67.5	84.9	7.4	16.3	28.4	20
22	116.1	116.7	44.2	78.2	42.3	7.8	19.5		20.9	116.4	61.2	24.0	13.7	49.9	22
24	226.6	193.9	119.5	125.7	58.6	18.6	41.9	6.8	72.2	210.2	122.6	42.9	49.5	93.4	24
26	145.3	208.2	117.7	131.6	67.5	55.0	77.8	13.6	93.1	176.9	124.6	71.5	65.6	102.2	26
28	236.2	185.1	72.9	119.5	125.6	161.9	71.1	68.0	152.2	210.6	96.1	99.9	123.1	133.1	28
30	106.5	127.1	163.1	157.2	173.7	177.4	185.4	108.8	53.5	116.8	160.2	181.0	72.7	149.4	30
32	22.4	46.7	72.9	97.9	155.1	192.9	96.9	95.2	91.5	34.6	85.4	127.5	92.8	95.9	32
34	24.9	24.9	174.4	30.9	119.4	110.0	133.5	183.7	56.1	24.9	102.8	126.1	100.3	94.0	34
36	2.5	1.2	102.7	21.2	58.6	55.0	56.8	149.7	112.8	1.8	62.1	57.0	125.6	50.1	36
38		1.1	44.2	7.1	48.1	106.9	80.7	115.6	123.3	0.6	25.7	75.8	120.7	58.2	38
40			14.9	11.9	38.2	61.9	136.5	156.5	68.2		13.4	98.1	98.8	67.4	40
42			14.3	3.1	39.4	26.4	49.6	81.6	59.0		8.7	43.2	66.8	32.6	42
44			14.3		26.2	10.8	26.1	6.8	45.9		7.2	23.8	32.4	17.5	44
46					19.5	11.6	2.8		3.9			8.7	2.6	5.2	46
48					3.6	3.9	9.8	6.8	5.2			7.2	5.8	4.7	48
50					0.9		2.8	6.8	3.9			1.8	4.9	1.6	50
52					0.6		1.3		1.3			0.9	0.8	0.6	52
54									3.9				2.6	0.3	54
56															56
58															58
60					0.6							0.2		0.1	60
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	4	15	2	3	13	2	8	1	2	19	5	23	3	50	
SAMPLING WEIGHT(kg)	37	234	20	100	712	63	446	76	160	271	120	1221	235	1847	
No. F.MEASURED	300	1257	68	243	1687	143	962	147	333	1557	311	2792	480	5140	
MEAN LENGTH(cm)	26.5	26.9	31.2	27.1	32.7	33.6	34.4	36.4	33.8	26.7	29.2	33.8	34.7	31.8	
MEAN WEIGHT (g)	185	191	285	202	321	342	367	413	359	188	244	351	378	304	
DEPTH RANGE (m)	506/529	380/541	206/235	255/296	198/311	154/176	141/368	152/179	149/202	380/541	206/296	141/368	149/202	141/541	

TABLE XVIII-A: AMERICAN PLAICE, DIV. 3N, 2014: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	JUN	AUG	SEP	2nd Q.	3rd Q.	YEAR	LENGTH GROUP
16			2.7		2.4	2.3	16
18	9.9		5.6	9.9	5.0	5.2	18
20	29.7		16.4	29.7	14.8	15.4	20
22	29.7		17.9	29.7	16.3	16.8	22
24	9.9	10.9	35.6	9.9	33.3	32.4	24
26	69.3	48.5	35.9	69.3	37.1	38.3	26
28	148.5	111.9	59.7	148.5	64.6	67.7	28
30	148.5	178.4	103.5	148.5	110.4	111.8	30
32	178.2	248.1	54.9	178.2	72.8	76.8	32
34	118.8	99.0	151.5	118.8	146.7	145.6	34
36	138.6	125.5	144.8	138.6	143.0	142.9	36
38	79.2	57.3	71.9	79.2	70.6	70.9	38
40	9.9	27.9	28.1	9.9	28.0	27.4	40
42	29.7	42.6	135.8	29.7	127.2	123.6	42
44		20.6	94.2		87.4	84.2	44
46		29.4	21.9		22.6	21.7	46
48			3.8		3.4	3.3	48
50			10.5		9.5	9.1	50
52							52
54			5.2		4.7	4.6	54
TOTAL	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	4	3	1	7	8	
SAMPLING WEIGHT(kg)	44	170	206	44	376	420	
No. F.MEASURED	101	379	464	101	843	944	
MEAN LENGTH(cm)	32.5	34.2	36.3	32.5	36.1	35.9	
MEAN WEIGHT (g)	315	364	467	315	458	452	
DEPTH RANGE (m)	331/356	42/60	246/407	331/356	42/407	42/407	

TABLE XVIII-B: AMERICAN PLAICE, DIV. 3N, 2014: length composition (0/000) of the 200mm trawl catches.

LENGTH GROUP	OCT = YEAR	LENGTH GROUP
18	10.7	18
20	10.7	20
22	5.3	22
24	21.4	24
26	21.4	26
28	48.1	28
30	96.3	30
32	90.9	32
34	101.6	34
36	90.9	36
38	107.0	38
40	85.6	40
42	69.5	42
44	123.0	44
46	10.7	46
48	16.0	48
50	48.1	50
52	21.4	52
54		54
56	10.7	56
58		58
60	5.3	60
62	5.3	62
TOTAL	1000	
No. SAMPLES	1	
SAMPLING WEIGHT(kg)	111	
No. F.MEASURED	187	
MEAN LENGTH(cm)	38.3	
MEAN WEIGHT (g)	570	
DEPTH RANGE (m)	48/53	

TABLE XIX: AMERICAN PLAICE, DIV. 3O, 2014: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	APR	MAY	JUN	JUL	AUG	SEP	OCT	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
16			2.6					2.2			0.5	16
18		6.3	6.3			5.0	3.0	6.2	4.3	3.0	4.7	18
20		6.3	33.3		38.5	12.8	3.1	28.5	16.0	3.1	18.2	20
22		44.4	50.6		48.1	24.9	15.3	48.9	27.7	15.3	32.1	22
24		38.1	70.3	9.3	38.5	58.8	27.5	64.2	56.1	27.5	56.0	24
26		95.1	97.6	56.1	125.0	57.8	21.4	95.8	66.2	21.4	70.2	26
28		44.4	139.6	93.5	173.1	112.7	100.8	122.4	120.2	100.8	119.2	28
30		183.9	145.5	308.4	230.8	147.2	143.5	149.5	158.1	143.5	154.8	30
32		63.4	119.8	215.0	182.7	160.7	174.0	109.1	163.6	174.0	150.6	32
34		96.7	62.6	102.8	38.5	98.6	107.2	67.1	91.1	107.2	86.3	34
36		45.9	83.5	65.4	9.6	74.4	61.2	76.3	66.3	61.2	68.4	36
38		141.1	65.6	112.1	38.5	72.5	88.7	76.6	68.4	88.7	72.0	38
40	20.0	59.8	82.0	37.4	48.1	84.2	52.0	77.6	79.6	52.0	76.9	40
42	50.0	56.5	19.8		28.8	27.2	137.6	26.1	27.3	137.6	35.5	42
44	60.0	23.6	6.0			22.5	30.7	9.6	19.6	30.7	17.9	44
46	100.0	25.0	8.5			13.1	24.6	12.5	11.5	24.6	12.7	46
48	80.0	6.2	1.8			13.1	6.1	3.6	11.5	6.1	9.1	48
50	130.0	18.5	4.6			9.5	3.1	8.6	8.3	3.1	8.0	50
52	180.0	9.2				4.2		4.1	3.7		3.5	52
54	140.0	9.2				0.7		3.5	0.6		1.3	54
56	140.0	3.1						2.5			0.6	56
58	70.0	9.2						2.5			0.6	58
60	20.0	7.7						1.5			0.4	60
62	10.0	3.1						0.6			0.2	62
64		1.5						0.2			0.1	64
66												66
68												68
70		1.5						0.2			0.1	70
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	2	7	1	1	8	2	10	10	2	22	
SAMPLING WEIGHT(kg)	138	161	297	47	32	541	142	596	620	142	1358	
No. F.MEASURED	100	219	781	107	104	1216	327	1100	1427	327	2854	
MEAN LENGTH(cm)	52.1	35.4	32.0	33.0	30.9	33.8	35.4	32.8	33.4	35.4	33.4	
MEAN WEIGHT (g)	1356	465	315	318	271	373	424	354	361	424	364	
DEPTH RANGE (m)	373/458	132/269	255/411	354/364	335/415	94/420	69/263	132/458	94/420	69/263	69/458	

TABLE XX: GREENLAND HALIBUT, DIV. 3L, 2014: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	MAR	APR	JUN	JUL	AUG	OCT	NOV	1st Q.	2nd Q.	3rd Q.	4th Q.	YEAR	LENGTH GROUP
18						0.3					0.2	0.1	18
20			0.3			3.3			0.3		2.6	1.1	20
22			2.0			5.1	0.7		1.9		4.2	2.3	22
24	0.5		4.5			12.2	6.0	0.5	4.2		10.9	5.9	24
26	3.1		9.0			17.6	4.6	3.1	8.4		14.9	9.5	26
28	8.7		27.3			33.5	13.1	8.7	25.7		29.3	22.6	28
30	13.4		29.3			48.1	19.7	13.4	27.6		42.2	29.2	30
32	23.7		51.5			54.2	33.7	23.7	48.5		49.9	42.0	32
34	40.4		53.7	1.4		73.8	64.6	40.4	50.5	0.8	71.9	54.7	34
36	44.4		54.8	5.0		50.0	41.7	44.4	51.5	2.8	48.3	46.7	36
38	65.1		97.7	13.6		88.9	96.6	65.1	91.9	7.6	90.5	82.4	38
40	137.9		136.8	31.6	13.3	79.2	89.6	137.9	128.7	23.5	81.4	107.6	40
42	77.3		133.6	45.8	19.7	86.8	85.4	77.3	125.6	34.3	86.5	96.8	42
44	62.6		87.9	92.4	44.3	136.0	39.9	62.6	82.6	71.2	116.1	91.1	44
46	56.2	31.9	60.3	139.2	81.3	69.9	74.6	56.2	58.6	113.7	70.8	65.2	46
48	83.7	56.2	47.1	250.6	257.0	46.1	93.6	83.7	47.7	253.5	55.9	66.9	48
50	126.3	219.2	56.0	133.6	249.7	46.0	147.1	126.3	65.7	184.9	67.0	83.5	50
52	85.0	243.0	40.4	43.2	135.6	42.3	72.9	85.0	52.4	84.0	48.7	58.8	52
54	88.2	141.3	37.8	97.2	63.7	36.1	38.4	88.2	43.9	82.4	36.6	51.6	54
56	36.5	155.1	17.0	71.8	59.0	19.3	19.6	36.5	25.2	66.1	19.3	26.9	56
58	20.1	93.2	29.2	30.6	27.3	26.6	27.9	20.1	33.0	29.2	26.9	27.9	58
60	13.0	28.1	11.6	25.6	25.0	15.7	17.1	13.0	12.5	25.3	16.0	14.5	60
62	9.9	23.8	8.2	11.4	17.0	5.5	9.6	9.9	9.1	13.9	6.4	8.4	62
64	3.0	8.1	3.6	2.8	7.0	2.8	2.3	3.0	3.9	4.7	2.7	3.3	64
66	1.2		0.5	1.4		0.5		1.2	0.5	0.8	0.4	0.6	66
68				1.4		0.3	1.0			0.8	0.5	0.2	68
70													70
72				1.4						0.8		0.03	72
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	8	2	13	2	2	12	3	8	15	4	15	42	
SAMPLING WEIGHT(kg)	1426	275	2805	527	567	2120	715	1426	3080	1094	2835	8435	
No. F.MEASURED	1906	200	3017	400	400	2878	963	1906	3217	800	3841	9764	
MEAN LENGTH(cm)	46.4	54.2	43.2	50.1	51.3	42.5	45.3	46.4	43.9	50.6	43.1	44.4	
MEAN WEIGHT (g)	935	1391	772	1126	1189	750	880	935	809	1154	777	837	
DEPTH RANGE (m)	772/1485	803/1083	840/1307	824/1271	1008/1235	870/1274	984/1237	772/1485	803/1307	824/1271	870/1274	772/1485	

TABLE XXI: GREENLAND HALIBUT, DIV. 3M, 2014: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	MAR	APR	JUN	JUL	1st Q.	2nd Q.	3rd Q.	YEAR	LENGTH GROUP
22	0.4				0.4			0.2	22
24			8.8			0.9		0.3	24
26	2.2				2.2			1.3	26
28	5.0		17.7		5.0	1.8		3.6	28
30	14.8				14.8			8.7	30
32	16.3		35.4		16.3	3.6		10.9	32
34	37.2		26.5		37.2	2.7		22.8	34
36	46.0		17.7		46.0	1.8		27.7	36
38	78.4		35.4		78.4	3.6		47.4	38
40	130.6	10.0	97.3		130.6	19.0		83.6	40
42	106.2	18.0	221.2	5.0	106.2	38.9	5.0	76.8	42
44	55.9	36.0	150.4	20.1	55.9	47.7	20.1	51.2	44
46	57.8	52.1	212.4	25.1	57.8	68.6	25.1	60.1	46
48	94.1	83.9	123.9	30.2	94.1	88.0	30.2	88.8	48
50	144.9	174.1	35.4	95.5	144.9	159.8	95.5	148.0	50
52	112.8	235.9	17.7	65.3	112.8	213.5	65.3	147.2	52
54	35.2	119.9		95.5	35.2	107.6	95.5	64.5	54
56	20.6	85.9		226.1	20.6	77.1	226.1	51.1	56
58	19.3	92.1		236.2	19.3	82.6	236.2	52.8	58
60	11.4	62.1		135.7	11.4	55.8	135.7	33.5	60
62	7.2	16.0		35.2	7.2	14.3	35.2	11.2	62
64	2.0	4.0		10.1	2.0	3.6	10.1	2.9	64
66	1.8	4.0		15.1	1.8	3.6	15.1	3.1	66
68				5.0			5.0	0.2	68
70									70
72		6.0				5.4		2.0	72
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	6	2	1	1	6	3	1	10	
SAMPLING WEIGHT(kg)	935	259	101	346	935	360	346	1641	
No. F.MEASURED	1171	200	113	199	1171	313	199	1683	
MEAN LENGTH(cm)	46.0	53.4	43.9	56.7	46.0	52.5	56.7	48.9	
MEAN WEIGHT (g)	905	1350	764	1601	905	1290	1601	1079	
DEPTH RANGE (m)	873/1135	783/1148	749/841	957/1063	873/1135	749/1148	957/1063	749/1148	

TABLE XXII: GREENLAND HALIBUT, DIV. 3N, 2014: length composition
(0/000) of the 130mm trawl catches.

LENGTH GROUP	JUL	AUG	3rd Q. = YEAR	LENGTH GROUP
32	21.0		11.8	32
34	30.5		17.1	34
36	22.9	12.9	18.5	36
38	74.5	14.2	48.0	38
40	119.8	80.7	102.7	40
42	109.6	83.3	98.1	42
44	97.1	151.6	121.0	44
46	116.6	145.4	129.2	46
48	84.6	108.9	95.2	48
50	119.3	136.9	127.0	50
52	85.8	82.1	84.2	52
54	41.3	58.2	48.7	54
56	35.4	66.3	49.0	56
58	14.8	19.5	16.9	58
60	5.9	18.7	11.5	60
62	3.0	19.5	10.2	62
64		1.8	0.8	64
66	8.9		5.0	66
68	3.0		1.7	68
70				70
72				72
74				74
76	5.9		3.3	76
TOTAL	1000	1000	1000	
No. SAMPLES	2	2	4	
SAMPLING WEIGHT(kg)	543	475	1019	
No. F.MEASURED	413	400	813	
MEAN LENGTH(cm)	46.7	48.9	47.7	
MEAN WEIGHT (g)	944	1051	991	
DEPTH RANGE (m)	891/1033	900/1400	891/1400	

TABLE XXIII: WITCH FLOUNDER, DIV. 3M, 2014: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	SEP	OCT	NOV	3rd Q.	4th Q.	YEAR	LENGTH GROUP
20	18.2			18.2		14.5	20
22	16.1	8.1		16.1	1.9	13.2	22
24	74.2	24.2	8.8	74.2	12.5	61.7	24
26	68.5	32.3	61.9	68.5	55.0	65.7	26
28	185.6	88.7	97.3	185.6	95.3	167.3	28
30	129.9	112.9	97.3	129.9	101.0	124.0	30
32	131.1	80.6	168.1	131.1	147.6	134.5	32
34	80.4	177.4	79.6	80.4	102.6	84.9	34
36	106.5	145.2	70.8	106.5	88.3	102.8	36
38	110.9	233.9	97.3	110.9	129.4	114.6	38
40	41.9	72.6	168.1	41.9	145.7	62.9	40
42	24.7	8.1	88.5	24.7	69.6	33.8	42
44	9.4	8.1	26.5	9.4	22.2	12.0	44
46	2.7	8.1	8.8	2.7	8.7	3.9	46
48			8.8		6.8	1.4	48
50							50
52			17.7		13.5	2.7	52
TOTAL	1000	1000	1000	1000	1000	1000	
No. SAMPLES	3	1	1	3	2	5	
SAMPLING WEIGHT(kg)	126	49	48	126	97	223	
No. F.MEASURED	318	124	113	318	237	555	
MEAN LENGTH(cm)	32.6	35.2	36.2	32.6	35.9	33.3	
MEAN WEIGHT (g)	413	488	532	413	522	435	
DEPTH RANGE (m)	141/204	152/179	153/202	141/204	152/202	141/204	

TABLE XXIV: WITCH FLOUNDER, DIV. 3N, 2014: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	AUG =YEAR	LENGTH GROUP
38	5.4	38
40	32.4	40
42	59.5	42
44	43.2	44
46	291.9	46
48	210.8	48
50	135.1	50
52	70.3	52
54	70.3	54
56	16.2	56
58	27.0	58
60	27.0	60
62	10.8	62
TOTAL	1000	

No. SAMPLES 1
 SAMPLING WEIGHT(kg) 124
 No. F.MEASURED 185
 MEAN LENGTH(cm) 49.4
 MEAN WEIGHT (g) 1030
 DEPTH RANGE (m) 470/1100

TABLE XXV: WITCH FLOUNDER, DIV. 3O, 2014: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	JUL	AUG	SEP	3rd Q. =YEAR	LENGTH GROUP
18		39.0	6.5	9.1	18
20		77.9	20.1	24.8	20
22		142.9	30.5	39.6	22
24		155.8	72.7	79.3	24
26		103.9	62.5	65.6	26
28		39.0	131.6	123.4	28
30		168.8	106.4	111.1	30
32		155.8	157.7	156.9	32
34		26.0	83.8	78.6	34
36		39.0	76.6	73.2	36
38		13.0	97.6	90.1	38
40		39.0	48.4	47.4	40
42			36.1	33.0	42
44			39.0	35.6	44
46			11.2	10.2	46
48	34.9		10.6	9.8	48
50	151.2		5.0	5.2	50
52	360.5		1.7	3.1	52
54	267.4		1.6	2.6	54
56	127.9		0.5	1.0	56
58	23.3			0.1	58
60	34.9			0.2	60
TOTAL	1000	1000	1000	1000	

No. SAMPLES 1 1 10 12
 SAMPLING WEIGHT(kg) 72 20 592 684
 No. F.MEASURED 86 77 1398 1561
 MEAN LENGTH(cm) 54.0 28.3 33.4 33.1
 MEAN WEIGHT (g) 1431 123 242 237
 DEPTH RANGE (m) 362/371 335/415 259/431 259/431

TABLE XXVI: ROUGHHEAD GRENADIER, DIV. 3L, 2014: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	MAR	JUN	JUL	AUG	1st Q.	2nd Q.	3rd Q.	YEAR	LENGTH GROUP
7		8.3	15.0			8.3	8.6	5.4	7
8	14.8	15.0	55.0		14.8	15.0	31.5	15.8	8
9	44.8	35.0	110.0		44.8	35.0	63.0	39.8	9
10	93.7	77.7	280.0	15.0	93.7	77.7	166.7	87.9	10
11	201.8	140.9	230.0	45.0	201.8	140.9	150.9	162.7	11
12	354.9	352.6	140.0	50.0	354.9	352.6	101.5	340.4	12
13	109.9	110.5	100.0	95.0	109.9	110.5	97.9	109.6	13
14	53.8	66.6	40.0	135.0	53.8	66.6	80.6	62.8	14
15	28.9	77.9	30.0	260.0	28.9	77.9	128.4	63.4	15
16	24.9	29.4		105.0	24.9	29.4	44.9	28.6	16
17	12.4	25.0		85.0	12.4	25.0	36.3	21.2	17
18	10.1	21.1		90.0	10.1	21.1	38.5	18.2	18
19	5.2	6.1		80.0	5.2	6.1	34.2	7.2	19
20	9.5	8.9		30.0	9.5	8.9	12.8	9.3	20
21	4.6	10.0		10.0	4.6	10.0	4.3	7.8	21
22	2.9	2.8			2.9	2.8		2.7	22
23	1.2	6.1			1.2	6.1		4.1	23
24	2.6	2.8			2.6	2.8		2.6	24
25	6.7				6.7			2.3	25
26	9.0	3.3			9.0	3.3		5.1	26
27									27
28	1.2				1.2			0.4	28
29	1.2				1.2			0.4	29
30	6.1				6.1			2.1	30
TOTAL	1000	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	3	2	1	1	3	2	2	7	
SAMPLING WEIGHT(kg)	231	159	34	71	231	159	106	496	
No. F.MEASURED	480	333	200	200	480	333	400	1213	
MEAN LENGTH(cm)	13.0	13.2	11.4	15.8	13.0	13.2	13.3	13.2	
MEAN WEIGHT (g)	240	236	146	372	240	236	243	238	
DEPTH RANGE (m)	854/1255	901/997	829/896	887/899	854/1255	901/997	829/899	829/1255	

TABLE XXVII: ROUGHHEAD GRENADIER, DIV. 3M, 2014: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	MAR	JUL	1st Q.	3rd Q.	YEAR	LENGTH GROUP
7	3.6		3.6		3.5	7
8	33.1	5.0	33.1	5.0	32.7	8
9	50.7	40.0	50.7	40.0	50.6	9
10	123.9	45.0	123.9	45.0	122.8	10
11	190.0	55.0	190.0	55.0	188.1	11
12	335.8	195.0	335.8	195.0	333.8	12
13	106.6	150.0	106.6	150.0	107.2	13
14	23.2	210.0	23.2	210.0	25.9	14
15	48.6	185.0	48.6	185.0	50.6	15
16	23.8	40.0	23.8	40.0	24.0	16
17	17.4	50.0	17.4	50.0	17.9	17
18	16.7	25.0	16.7	25.0	16.8	18
19						19
20	5.1		5.1		5.0	20
21	12.2		12.2		12.0	21
22	2.8		2.8		2.8	22
23	3.6		3.6		3.5	23
24	1.4		1.4		1.4	24
25						25
26	1.4		1.4		1.4	26
TOTAL	1000	1000	1000	1000	1000	
No. SAMPLES	3	1	3	1	4	
SAMPLING WEIGHT(kg)	182	42	182	42	224	
No. F.MEASURED	452	200	452	200	652	
MEAN LENGTH(cm)	12.6	13.9	12.6	13.9	12.6	
MEAN WEIGHT (g)	206	257	206	257	206	
DEPTH RANGE (m)	873/1135	918/1044	873/1135	918/1044	873/1135	

TABLE XXVIII: THORNY SKATE, DIV. 3M, 2014: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB = YEAR	LENGTH GROUP
48	45.5	48
50	90.9	50
52	90.9	52
54	45.5	54
56	90.9	56
58		58
60	90.9	60
62	90.9	62
64		64
66	45.5	66
68	45.5	68
70	45.5	70
72	90.9	72
74	90.9	74
76	45.5	76
78		78
80	45.5	80
82		82
84	45.5	84
TOTAL	1000	
No. SAMPLES	1	
SAMPLING WEIGHT(kg)	69	
No. F.MEASURED	22	
MEAN LENGTH(cm)	64.0	
MEAN WEIGHT (g)	3074	
DEPTH RANGE (m)	377/391	

TABLE XXIX: WHITE HAKE, DIV. 3O, 2014: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	MAY	JUN	AUG	SEP	2nd Q.	3rd Q.	YEAR	LENGTH GROUP
24		3.9		3.1	3.4	2.9	3.0	24
25				3.1		2.9	2.1	25
26		5.6			4.9		1.4	26
27		5.6			4.9		1.4	27
28	14.7		18.2	3.1	1.8	4.0	3.4	28
29				6.2		5.8	4.1	29
30		7.8	36.4	6.1	6.8	8.0	7.7	30
31	29.4	2.0		6.2	5.3	5.8	5.6	31
32	29.4	2.0	18.2		5.3	1.2	2.3	32
33		7.5		8.7	6.6	8.2	7.7	33
34				38.1		35.7	25.6	34
35		24.7	36.4	23.2	21.7	24.0	23.4	35
36		9.2	36.4	11.8	8.1	13.3	11.9	36
37	14.7	15.5		61.8	15.4	57.9	45.9	37
38		54.1		23.2	47.5	21.7	29.0	38
39	44.1	35.5	54.5	14.9	36.6	17.4	22.8	39
40		11.2	36.4	75.0	9.8	72.5	54.8	40
41		54.7	36.4	33.4	48.0	33.5	37.6	41
42	14.7	71.3		15.3	64.3	14.3	28.5	42
43	58.8	19.4		97.6	24.3	91.4	72.5	43
44		19.1	145.5	78.2	16.8	82.4	63.9	44
45	29.4	56.2	18.2	94.5	52.9	89.6	79.3	45
46	191.2	94.8	109.1	55.2	106.7	58.7	72.2	46
47	14.7	64.4	36.4	12.3	58.3	13.8	26.4	47
48	102.9	62.0	36.4	32.2	67.0	32.4	42.2	48
49		11.2	36.4	36.2	9.8	36.2	28.7	49
50	29.4	65.5	200.0	48.6	61.0	58.2	59.0	50
51	29.4	79.3	36.4	18.2	73.2	19.3	34.5	51
52	102.9	35.7	18.2	47.6	44.0	45.7	45.2	52
53	29.4	56.1		37.4	52.8	35.1	40.1	53
54	14.7	18.2		17.5	17.8	16.4	16.8	54
55	102.9		18.2	28.6	12.7	28.0	23.6	55
56	29.4	47.8		8.8	45.6	8.2	18.8	56
57	14.7	16.5		18.4	16.3	17.2	16.9	57
58	14.7	24.7	36.4	9.2	23.5	10.9	14.5	58
59			18.2	2.8		3.8	2.7	59
60	58.8	7.3		6.1	13.6	5.7	7.9	60
61		7.3	18.2	3.1	6.4	4.0	4.7	61
62	14.7			8.9	1.8	8.4	6.5	62
63	14.7				1.8		0.5	63
64								64
65		3.6			3.2		0.9	65
66				2.8		2.7	1.9	66
67				2.8		2.7	1.9	67
TOTAL	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	3	1	3	4	4	8	
SAMPLING WEIGHT(kg)	97	375	61	363	472	424	896	
No. F.MEASURED	68	247	55	334	315	389	704	
MEAN LENGTH(cm)	49.0	46.8	45.9	45.2	47.1	45.3	45.8	
MEAN WEIGHT (g)	1023	886	840	807	903	809	836	
DEPTH RANGE (m)	393/394	254/426	335/415	251/431	254/426	251/431	251/431	

TABLE XXVII: ROUGHHEAD GRENADIER, DIV. 3M, 2014: length composition (0/000)
130mm trawl catches.

LENGTH GROUP	MAR =1st Q.	JUL =3rd Q.	YEAR	LENGTH GROUP
7	3.6		3.5	7
8	33.1	5.0	32.7	8
9	50.7	40.0	50.6	9
10	123.9	45.0	122.8	10
11	190.0	55.0	188.1	11
12	335.8	195.0	333.8	12
13	106.6	150.0	107.2	13
14	23.2	210.0	25.9	14
15	48.6	185.0	50.6	15
16	23.8	40.0	24.0	16
17	17.4	50.0	17.9	17
18	16.7	25.0	16.8	18
19				19
20	5.1		5.0	20
21	12.2		12.0	21
22	2.8		2.8	22
23	3.6		3.5	23
24	1.4		1.4	24
25				25
26	1.4		1.4	26
TOTAL	1000	1000	1000	
No. SAMPLES	3	1	4	
SAMPLING WEIGHT(kg)	182	42	224	
No. F.MEASURED	452	200	652	
MEAN LENGTH(cm)	12.6	13.9	12.6	
MEAN WEIGHT (g)	206	257	206	
DEPTH RANGE (m)	873/1135	918/1044	873/1135	

TABLE XXVIII: THORNY SKATE, DIV. 3M, 2014: length composition
(0/000) of the 130mm trawl catches.

LENGTH GROUP	FEB = YEAR	LENGTH GROUP
48	45.5	48
50	90.9	50
52	90.9	52
54	45.5	54
56	90.9	56
58		58
60	90.9	60
62	90.9	62
64		64
66	45.5	66
68	45.5	68
70	45.5	70
72	90.9	72
74	90.9	74
76	45.5	76
78		78
80	45.5	80
82		82
84	45.5	84
TOTAL	1000	
No. SAMPLES	1	
SAMPLING WEIGHT(kg)	69	
No. F.MEASURED	22	
MEAN LENGTH(cm)	64.0	
MEAN WEIGHT (g)	3074	
DEPTH RANGE (m)	377/391	

TABLE XXIX: WHITE HAKE, DIV. 3O, 2014: length composition (0/000) of the 130mm trawl catches.

LENGTH GROUP	MAY	JUN	AUG	SEP	2nd Q.	3rd Q.	YEAR	LENGTH GROUP
24		3.9		3.1	3.4	2.9	3.0	24
25				3.1		2.9	2.1	25
26		5.6			4.9		1.4	26
27		5.6			4.9		1.4	27
28	14.7		18.2	3.1	1.8	4.0	3.4	28
29				6.2		5.8	4.1	29
30		7.8	36.4	6.1	6.8	8.0	7.7	30
31	29.4	2.0		6.2	5.3	5.8	5.6	31
32	29.4	2.0	18.2		5.3	1.2	2.3	32
33		7.5		8.7	6.6	8.2	7.7	33
34				38.1		35.7	25.6	34
35		24.7	36.4	23.2	21.7	24.0	23.4	35
36		9.2	36.4	11.8	8.1	13.3	11.9	36
37	14.7	15.5		61.8	15.4	57.9	45.9	37
38		54.1		23.2	47.5	21.7	29.0	38
39	44.1	35.5	54.5	14.9	36.6	17.4	22.8	39
40		11.2	36.4	75.0	9.8	72.5	54.8	40
41		54.7	36.4	33.4	48.0	33.5	37.6	41
42	14.7	71.3		15.3	64.3	14.3	28.5	42
43	58.8	19.4		97.6	24.3	91.4	72.5	43
44		19.1	145.5	78.2	16.8	82.4	63.9	44
45	29.4	56.2	18.2	94.5	52.9	89.6	79.3	45
46	191.2	94.8	109.1	55.2	106.7	58.7	72.2	46
47	14.7	64.4	36.4	12.3	58.3	13.8	26.4	47
48	102.9	62.0	36.4	32.2	67.0	32.4	42.2	48
49		11.2	36.4	36.2	9.8	36.2	28.7	49
50	29.4	65.5	200.0	48.6	61.0	58.2	59.0	50
51	29.4	79.3	36.4	18.2	73.2	19.3	34.5	51
52	102.9	35.7	18.2	47.6	44.0	45.7	45.2	52
53	29.4	56.1		37.4	52.8	35.1	40.1	53
54	14.7	18.2		17.5	17.8	16.4	16.8	54
55	102.9		18.2	28.6	12.7	28.0	23.6	55
56	29.4	47.8		8.8	45.6	8.2	18.8	56
57	14.7	16.5		18.4	16.3	17.2	16.9	57
58	14.7	24.7	36.4	9.2	23.5	10.9	14.5	58
59			18.2	2.8		3.8	2.7	59
60	58.8	7.3		6.1	13.6	5.7	7.9	60
61		7.3	18.2	3.1	6.4	4.0	4.7	61
62	14.7			8.9	1.8	8.4	6.5	62
63	14.7				1.8		0.5	63
64								64
65		3.6			3.2		0.9	65
66				2.8		2.7	1.9	66
67				2.8		2.7	1.9	67
TOTAL	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	1	3	1	3	4	4	8	
SAMPLING WEIGHT(kg)	97	375	61	363	472	424	896	
No. F.MEASURED	68	247	55	334	315	389	704	
MEAN LENGTH(cm)	49.0	46.8	45.9	45.2	47.1	45.3	45.8	
MEAN WEIGHT (g)	1023	886	840	807	903	809	836	
DEPTH RANGE (m)	393/394	254/426	335/415	251/431	254/426	251/431	251/431	

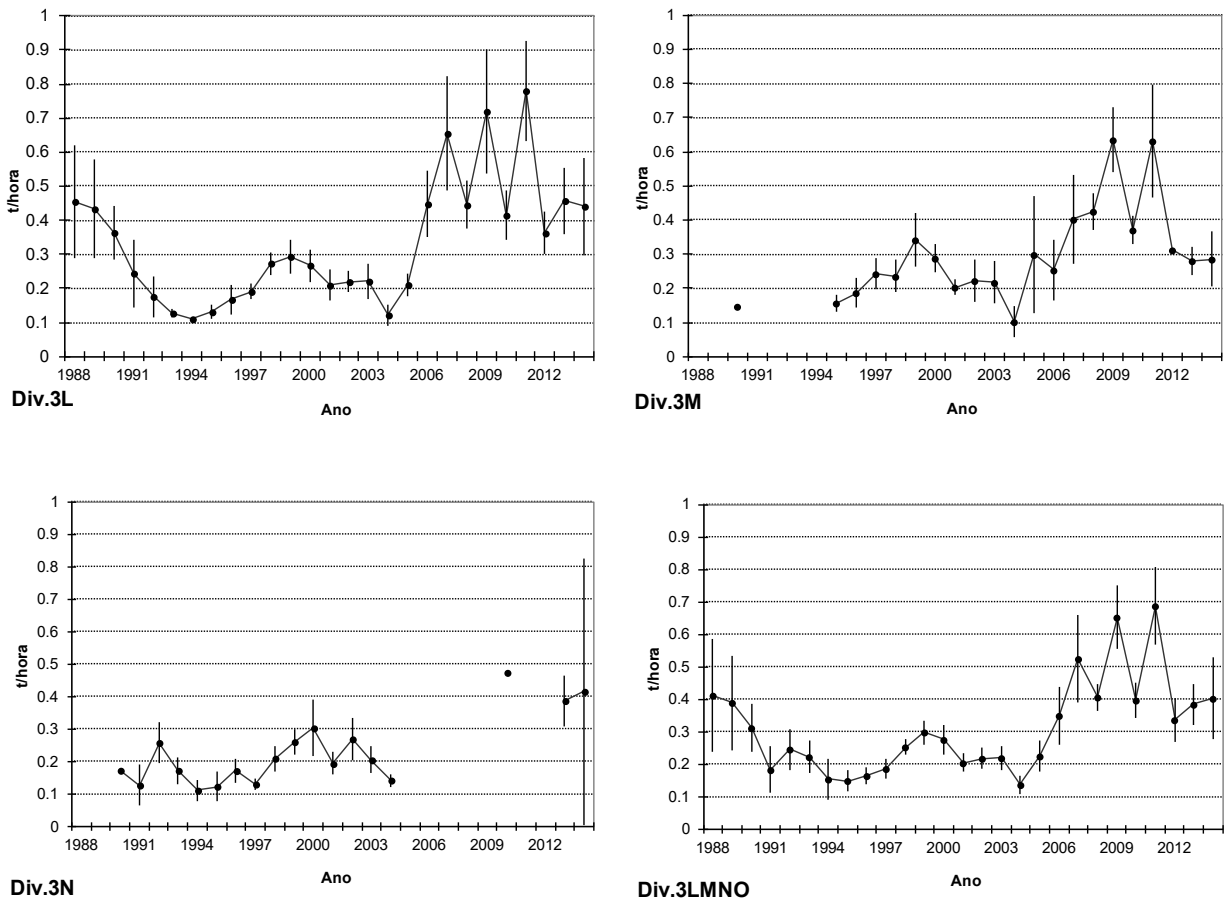


Fig. 1: Greenland halibut trawl catch rates by division, 1988 - 2014.

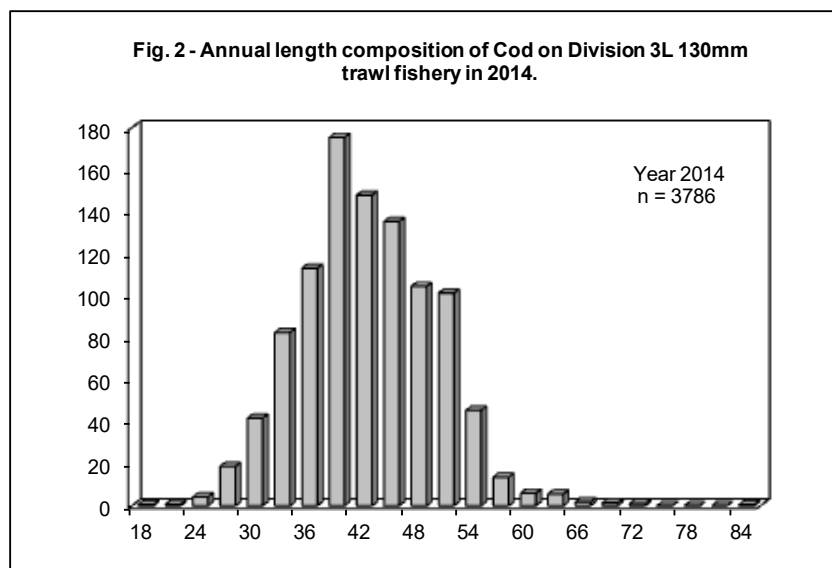


Fig. 3a - Annual length composition of Cod on Division 3M 130mm trawl fishery in 2014.

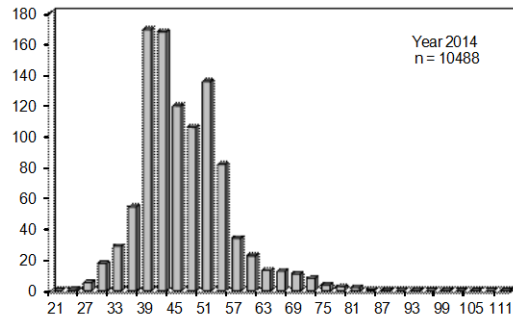


Fig. 3b - Annual age composition of Cod on Division 3M 130mm trawl fishery in 2014.

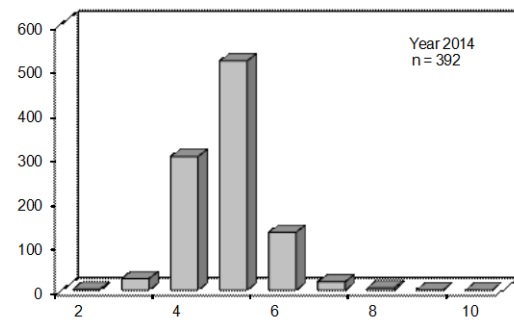


Fig. 4a - Annual length composition of Cod on Division 3N 130mm trawl fishery in 2014.

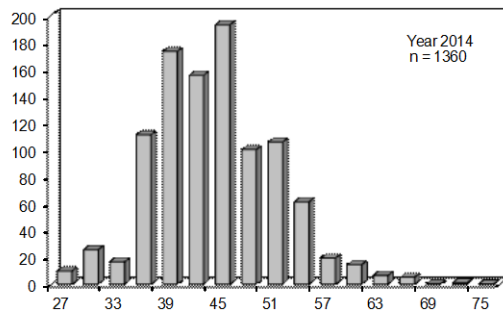


Fig. 4b - Annual length composition of Cod on Division 3N 200mm trawl fishery in 2014.

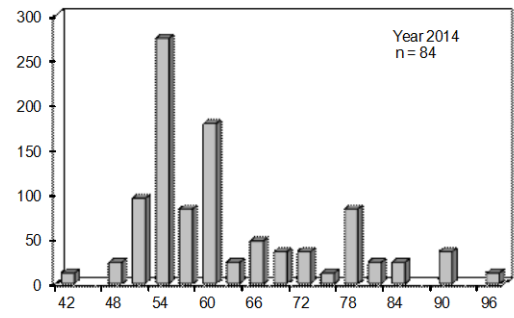


Fig. 5 - Annual length composition of Cod on Division 3O 130mm trawl fishery in 2014.

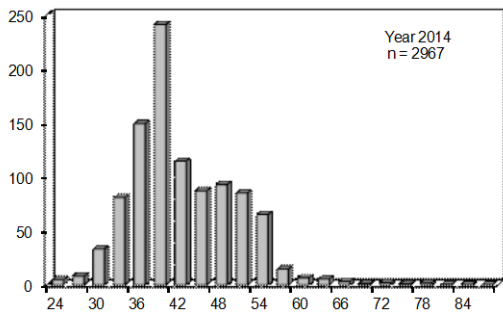


Fig. 6 - Annual length composition of Redfish (*S. mentella*) on Division 3L 130mm trawl fishery in 2014.

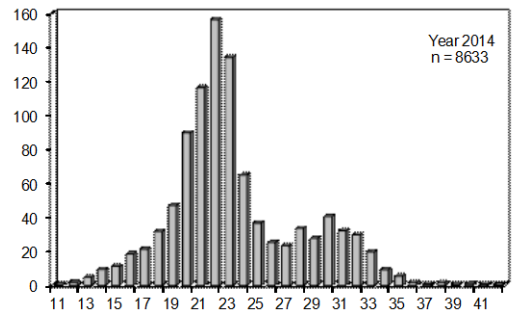


Fig. 7 - Annual length composition of Redfish (*S. mentella*) on Division 3M 130mm trawl fishery in 2012.

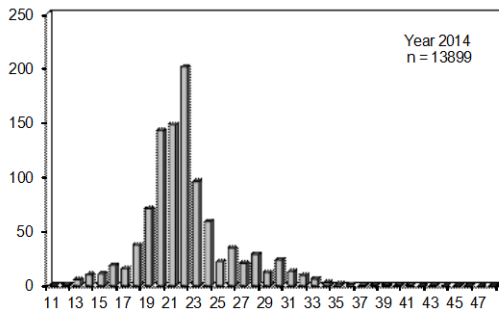


Fig. 8 - Annual length composition of Redfish (*S. mentella*) on Division 3N 130mm trawl fishery in 2014.

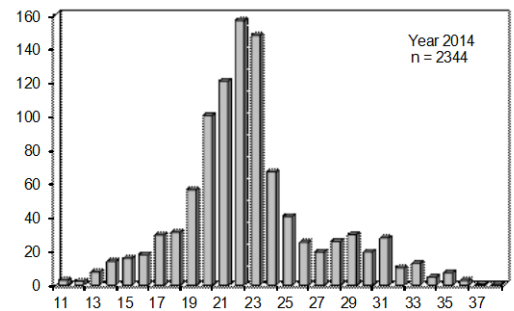


Fig. 9 - Annual length composition of Redfish (*S. mentella*) on Division 3O 130mm trawl fishery in 2014.

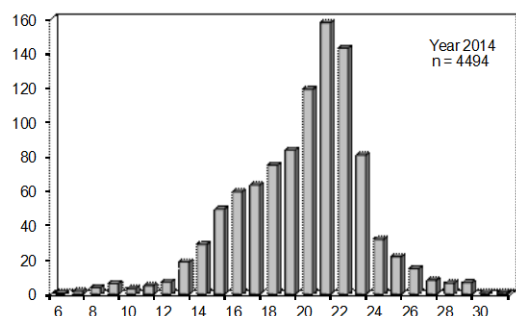


Fig. 10 - Annual length composition of Redfish (*S. marinus*) on Division 3M 130mm trawl fishery in 2014.

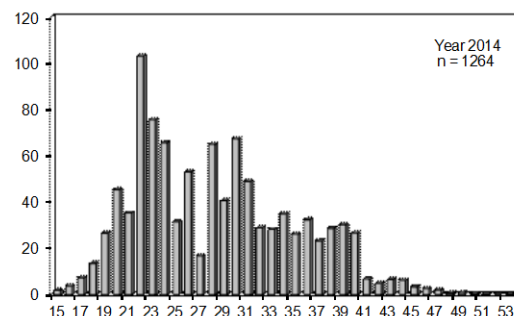


Fig. 11 - Annual length composition of American plaice on Division 3L 130mm trawl fishery in 2014.

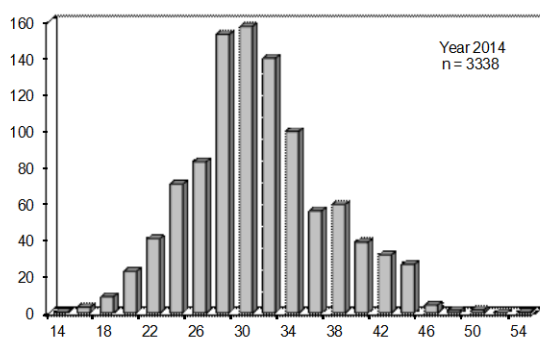


Fig. 12 - Annual length composition of American plaice on Division 3M 130mm trawl fishery in 2014.

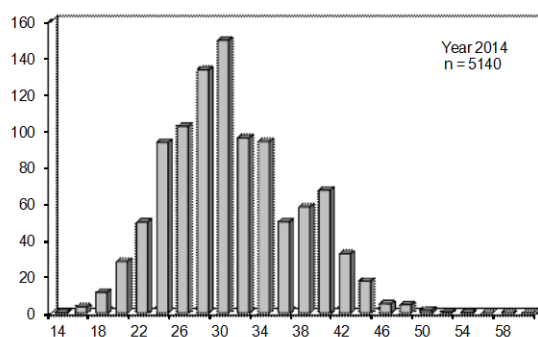


Fig. 13a - Annual length composition of American plaice on Division 3N 130mm trawl fishery in 2014.

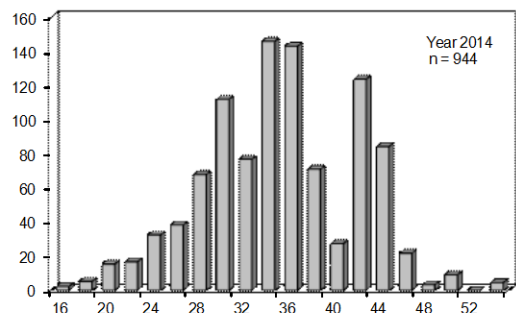


Fig. 13b - Annual length composition of American plaice on Division 3N 200mm trawl fishery in 2014.

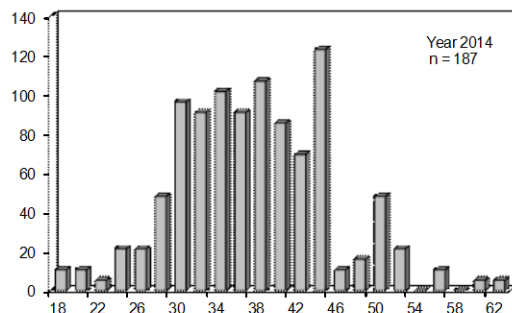


Fig. 14 - Annual length composition of American plaice on Division 3O 130mm trawl fishery in 2014.

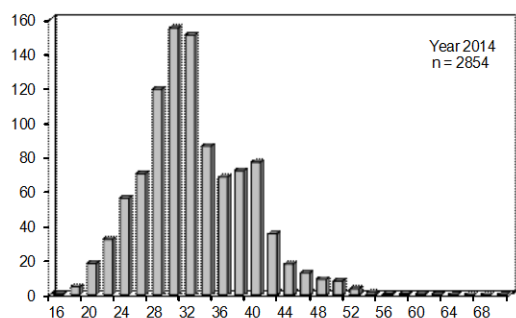


Fig. 15 - Annual length composition of Greenland halibut on Division 3L 130mm trawl fishery in 2014.

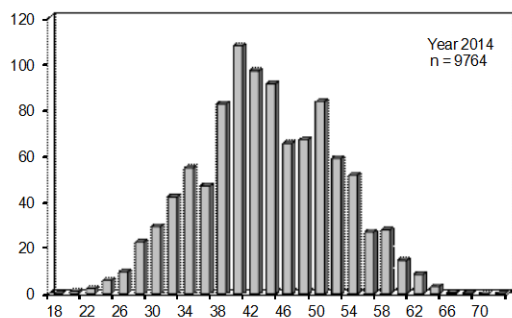


Fig. 16 - Annual length composition of Greenland halibut on Division 3M 130mm trawl fishery in 2014.

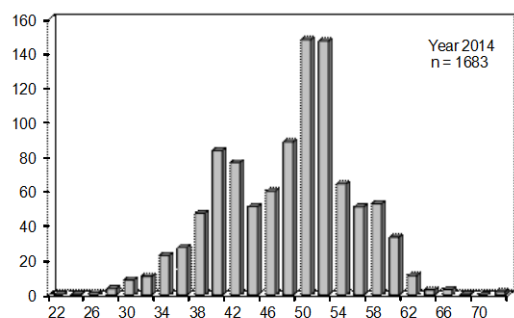


Fig. 17 - Annual length composition of Greenland halibut on Division 3N 130mm trawl fishery in 2014.

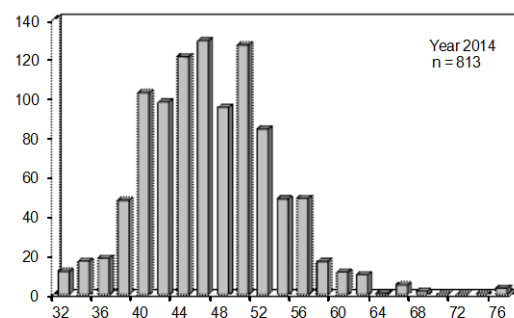


Fig. 18 - Annual length composition of Witch flounder on Division 3M 130mm trawl fishery in 2014.

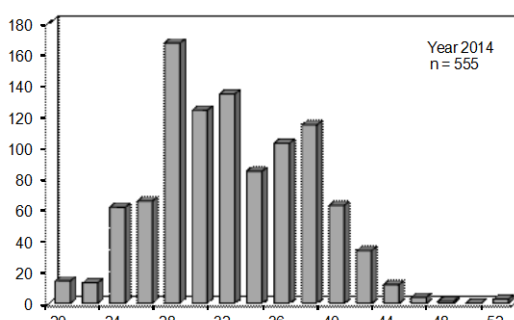


Fig. 19 - Annual length composition of Witch flounder on Division 3N 130mm trawl fishery in 2014.

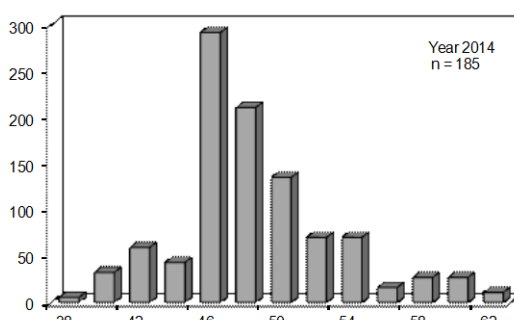


Fig. 20 - Annual length composition of Witch flounder on Division 3O 130mm trawl fishery in 2014.

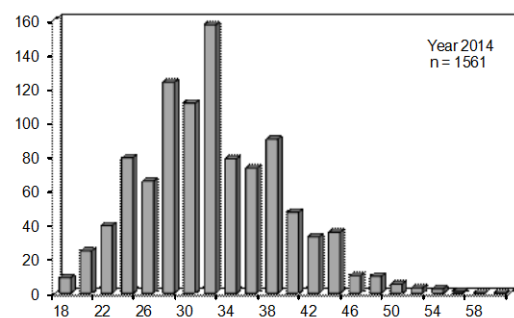


Fig. 21 - Annual length composition of Roughhead grenadier on Division 3L 130mm trawl fishery in 2014.

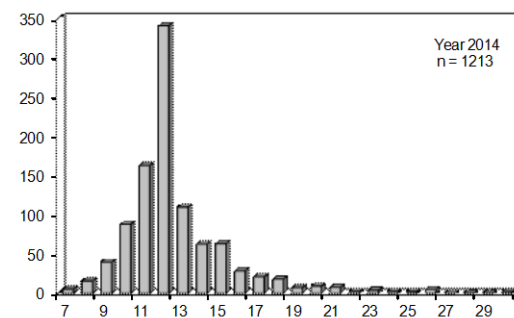


Fig. 22 - Annual length composition of Roughhead grenadier on Division 3M 130mm trawl fishery in 2014.

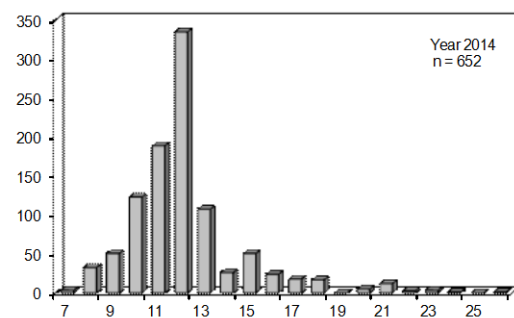


Fig. 23 - Annual length composition of White hake on Division 3O 130mm trawl fishery in 2014.

