

Northwest Atlantic



Fisheries Organization

Serial No. N655

NAFO SCS Doc. 83/VI/7

SCIENTIFIC COUNCIL MEETING - JUNE 1983

Summary of Reported Sampling Data for 1981

by

NAFO Secretariat

1. Introduction

The change in reporting procedures following the adoption of new sampling forms (CFS-1 and CFS-2) at the 1979 Annual Meeting (*ICNAF Redbook* 1979, page 95; *NAFO Sci. Coun. Rep.* 1979-80, page 16) required that, for 1979 and subsequent years, length frequencies should be reported as individual samples and that age-length key data not be grouped in periods greater than a calendar month or in areas greater than one NAFO division (or subdivision, where applicable). The appended tables represent summaries of all length frequency data reported to the Secretariat for 1981. Similar tables for 1980 were presented in NAFO SCS Doc. 82/VI/17.

2. Summaries of Length Frequency Samples

The summaries are arranged in two sections in a format similar to that used in previous Sampling Yearbooks. Part I contains a summary of national data reported directly to the Secretariat by the following countries: Canada (M), Canada (N), Denmark (G), France (SP), German Democratic Republic, Poland, Portugal and USSR. PART II contains a summary of data collected through the International Scientific Observer Program and reported by Canada (N), the coverage including the following: Canada (M), Faroes, France (M), France (SP), Japan, Norway, Poland, Portugal and USSR. No such scientific observer data have yet been reported to the Secretariat by Canada (Maritimes). The sample characteristics are summarized to identify the country, species, division, gear, month, number of samples, and number of fish measured (by sex, where available). An indication of the coverage in 1981 by country, species and division is given in Table 1 (overleaf).

Table 1. Summary of sampling data by country, species and division, from national and scientific observer sampling of fisheries in 1981.

Country	Species	National sampling	Observer sampling
Canada (M)	Cod Haddock Redfish, beaked A. plaice Witch G. halibut		2J, 3L, 3M, 3Ps, 4R, 4S 4R 2J, 3K, 3L, 3N, 3O, 3Ps, 4R, 4S, 4T 2J, 3L, 3Ps, 4R 3L, 4R 2J
Canada (N)	Cod Haddock Redfish Redfish, golden Redfish, beaked A. plaice Witch flounder Yellowtail flo. G. halibut Squid-Illex	2J, 3K, 3L, 3N, 3O, 3Pn, 3Ps, 4R 3Ps 3K, 3L 3K, 3L, 3Ps 2J, 3K, 3L, 3M, 3N, 3O, 3Pn, 3Ps, 4R, 4S, 4T 2H, 2J, 3K, 3L, 3N, 3O, 3Ps, 4R, 4S 3K, 3L, 3N, 3Pn, 3Ps, 4R, 4T 3L, 3N, 3O 2H, 2J, 3K, 3L, 4T 3K, 3L, 3P	
Faroes	Cod		2H, 2J, 3K, 3M
Denmark (G)	Cod	1B, 1C, 1D, 1E, 1F	
France (M)	Cod Redfish, beaked A. plaice		3Pn, 4R, 4Vn 3Pn, 4R 4R
France (SP)	Cod Redfish, beaked A. plaice Yellowtail flo. Squid-Illex	3Pn, 4R, 4Vn 3N 3N, 3Ps 3Ps	3Pn, 3Ps, 4R 3Ps
German Dem. Rep.	Cod G. halibut R. grenadier	3N 2G, 2H, 2J, 3K 2G, 2H, 2J, 3K	
Japan	Cod		3L
Norway	Cod		2J, 3K
Poland	Cod Witch flounder G. halibut Squid-Illex	3K 3K 4W, 4X	2H, 2J, 3K 3K 2H, 3K
Portugal	Cod Redfish Silver hake A. plaice G. halibut	3M, 4W 3L, 3M 3O, 4W	2J, 3K, 3L, 3N, 3O 3N 2J, 3K
USSR	Cod Redfish Silver hake Witch flounder G. halibut Squid-Illex	4W 4W, 4X 4W	3O 3K, 3O 2G, 2H, 3K

PART I. List of National Sampling Data Reported for 1981.

Species	Div.	Gear	Month	Type of Sample	Length samples		
					No.	No. meas.	
			Canada (N)				
Cod	2J	OTB	Jan	CC+CL	48	15353	
			Feb	CC+CL	32	10121	
		GN	Jul	CL	3	269	
			Aug	CL	4	1688	
		FPN	Jul	CL	4	1092	
			3K	OTB	Jan	CC+CL	12
		Feb			CC+CL	37	11563
		Mar			CL	1	445
		Apr			CC+CL	10	2772
		May			CL	1	389
	Jun	CC			6	1339	
	Jul	CC+CL			2	520	
	Aug	CC			1	253	
	Nov	CL			4	1274	
	GN	Aug			CL	9	2237
		Sep	CL	6	2211		
	LL	Jul	CL	6	1040		
		LHP	Jul	CL	17	3534	
	Sep		CL	5	2513		
	FPN	Jul	CL	13	4633		
		3L	OTB	Jan	CC+CL	35	11280
	Feb			CC	1	129	
	Mar			CL	1	373	
	Apr			CL	4	2552	
	May			CC+CL	10	3455	
	Jun			CC+CL	4	1619	
	Jul			CC+CL	5	946	
	Aug			CC	2	457	
	Sep			CC+CL	7	2569	
	Oct			CL	3	1059	
	Nov			CL	12	4237	
	Dec			CL	3	913	
	GN			May	CL	14	4368
			Jun	CL	7	1396	
			Jul	CL	8	1902	
	LL		Jul	CL	3	775	
			Sep	CL	6	1674	
	LHP		Jun	CL	4	1050	
			Jul	CL	9	2029	
			Sep	CL	7	1887	
	FPN		May	CL	3	1629	
			Jun	CL	6	2273	
			Jul	CL	11	5204	
	3N	OTB	Jun	CL	1	216	
			Jul	CC+CL	3	942	
			Aug	CL	2	586	
			Sep	CL	4	1285	
			Oct	CL	3	1157	

Species	Div.	Gear	Month	Type of Sample	Length samples	
					No.	No. meas.
Cod (continued)	30	OTB	Jan	CL	1	303
			Jul	CL	4	1716
			Sep	CL	1	359
			Nov	CL	6	3297
	3Pn	OTB	Feb	CL	7	3648
			Feb	CL	6	3098
			Mar	CL	10	6221
			Nov	CL	12	4555
	3Ps	OTB	Jan	CC+CL	9	1626
			Nov	CL	1	178
		GN	Apr	CL	1	231
			May	CL	15	4055
			Jun	CL	2	687
			Jul	CL	3	567
		LL	Jan	CL	2	1192
			Feb	CL	7	3017
			Mar	CL	3	1219
			May	CL	16	3546
			Jun	CL	1	166
			Jul	CL	4	2200
			Aug	CL	8	2372
			Sep	CL	12	4531
			Oct	CL	4	1287
			Dec	CL	1	155
		LHP	Jul	CL	1	136
			Aug	CL	7	1437
		FPN	May	CL	2	463
			Jun	CL	2	969
			Jul	CL	1	407
	4R	OTB	Jan	CL	13	6519
			Feb	CL	1	488
			May	CL	8	4052
		SN	Jul	CL	1	506
		GN	May	CL	5	483
			Jun	CL	9	3112
		LL	Mar	CL	12	6374
			Jun	CL	1	60
			Jul	CL	7	1318
		FPN	Jun	CL	5	2498
Haddock	3Ps	OTB	Jan	CL	2	666
Redfish	3K	OTB	Mar	CC	1	91/141
			Apr	CC	4	291/554
	3L	OTB	Mar	CC	1	93/138
Redfish, golden	3K	OTB	Apr	CL	2	13/818
			Jul	CL	2	91/53
			Nov	CL	1	2/5
	3L	OTB	Nov	CL	1	14/31
	3Ps	OTB	Feb	CL	1	66/86

Species	Div.	Gear	Month	Type of Sample	Length samples	
					No.	No. meas.
Redfish, beaked	2J	OTB	Jan	CL	4	618/676
			Feb	CL	1	117/240
			Aug	CL	1	255/238
	3K	OTB	Jan	CL	1	176/306
			Mar	CL	5	967/1028
			Apr	CL	3	403/622
			May	CL	2	718/760
			Jun	CL	3	404/745
			Jul	CL	5	772/1093
			Nov	CL	1	220/268
	3L	OTB	Jan	CL	3	814/365
			Mar	CL	2	493/323
			May	CL	4	702/1258
			Sep	CL	1	128/272
			Nov	CL	8	1500/1323
			Dec	CL	6	1367/1378
	3M	OTM	Nov	CL	1	314/358
	3N	OTB	Jan	CL	1	212/244
	3O	OTB	May	CL	2	379/631
			Jun	CC+CL	8	1217/1688
	3Pn	OTB	Feb	CL	3	693/767
			Jun	CC+CL	10	1406/1489
			Jul	CL	2	277/320
			Aug	CL	1	188/200
			Oct	CC+CL	8	733/1211
	3Ps	OTB	Feb	CL	6	987/1543
			Mar	CL	1	220/335
			May	CL	1	171/207
			Jun	CC+CL	5	875/1108
			Aug	CL	8	1851/1918
	4R	OTB	Jan	CL	2	460/584
			Feb	CL	1	150/257
			Jun	CC+CL	6	820/794
			Oct	CC	5	376/379
	4S	OTB	Jun	CC	8	735/854
	4T	OTB	Mar	CL	1	132/169
A. plaice	2H	OTB	Aug	CC	1	164/112
	2J	OTB	Jan	CL	2	77/465
	3K	OTB	Jan	CC+CL	12	931/1634
			Feb	CL	9	779/2538
			Mar	CL	4	436/1526
			Apr	CL	4	314/1493
			May	CL	2	118/750
		GN	Aug	CL	4	337/1519
			Sep	CL	5	465/2051

Species	Div.	Gear	Month	Type of Sample	Length samples	
					No.	No. meas.
A. plaice (continued)	3L	OTB	Jan	CL	2	145/799
			Mar	CC+CL	22	2635/4237
			Apr	CC+CL	27	5104/3768
			May	CC+CL	104	12362/17727
			Jun	CC+CL	43	4379/6049
			Jul	CC+CL	22	1943/3476
			Aug	CC+CL	25	1756/4754
			Sep	CC+CL	7	1017/1775
			Oct	CC+CL	17	2196/6601
			Nov	CL	3	372/853
			Dec	CL	2	144/523
		GN	May	CL	11	995/3079
			Jun	CL	4	104/1369
			Jul	CL	1	10/206
			Aug	CL	2	203/449
	3N	OTB	Jan	CL	2	401/468
			Mar	CL	1	144/274
			Apr	CC+CL	14	736/2155
			May	CC+CL	14	1456/1531
			Jun	CC+CL	10	1267/1881
			Jul	CC+CL	32	3048/4576
			Aug	CC+CL	10	1974/2616
			Sep	CC+CL	7	729/870
			Oct	CC+CL	4	643/846
			Nov	CL	1	286/159
	3O	OTB	Apr	CC	2	84/89
			May	CC	2	67/101
			Jul	CC+CL	3	406/635
			Sep	CC	1	69/181
			Oct	CC+CL	2	210/311
			Nov	CL	6	904/3454
	3Ps	OTB	Jan	CC+CL	8	646/1054
			Apr	CC	1	75/136
			Oct	CL	1	163/164
			Nov	CL	8	1398/3117
		GN	May	CL	4	580/661
		LL	May	CL	1	33/80
	4R	GN	May	CL	2	85/510
	4S	OTB	Mar	CL	1	54/400
Witch	3K	OTB	Jan	CC+CL	3	458/495
			Feb	CL	7	1624/1115
			Mar	CL	6	1341/1013
			Apr	CL	7	1295/1382
			May	CL	1	177/155
		GN	Sep	CL	5	1107/909
	3L	OTB	Jan	CC+CL	2	202/137
			Oct	CL	4	829/328
			Nov	CL	2	555/266
	3N	OTB	Apr	CL	1	174/189
			Aug	CL	4	296/320
	3Pn	OTB	Oct	CL	2	285/564

Species	Div.	Gear	Month	Type of Sample	Length samples	
					No.	No. meas.
Witch (continued)	3Ps	SN	Oct	CL	1	198/216
	4R	OTB	Mar	CL	2	310/487
		SN	Jul	CL	2	119/637
	4T	OTB	Mar	CL	1	116/240
Yellowtail	3L	OTB	Apr	CL	3	615/606
			May	CL	9	1484/1288
			Jun	CC+CL	2	361/280
			Jul	CC+CL	6	1341/1001
			Sep	CC	1	104/112
			Dec	CL	2	404/367
	3N	OTB	Apr	CC+CL	4	462/610
			May	CC+CL	6	1048/1095
			Jun	CL	4	1192/1124
			Jul	CC+CL	26	3064/3921
			Aug	CC+CL	21	3958/6211
			Sep	CC+CL	14	2705/2515
			Oct	CL	10	2297/2696
	3O	OTB	Jul	CC+CL	3	489/523
			Sep	CL	1	111/279
			Oct	CC	1	113/109
Greenland halibut	2H	OTB	Jun	CC	1	114/89
			Jul	CL	1	38/96
	2J	OTB	Jun	CC	2	134/285
		GN	Jul	CL	1	191/454
			Oct	CL	1	214/209
	3K	OTB	Jan	CL	3	546/494
			Feb	CL	7	1261/1385
			Mar	CC+CL	2	346/313
			Apr	CC+CL	17	1712/2139
			May	CC+CL	5	486/648
		GN	Jul	CL	10	1643/1752
			Sep	CL	6	1147/1353
	3L	OTB	Oct	CL	1	132/208
			Nov	CL	1	84/194
		GN	May	CL	16	1208/1832
			Jun	CL	2	123/290
			Jul	CL	2	168/235
			Aug	CL	10	1356/1482
			Sep	CL	6	992/1544
Squid - Illex	4T	OTB	Mar	CL	1	182/111
	3K	LHM	Aug	CL	3	375/453
			Sep	CL	2	257/264
			Oct	CL	1	90/107
	3L	LHM	Jul	CL	3	506/475
			Aug	CL	5	739/739
			Sep	CL	1	107/109
	3P	LHM	Jul	CL	1	30/236
			Aug	CL	5	440/952
			Sep	CL	2	238/347

Species	Div.	Gear	Month	Type of Sample	Length samples		
					No.	No. meas.	
<u>Denmark (G)</u>							
Cod	1B	FPN	Jun	CL	4	2507	
	1C	OTB	Feb	CC+CL	2	1849	
			Mar	CC	2	4961	
			Dec	CL	1	1144	
		FPN	Jun	CC+CL+DI	8	4571	
	1D	OTB	Feb	CC	1	944	
			Mar	CC+DI	5	4469	
			Apr	CC	1	68	
			Jun	CC	1	447	
			Nov	CL	3	2811	
		FPN	May	CC+CL	5	2910	
			Jun	CC+CL+DI	8	3558	
	1E	OTB	May	CL	1	705	
			Jun	CC	1	723	
		GN	Sep	CL	1	74	
		LHP	Sep	CL	3	1547	
		FPN	Sep	CC+CL	2	2900	
	1F	GN	Sep	CL	1	62	
			LHP	Aug	CL	1	143
				Sep	CL	2	620
			FPN	Aug	CL	4	1695
				Sep	CL	3	1562
	1D	OTB	Dec	RC	2	65	
			GN	Jul	RC	1	28
			LHP	Mar	RC	2	179
<u>France (SP)</u>							
Cod	3Pn	OTB	Feb	CL	1	232	
	4R	OTB	Jan	CL	1	185	
			Feb	CL	1	243	
	4Vn	OTB	Mar	CL	2	456	
			Apr	CL	2	334	
			May	CL	1	193	
A. plaice	3N	OTB	Jun	CL	2	128/71	
Yellowtail	3N	OTB	Jun	CL	2	187/209	
	3Ps	OTB	Sep	CL	1	54/65	
Squid - <i>Illex</i>	3Ps	LHP	Jul	CL	3	299/299	
			Aug	CL	2	199/203	

Species	Div.	Gear	Month	Type of Sample	Length samples	
					No.	No. meas.
<u>GDR</u>						
Cod	3N	OTB	Jan	CC	1	204
Greenland halibut	2G	OTB	Oct	CC	12	362/276
	2H	OTB	Sep	CC	5	128/123
			Oct	CC	5	135/115
			Nov	CC	9	190/256
	2J	OTB	Oct	CC	3	73/77
			Nov	CC	3	101/52
	3K	OTB	Nov	CC	6	158/151
Roundnose grenadier	2G	OTB	Oct	CC	13	347/304
	2H	OTB	Sep	CC	5	142/107
			Oct	CC	4	86/109
			Nov	CC	9	249/193
	2J	OTB	Oct	CC	3	77/63
			Nov	CC	3	74/73
	3K	OTB	Nov	CC	6	157/134
<u>Poland</u>						
Witch	3K	OTM	Mar	CC	9	3218/2432
			Apr	CC	3	1323/966
			May	CC	3	648/1300
Greenland halibut	3K	OTM	May	CC	6	2258/2159
Squid - <i>Illex</i>	4W	OTM	Jul	CC	3	631/617
			Aug	CC	15	3504/3434
			Sep	CC	3	637/620
	4X	OTM	Aug	CC	1	226/202
<u>Portugal</u>						
Cod	3M	OTB	May	CC	7	292/408
	4W	OTB	Jun	CC	10	438/557
Redfish	3L	OTB	Jun	CC	1	41/9
	3M	OTB	Jun	CC	2	74/26
Silver hake	3O	OTB	Jul	CC	3	135/165
	4W	OTB	May	CC	13	735/565
			Jun	CC	30	1249/1751
<u>USSR</u>						
Redfish	4W	OTB	May	CC	1	103/90
Silver hake	4W	OTB	May	CC	32	3799/2691
			Jun	CC	62	6166/6102
			Jul	CC	25	2617/2466
	4X	OTB	Jun	CC	2	114/286

Species	Div.	Gear	Month	Type of Sample	Length samples	
					No.	No. meas.
Squid - <i>Illex</i>	4W	OTB	May	CC	1	202
			Jun	CC	2	414
			Jul	CC	9	(1001)
						442/375

PART II. List of Sampling Data for 1981 Collected Through the Scientific Observer Program and Reported by Canada (Newfoundland).

Species	Div.	Gear	Month	Type of Sample	Length samples		
					No.	No. meas.	
Canada (M)							
Cod	2J	OTB	Jan	CL	3	922	
			Feb	CL	2	714	
	3L	OTB	Jan	CL	1	315	
	3M	OTB	Jun	CL	2	529	
	3Ps	LL	Jul	CL	1	240	
	4R	OTB	Jan	CL	5	1818	
			Apr	CL	2	400	
			May	CL	8	1713	
	4S	OTB	May	CL	1	200	
			LL	May	CL	1	200
			Jun	CL	1	200	
			Aug	CL	1	200	
			Sep	CL	2	400	
			Oct	CL	3	623	
			Nov	CL	2	400	
Haddock	4R	OTB	Jan	CL	1	241	
Redfish, beaked	2J	OTB	Jul	CL	2	256/147	
			Aug	CL	2	206/191	
	3K	OTB	Jun	CL	2	217/193	
			Jul	CL	1	109/87	
	3L	OTB	Jan	CL	1	141/59	
			May	CL	1	116/85	
	3N	OTB	Jun	CL	1	74/165	
	3O	OTB	Jul	CL	1	113/87	
	3Ps	OTM	Apr	CL	2	200/200	
	4R	OTB	Jun	CL	4	448/350	
			Jul	CL	7	739/660	
			Aug	CL	11	1142/1059	
		OTM	Aug	CL	1	98/102	
	4S	OTB	Jan	CL	1	164/57	
Jun			CL	3	339/268		
Jul			CL	3	306/300		
Aug			CL	2	185/208		

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Species	Div.	Gear	Month	Type of Sample	Length samples			
					No.	No. meas.		
<u>Japan</u>								
Cod	3L	OTB	Oct	CC	9	1903		
			Nov	CC	24	5261		
<u>Norway</u>								
Cod	2J	LL	Apr	CC	2	502		
			May	CC	10	2267		
	3K	LL	Apr	CC	35	6830		
			May	CC	1	220		
<u>Poland</u>								
Cod	2H	OTB	Jan	CC	10	2486		
	2J	OTB	Oct	CC	1	257		
	3K	OTB	Jul	CC	6	392		
Witch	3K	OTB	Mar	CC	22	1724/1443		
			Apr	CC	34	4348/2964		
			May	CC	13	308/951		
Greenland halibut	2H	OTB	Sep	CC	34	2535/2718		
			Oct	CC	1	105/110		
	3K	OTB	Jan	CC	9	682/1152		
			Feb	CC	11	1127/1155		
			May	CC	6	232/286		
			Jul	CC	1	19/26		
			Oct	CC	4	410/365		
<u>Portugal</u>								
Cod	2J	GN	Sep	CC	16	3617		
	3K	OTB	Oct	CC	5	1153		
	3L	OTB	Sep	CC	1	233		
Oct			CC	9	2321			
		GN	May	CC	12	2374		
			Jun	CC	6	1691		
			Jul	CC	1	174		
			Aug	CC	7	1068		
			Sep	CC	15	3427		
			Oct	CC	11	2438		
	3N	GN	Jun	CC	11	2693		
			Jul	CC	27	4761		
	3O	GN	Jun	CC	2	596		
A. plaice	3N	GN	Jun	CC	1	88/105		
Greenland halibut	2J	GN	Aug	CC	11	838/1802		
	3K	GN	Aug	CC	1	53/151		

Species	Div.	Gear	Month	Type of Sample	Length samples	
					No.	No. meas.
USSR						
Cod	30	OTB	Mar	CC	2	154
Witch	3K	OTB	Mar	CC	1	77/109
			Apr	CC	1	94/177
Greenland halibut	30	OTB	Mar	CC	11	1003/774
	2G	OTB	Aug	CC	1	20/53
	2H	OTB	Aug	CC	1	115/107
	3K	OTB	Feb	CC	10	1100/1197
			Mar	CC	1	112/142
			Aug	CC	2	23/66
Sep			CC	3	26/161	

