

Northwest Atlantic



Fisheries Organization

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NAFO SCS Doc. 86/20

SCIENTIFIC COUNCIL MEETING - JUNE 1986

Preliminary List of Sampling Data, 1985

by

NAFO Secretariat

Further to the information in SCS Doc. 85/18 (for 1979-83) and SCS Doc. 85/19 (for 1984), which were presented at the June 1985 Meeting, this report is a preliminary list of sampling data available to date for 1985.

The appended tables contain, for each country (or component), the numbers of fish measured and aged by species, division, gear type and month.

The lists include both nationally-reported data and data collected through the Scientific Observer Program, as indicated in the country headings. The Secretariat files contain all data in the lists except Canada (M), for which lists only are available.

The lists should be checked thoroughly by Scientific Council representatives with a view toward identifying outstanding data. This is particularly evident in the case of lacking age-length keys for much of the length-frequency data.

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Canada (M)

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples			
					No.	No. meas.	No.	No. aged		
<u>1985</u>										
COD	4V	OTB	Jan	CL	13	4215	13	539		
			Feb	CL	8	2443	8	171		
			Mar	CL	2	626	2	65		
			Apr	CL	12	4203	12	223		
			May	CL	8	2223	8	127		
			Jun	CL	9	2935	-	-		
			Jul	CL	10	2409	10	274		
			Aug	CL	9	2825	9	208		
			Sep	CL	2	615	-	-		
			Oct	CL	6	1929	6	105		
			Nov	CL	12	3535	12	324		
			Dec	CL	7	2078	7	123		
				SDN	Apr	CL	2	404	2	55
		May	CL		7	1955	7	132		
		Jun	CL		2	647	2	51		
		LL	May	CL	6	1724	6	368		
			Jun	CL	5	1585	5	171		
			Jul	CL	3	1006	3	104		
			Aug	CL	2	726	2	123		
			Sep	CL	4	1451	4	182		
			Oct	CL	1	409	-	-		
			Nov	CL	4	1306	4	133		
			Dec	CL	1	307	-	-		
			4W	OTB	May	CL	1	229	-	-
				Sep	CL	1	206	-	-	
		PTB	Sep	CL	1	256	-	-		
			SDN	May	CL	1	214	-	-	
				Sep	CL	1	167	1	17	
		Oct		CL	1	260	1	18		
		GN	Sep	CL	2	258	2	29		
			LL	Apr	CL	1	282	-	-	
		May		CL	4	1139	4	47		
		Aug		CL	1	275	1	42		
		Oct		CL	3	691	3	94		
		4X	OTB	Jan	CL	3	870	3	160	
				Feb	CL	5	1255	5	264	
				Apr	CL	1	260	-	-	
				May	CL	7	2096	7	311	
				Jul	CL	1	203	1	38	
				Sep	CL	3	950	3	140	
				Oct	CL	2	408	2	98	
				Nov	CL	3	795	3	122	
				Dec	CL	2	577	-	-	
				GN	Jun	CL	1	97	-	-
			Sep		CL	1	45	-	-	
			LL	Jan	CL	2	645	2	136	
				Feb	CL	3	787	3	143	
	Apr			CL	3	694	3	48		
	May	CL		3	513	3	70			
	Jun	CL		4	609	4	54			
	Aug	CL		1	374	1	50			
	Sep	CL		1	179	1	57			

Canada (M)

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples			
					No.	No. meas.	No.	No. aged		
COD	4X	LHP	May	CL	2	494	2	102		
			Jun	CL	5	591	5	79		
			Jul	CL	4	497	4	52		
			Aug	CL	2	156	2	50		
			Oct	CL	2	311	-	-		
	5Z	OTB	Jun	CL	7	1920	7	258		
			Jul	CL	8	2332	8	234		
			Aug	CL	3	836	-	-		
			Sep	CL	4	1037	-	-		
		LL	Apr	CL	1	240	1	68		
			May	CL	1	233	1	55		
			Jun	CL	1	298	1	59		
			Jul	CL	1	116	-	-		
			Aug	CL	2	379	2	58		
			Sep	CL	1	263	-	-		
			-	-	-	-	-	-		
		HAD	4V	OTB	Jan	CL	4	847	4	106
					Feb	CL	5	1057	5	127
					Mar	CL	1	204	1	33
Apr	CL				7	1418	7	81		
May	CL				5	1021	5	106		
Jun	CL				8	1863	8	90		
Jul	CL				4	821	4	30		
Aug	CL				1	210	1	30		
Oct	CL				2	493	2	25		
Nov	CL				3	611	-	-		
Dec	CL				3	685	-	-		
4W	OTB				Jan	CL	1	356	1	28
					Mar	CL	1	267	1	26
			May	CL	1	252	1	18		
			Sep	CL	1	199	-	-		
	SDN		Sep	CL	1	218	1	14		
			LL	Jun	CL	1	205	1	21	
				Sep	CL	3	576	3	53	
	Oct		CL	1	88	1	21			
	4X		OTB	Jan	CL	4	1033	4	122	
				Feb	CL	14	3290	14	304	
				Apr	CL	3	765	3	61	
May				CL	9	2076	9	237		
Jun				CL	15	3622	15	223		
Jul				CL	4	898	4	61		
Aug				CL	1	118	1	17		
Sep				CL	6	1665	6	114		
Oct				CL	1	215	1	24		
Nov				CL	4	829	-	-		
Dec				CL	1	210	-	-		
LL				Jan	CL	4	984	4	128	
				Feb	CL	3	713	3	94	
				Apr	CL	2	282	2	32	
			May	CL	1	237	1	29		
			Jun	CL	3	531	3	31		
			Jul	CL	1	220	1	26		
			Aug	CL	4	973	4	58		
			Sep	CL	2	439	2	26		
			Oct	CL	2	557	2	23		
Nov			CL	1	269	-	-			
Dec			CL	1	390	-	-			

Canada (M)

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples			
					No.	No. meas.	No.	No. aged		
COD	5Z	OTB	Jun	CL	6	1443	6	103		
			Jul	CL	1	152	-	-		
			Aug	CL	4	1214	-	-		
			Sep	CL	3	805	-	-		
			Oct	CL	1	200	-	-		
			Nov	CL	2	176	-	-		
		LL	Apr	CL	1	228	1	39		
			Jul	CL	1	215	-	-		
			Aug	CL	5	939	-	-		
Sep	CL		2	395	-	-				
RED	4V	OTB	Jan	CL	3	629	-	-		
			Feb	CL	3	579	-	-		
			Jun	CL	4	1242	-	-		
			Jul	CL	3	684	-	-		
			Aug	CL	1	213	-	-		
			Oct	CL	5	1032	-	-		
			4W	OTB	Aug	CL	1	277	-	-
	Sep	CL			1	301	-	-		
	Oct	CL			2	232	-	-		
	4X	OTB	Feb	CL	1	201	-	-		
			May	CL	1	245	-	-		
			Jun	CL	1	232	-	-		
			Jul	CL	1	142	-	-		
			Aug	CL	1	264	-	-		
			Oct	CL	2	580	-	-		
	POL	4V	OTB	Jan	CL	4	911	4	130	
				Feb	CL	1	329	1	34	
				Mar	CL	1	254	1	28	
				Apr	CL	5	1067	5	120	
				May	CL	5	1192	5	113	
				Jun	CL	6	1502	6	184	
Jul				CL	5	1104	5	132		
Aug				CL	3	644	3	76		
Sep				CL	1	280	1	31		
Oct				CL	6	1341	6	172		
Nov				CL	6	1415	6	160		
Dec				CL	2	400	2	49		
4W				OTB	Jun	CL	1	259	1	41
					Nov	CL	1	251	1	23
					Dec	CL	1	229	1	31
					GN	Jul	CL	1	219	1
		Aug	CL			1	201	1	27	
		Sep	CL			2	222	2	31	
		4X	OTB		Jan	CL	2	566	2	62
Feb				CL	5	1214	5	166		
Mar				CL	2	313	2	50		
Apr				CL	6	1438	6	171		
May				CL	3	797	3	98		
Jun				CL	4	908	4	106		
Jul				CL	3	663	3	58		
Aug				CL	1	218	1	24		
Sep				CL	1	178	1	38		
Oct				CL	3	660	3	69		
Nov				CL	2	429	2	59		
Dec				CL	1	217	1	32		

Canada (M)

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples		
					No.	No. meas.	No.	No. aged	
COD	4X	GN	Apr	CL	2	387	2	41	
			May	CL	1	206	1	18	
			Jun	CL	3	652	3	61	
			Jul	CL	1	180	1	28	
			Aug	CL	5	798	5	78	
			Sep	CL	4	584	4	52	
			Oct	CL	1	161	1	28	
		LHP	May	CL	1	160	1	37	
	5Z	OTB	Jun	CL	1	218	1	36	
		LL	Aug	CL	1	76	1	16	
PLA	4V	OTB	Jun	CL	1	219	1	43	
			Nov	CL	1	204	1	30	
		SDN	May	CL	2	599	2	89	
			Sep	CL	1	233	1	40	
			Nov	CL	1	348	1	45	
LL	Jul	CL	1	211	1	32			
	Aug	CL	1	275	1	34			
WIT	4V	OTB	Jan	CL	1	204	-	-	
			Mar	CL	1	188	-	-	
			Jun	CL	1	201	-	-	
		SDN	May	CL	2	664	-	-	
			Jul	CL	1	269	-	-	
			Aug	CL	1	374	-	-	
			Sep	CL	2	795	-	-	
			Nov	CL	1	202	-	-	
		4X	OTB	Feb	CL	2	457	-	-
		YEL	4V	OTB	Jan	CL	1	217	-
FLW	4X	OTB	Apr	CL	2	547	-	-	
			May	CL	2	565	-	-	
			Jun	CL	1	270	-	-	
			Aug	CL	1	201	-	-	
CUSK	4W	LL	Sep	CL	1	180	-	-	
			Oct	CL	1	273	-	-	
		4X	LL	Oct	CL	1	329	-	-
	5Z	LL	Aug	CL	1	137	-	-	
HKW	4X	GN	Aug	CL	1	55	-	-	
			Jul	CL	1	174	-	-	
		Oct	CL	1	203	-	-		
	5Z	LL	Aug	CL	1	135	-	-	
HER	4Vn	PS	Nov	CC	5	850	2	225	
			4W	OTM	Jan	CC	4	723	4
	PS	Jan	CC		37	7381	16	704	
		Nov	CC		2	347	6	259	
	Dec	CC	6	1050					
	GN	May	CC	1	147	-	-		

Canada (M)

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples			
					No.	No. meas.	No.	No. aged		
HER	4X	OTB	Jan	CC	1	142	11	184		
			Mar	CC	10	2066				
			Apr	CC	2	374				
				OTM	Oct	CC	1	190	-	-
				PS	Jan	CC	4	520	3	100
					Jun	CC	8	1928	2	85
					Jul	CC	110	22990	102	3828
					Aug	CC	109	21867		
					Sep	CC	42	6824		
					Oct	CC	31	4628	25	822
					Nov	CC	3	426		
				GN	Jun	CC	1	180	-	-
					Jul	CC	9	924	12	389
					Aug	CC	24	4528		
					Sep	CC	28	6111		
				FPN	May	CC	3	714	3	138
					Jun	CC	2	290		
				FWR	May	CC	11	2049	35	764
					Jun	CC	23	4246		
					Jul	CC	97	15489		
					Aug	CC	68	10467		
					Sep	CC	30	5249		
					Oct	CC	28	4324		
					Nov	CC	6	929		
				NK	Aug	CC	1	132	3	84
					Sep	CC	2	285		
					Oct	CC	8	1245		

CANADA (N)

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples			
					No.	No. meas.	No.	No. aged		
<u>1985</u>										
COD	2J	GN	Jul	CL	1	181	-	467 ¹		
			Aug	CL	13	2998				
				LHP	Jul	CL	5	606	-	467 ¹
					Aug	CL	6	1412		
				FPN	Jul	CL	6	1819	-	467 ¹
					Aug	CL	15	5112		
				3K	Jan	CL	7	2382	-	514
					Feb	CL	9	3246		
					Mar	CL	27	9206		
					Apr	CL	17	5798		
					May	CL	13	5280		
					Jun	CL	1	532		
				GN	Jul	CL	15	2080	-	797 ²
					Aug	CL	3	259		
					Sep	CL	5	1437		

Canada (N)

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples				
					No.	No. meas.	No.	No. aged			
COD	3K	LL	Jul	CL	5	907	-	797 ²			
			Aug	CL	6	710					
			Sep	CL	1	23					
		LHP	Jul	CL	1	209			-	797 ²	
			Aug	CL	49	4969					
			Sep	CL	27	4013					
		FPN	Jul	CL	34	11488			-	797 ²	
			Aug	CL	5	1796					
		3L	OTB	Feb	CL	1			281	-	62
	May			CL	6	1665					
	Jun			CL	5	1214					
	Jul			CL	4	1501					
	Aug			CL	1	213					
	Sep			CL	7	2343					
	Oct			CL	8	2235					
	Nov			CL	14	4442					
	Dec			CL	17	5620					
	GN			May	CL	9	2579	-	422 ⁴		
				Jun	CL	10	3324				
				Jul	CL	19	2738				
			Aug	CL	3	841					
Sep			CL	6	1140						
LL	Aug		CL	3	1064	-	1257 ⁵				
	Sep	CL	9	2798							
LHP	Jun	CL	3	925	-	1257 ⁵					
	Jul	CL	19	2228							
	Aug	CL	14	2402							
	Sep	CL	14	3173							
FPN	May	CL	2	568	-	422 ⁴					
	Jun	CL	21	8847							
	Jul	CL	19	7418							
	Aug	CL	1	408							
3N	OTB	May	CL	5	1267	-	397				
		Jun	CL	2	578						
		Jul	CL	3	538						
		Aug	CL	1	269						
		Sep	CL	1	213						
		Oct	CL	1	246						
		Nov	CL	4	976						
30	OTB	Feb	CL	4	534	-	436				
		Mar	CL	7	1353						
		Apr	CL	7	1924						
		May	CL	3	898						
		Nov	CL	1	204						
3Ps	OTB	Feb	CL	5	1417	-	372				
		Mar	CL	2	508						
		Dec	CL	3	1151						
	GN	May	CL	12	3595	-	815 ⁷				
		Jun	CL	5	2302						
		Jul	CL	7	2748						
		Aug	CL	5	679						

Canada (N)

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples			
					No.	No. meas.	No.	No. aged		
COD	3Ps	LL	Jan	CL	9	4181	-	500		
			Feb	CL	9	3179	-			
			May	CL	12	3530	-			
			Aug	CL	6	1728	-			
			Sep	CL	23	5708	-			
			Oct	CL	1	245	-			
			Nov	CL	2	858	-			
		LHP	Jul	CL	1	817	-	479 ⁸		
			Aug	CL	1	182	-	759 ⁹		
			Sep	CL	10	1509	-	815 ⁷		
		FPN	May	CL	5	2499	-	479 ⁸		
			Jun	CL	17	7509	-			
			Jul	CL	2	1946	-			
			Aug	CL	2	949	-			
		HAD	30	OTB	Mar	CL	4	1795	-	-
Apr	CL				6	2126	-	-		
May	CL				1	446	-	-		
Nov	CL				1	544	-	-		
3Ps	OTB		Feb	CL	1	553	-	-		
			Apr	CL	1	426	-	-		
POK	3Ps		FPN	Jun	CL	1	436	-	-	
REB	3K		OTB	Jan	CL	8	1358/1872	-	287/409	
				Feb	CL	6	1025/1278	-		
				Mar	CL	8	1647/2101	-		
		Apr		CL	2	332/369	-			
		May		CL	6	1599/1596	-			
		Jun		CL	2	414/563	-			
		Jul		CL	2	412/666	-			
		Aug		CL	5	1123/1346	-			
		Sep		CL	2	344/436	-			
		Oct		CL	2	418/543	-			
		Nov		CL	3	496/658	-			
		Dec		CL	4	552/834	-			
		3L	OTB	Feb	CL	1	109/346	-	60/95	
				Apr	CL	1	113/205	-	60/92	
				Oct	CL	2	254/398	-	200/272	
				Nov	CL	1	390/152	-		
				Dec	CL	1	155/191	-		
				Jul	CL	2	380/364	-	79/85	
		3Ps	OTB	Jul	CL	4	838/895	-	279/317	
				Sep	CL	2	516/462	-		
		PLA	3K	LL	Jan	CL	1	110/134	-	-
				OTB	May	CL	1	37/353	-	24/63
GN	Jul				CL	1	21/146	-	54/113	
	Aug				CL	2	145/700	-	73/156	
	Sep			CL	2	99/764	-			
OTB	Mar			CL	7	670/1386	-	216/391		
	Apr			CL	1	216/241	-	294/464		
	May			CL	2	467/349	-			
	Jun			CL	11	1917/2554	-			
	Jul			CL	6	993/1725	-	285/450		
	Aug			CL	1	129/214	-			
	Sep	CL	8	666/2195	-					

Canada (N)

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
PLA	3L	OTB	Oct	CL	15	1477/4133	-	286/502
			Nov	CL	7	584/2138		
			Dec	CL	8	532/2178		
		GN	May	CL	10	1188/3175	-	257/338
			Jun	CL	10	529/3499		
			Jul	CL	2	52/701		
			Aug	CL	1	47/325		
			Sep	CL	2	49/523		
			Oct	CL	2	135/778		
	3N	OTB	Feb	CL	3	442/416	-	113/170
			May	CL	2	254/640		
			Jun	CL	7	676/1758		
			Jul	CL	5	688/1339		
			Aug	CL	3	352/680		
			Sep	CL	3	253/531		
			Oct	CL	2	324/414		
			Nov	CL	6	884/1281		
			30	OTB	Feb	CL		
	Mar	CL			1	96/278		
	Apr	CL			4	296/918		
	May	CL			3	306/712		
Nov	CL	1			56/341			
3Ps	OTB	Feb	CL	3	172/600	-	259/474	
		Mar	CL	7	691/1601			
		Nov	CL	1	121/216			
WIT	2J	OTB	Aug	CL	1	57/455	-	30/57
	3K	OTB	Mar	CL	1	283/115	-	52/64
			Apr	CL	1	178/104		
			Jun	CL	1	141/126		
	GN		Jul	CL	2	147/299	-	147/214
			Aug	CL	2	153/688		
			Sep	CL	5	415/644		
	3L	OTB	Sep	CL	1	276/101	-	46/42
	GN		Jul	CL	7	872/1444	-	329/440
			Aug	CL	2	78/288		
Sep			CL	1	160/207			
30	OTB	Feb	CL	5	686/1154	-	261/328	
		Mar	CL	7	1397/1273			
		Apr	CL	10	2224/2169			
3Ps	OTB	Feb	CL	1	167/164	-	38/54	
YEL	3L	OTB	Mar	CL	6	1213/1242	-	157/210
			Apr	CL	1	244/170		
			May	CL	1	227/196		
			Jun	CL	4	808/575		
			Jul	CL	2	522/321		
			Nov	CL	2	479/572		
	3N	OTB	Feb	CL	11	2428/2459	-	193/255
			Mar	CL	1	136/207		
			May	CL	5	1232/1153		
			Jun	CL	2	429/456		
Aug	CL	3	513/837	-	114/163			
Sep	CL	1	246/196	-				
Nov	CL	9	2144/1955	-	190/246			

Canada (N)

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
YEL	30	OTB	May	CL	2	688/453	-	45/47
GHL	2H	OTB	Aug	CL	2	406/404	-	176/239
			Sep	CL	1	164/309		
	2J	OTB	Jul	CL	2	130/199	-	311/463
			Aug	CL	5	602/737		
			Sep	CL	2	179/230		
	3K	GN	Jul	CL	2	243/339	-	212/270
			Aug	CL	8	1355/1843		
			Sep	CL	5	841/1274		
	3L	GN	May	CL	2	285/384	-	81/108
			Jun	CL	7	1024/1418		
			Jul	CL	6	1188/1495		
			Aug	CL	3	440/629		
			Sep	CL	10	1373/2442		
HAL	3K	GN	Jul	CL	2	21/23	-	-
	30	OTB	Apr	CL	1	36/25	-	-

¹ Same key for GN, LHP and FPN.

² Same key for GN, LL, LHP and FPN.

³ Same key for GN, LL and LHP.

⁴ Same key for GN and FPN.

⁵ Same key for GN, LL, LHP and FPN.

⁶ Same key for GN, LL and LHP.

⁷ Same key for GN, LL and FPN.

⁸ Same key for GN, LL, LHP and FPN.

⁹ Same key for LL and LHP.

CUBA

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
HKS	4W	OTB	Apr	CC	37	15594/11123	-	-
			May	CC	39	15333/9104		

FRANCE (SP)

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples				
					No.	No. meas.	No.	No. aged			
COD	3Pn	OTB	Feb	CC	1	168	-	-			
			3Ps	OTB	Jan	CL	1	203	-	87	
	Mar	CL			1	195					
	Apr	CL			2	393					
	May	CL			2	405					
	Jun	CL			2	400					
	Jul	CL			2	433					
	Oct	CL			1	188					
	Nov	CL			2	402					
	Dec	CL			1	243					
	LHP	May			CL	2	447	-			79
						2	418				
						1	223				
						2	290				
	Sep	CL	2	384	-	109					

France (SP)

Species	NAFO Div.	Gear	Month	Type sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
COD	4R	OTB	Jan	CC	1	214	-	-
			Feb	CC	4	755		
			Jan	CL	1	205		
			Mar	CL	1	212		
	4Vn	OTB	Feb	CC	5	956	-	-
			Feb	CL	1	224	-	-
HAD	3Ps	OTB	Apr	CL	1	156	-	-
			May	CL	1	186		
			Jun	CL	1	164		
			Jul	CL	2	431		
			Sep	CL	1	193		
			Oct	CL	2	392		
			Dec	CL	1	149		

GERMAN DEMOCRATIC REPUBLIC

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
GHL	0B	OTB	Nov	CC	8	1335/575	3	141/135
	2H	OTB	Nov	CC	6	759/564	3	123/145
MAC	6B	OTM	Jan	CC	4	1298	4	361
			Feb	CC	3	1098		
			Mar	CC	3	984		
			Apr	CC	1	421		

PORTUGAL

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
COD	3L	OTB	Feb	CC	10	1042	-	-
			Mar	CC	11	1201		
	3M	OTB	Mar	CC	3	335	3	127
	3N	OTB	Mar	CC	8	817	-	-
	3O	OTB	Mar	CC	1	80	-	-
			Apr	CC	1	95	-	-
RED	3L	OTB	Apr	CC	2	249	-	-
			Mar	CC	1	141	-	-
	3M	OTB	Apr	CC	2	266	-	-
			Mar	CC	5	808	-	-
	3N	OTB	Apr	CC	2	282	-	-
			Mar	CC	5	646	-	-
	3O	OTB	Apr	CC	15	2004	-	-
			Mar	CC	5	575	-	-
PLA	3O	OTB	Apr	CC	5	575	-	-

SPAIN

Species	NAFO Div.	Gear	Month	Type sample	Length samples		Age samples		
					No.	No. meas.	No.	No. aged	
COD	3L	PTB	May	CL	6	1375	-	112	
	3M	PTB	Apr	CL	6	1278	-	567	
			May	CL	5	1142			
			Jun	CL	1	224			
	3N	PTB	May	CL	7	1527	-	693	
			Jun	CL	13	2907			
	3NO	OTB	Jun	CC	1	81	-	-	
			Jul	CL	10	1072	-	-	
	HAD	3N	OTB	Apr	CL	1	167	-	-
	RED	3N	OTB	Apr	CL	7	1158	-	-
Jun				CL	5	1023	-	-	
HKS	3N	OTB	Apr	CC	5	859	-	-	
PLA	3L	OTB	Nov	CL	1	143	-	-	
	3N	OTB	Mar	CC	10	2014	-	-	
			Jun	CC	22	4369			
	3N	OTB	Mar	CL	6	1002	-	-	
			Apr	CL	5	533			
			May	CL	24	3409			
			Jun	CL	6	907			
			Jul	CL	28	3739			
			Oct	CL	36	3497			
			Nov	CL	12	1562			
			Dec	CL	10	1092			
	WIT	3N	OTB	Mar	CL	3	309	-	-
				Apr	CL	4	767		
Oct				CL	26	2448			
Nov				CL	3	447			
Dec				CL	12	1757			
YEL	3N	OTB	Mar	CL	20	3897	-	-	
			Apr	CL	17	3176			
			May	CL	20	3325			
			Jun	CL	6	671			
			Jul	CL	18	2635			
			Oct	CL	21	2207			
			Nov	CL	28	5553			
HKW	3N	OTB	Apr	CC	7	939	-	-	
	3N	OTB	Apr	CL	1	161	-	-	
			Jun	CL	9	942			
			Jul	CL	19	863			
			Dec	CL	4	351			
SKA	3N	OTB	Mar	CL	3	472	-	-	
			Oct	CL	5	284			
			Nov	CL	2	98			
			Dec	CL	1	55			

USSR

Species	NAFO Div.	Gear	Month	Type sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
COD	3K	OTB	Q2	EC	-	-	15	285
	3L	OTB	Q2	EC	-	-	4	203
	3M	OTB	Q2	EC	-	-	44	447
	3N	OTB	Q2	EC	-	-	49	797
REB	3M	OTM	Jul	CC	6	704/807	-	-
	3N	OTB	Apr	CC	8	1105/775	-	-
			May	CC	4	503/392		
		OTM	Apr	CC	11	1157/1341	-	-
			May	CC	1	85/138		
	3O	OTB	Jul	CC	1	96/117	-	-
	3L	OTB	Q2	EC	-	-	15	556/623
	3M	OTB	Q2	EC	-	-	21	253/289
3O	OTB	Q2	EC	-	-	9	196/242	
HKS	4W	OTB	May	CC	132	15722/10708	-	164/205
			Jun	CC	171	15007/19200	-	95/173
			Jul	CC	164	18888/13913	-	120/198
			Aug	CC	79	8105/7794	-	84/139

CANADA (M) (processed in Nfld.)

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
COD	2J	OTB	Feb	CL	1	210	-	-
	3K	OTB	Jan	CL	2	844	-	-
			Mar	CL	3	918		
			May	CL	2	795		
3L	OTB	Feb	CL	1	236	-	-	
HAD	3O	OTB	Jun	CL	1	187	-	-
			Sep	CL	1	324	-	-
			Oct	CL	2	436	-	-
	3Ps	OTB	Sep	CL	1	203	-	-
REB	3K	OTB	Jan	CL	1	88/117	-	-
			Feb	CL	2	200/205		
			Mar	CL	4	375/454		
			Apr	CL	1	200/200		
			Dec	CL	1	228/197		
	3L	OTB	Apr	CL	1	135/65	-	-
		Dec	CL	1	187/191	-	-	
	3Ps	OTB	Apr	CL	1	126/124	-	-
WIT	3K	OTB	Dec	CL	2	324/213	-	-

CANADA (M) - SCIENTIFIC OBSERVER PROGRAM - CANADA (M)

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples			
					No.	No. meas.	No.	No. aged		
COD	2H	OTB	Aug	OC	4	707	-	-		
			Sep	OC	5	1489	-	-		
	3K	OTB	Mar	OC	15	2593	-	-		
			3L	OTB	Sep	OC	4	716	-	-
					Oct	OC	21	2681	-	-
					Nov	OC	1	47	-	-
	Dec	OC			3	361	-	-		
	3N	OTB	Jun	OC	2	164	-	-		
			Jul	OC	2	159	-	24		
			Oct	OC	5	620	-	-		
			Nov	OC	10	1250	-	-		
	3O	OTB	Jan	OC	1	104	-	46		
			Mar	OC	3	245	-	-		
			Sep	OC	1	11	-	-		
			Oct	OC	1	80	-	-		
			Dec	OC	4	460	-	-		
	3Ps	OTB	Jan	OC	6	435	-	24		
			Mar	OC	3	325	-	-		
			Apr	OC	1	99	-	-		
			May	OC	1	30	-	-		
			Jul	OC	2	192	-	-		
			Aug	OC	1	110	-	-		
			Sep	OC	1	55	-	-		
			Nov	OC	2	100	-	-		
			Dec	OC	3	519	-	-		
			4R	OTB	Jan	OC	1	12	-	-
					May	OC	8	1538	-	-
	Aug	OC			5	140	-	-		
	Sep	OC			7	393	-	-		
	Oct	OC			14	544	-	-		
	4S	OTB	Jan	OC	1	69	-	-		
			Aug	OC	2	138	-	-		
			Oct	OC	1	36	-	-		
	4Vn	OTB	Jan	OC	8	749	-	24		
			Feb	OC	4	347	-	-		
			Jul	OC	1	132	-	-		
			Aug	OC	1	207	-	-		
			Oct	OC	3	425	-	-		
			Nov	OC	2	218	-	-		
	4Vs	OTB	Jan	OC	44	6045	-	172		
			Feb	OC	14	2145	-	58		
			Mar	OC	58	9295	-	312		
			Apr	OC	15	2211	-	110		
May			OC	16	2048	-	36			
Jun			OC	21	2935	-	56			
Jul			OC	37	4853	-	112			
Aug			OC	10	1352	-	25			
Sep			OC	26	3902	-	-			
Oct			OC	41	6658	-	-			
Nov			OC	28	4411	-	-			
Dec			OC	12	1678	-	-			
4W			OTB	Jan	OC	1	6	-	-	
	Mar	OC		10	2008	-	-			
	Apr	OC		1	232	-	-			
	Nov	OC		1	153	-	-			

Canada (M)

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples			
					No.	No. meas.	No.	No. aged		
COD	4X	OTB	Feb	OC	5	170	-	41		
			Jul	OC	1	100	-	-		
			Aug	OC	9	455	-	-		
	5Ze	OTB	Aug	OC	4	235	-	48		
			Nov	OC	1	24	-	17		
			Dec	OC	4	290	-	6		
		LL	Jul	OC	1	48	-	-		
			Aug	OC	40	1986	-	21		
			Sep	OC	33	2122	-	-		
	HAD	3L	OTB	Dec	OC	1	58	-	-	
30		OTB	Jan	OC	1	60	-	-		
			Mar	OC	1	144	-	-		
			Apr	OC	1	119	-	-		
			May	OC	1	203	-	-		
			Sep	OC	11	1521	-	-		
			Oct	OC	3	546	-	-		
			Nov	OC	4	227	-	-		
			Dec	OC	1	169	-	-		
			3Ps	OTB	Jan	OC	1	34	-	-
					Mar	OC	4	340	-	23
May		OC			1	38	-	-		
Jul		OC			8	1112	-	-		
Aug		OC			5	649	-	-		
Sep		OC			4	499	-	-		
Oct		OC			5	672	-	-		
Nov		OC			1	40	-	-		
Dec		OC			1	83	-	-		
4Vn		OTB			Jan	OC	1	13	-	-
			Feb	OC	1	31	-	17		
			Oct	OC	1	186	-	-		
4Vs		OTB	Jan	OC	5	552	-	42		
			Feb	OC	16	2241	-	67		
			Mar	OC	18	2210	-	172		
			Apr	OC	14	2267	-	82		
			May	OC	12	1943	-	91		
			Jun	OC	31	4641	-	215		
			Jul	OC	20	2646	-	65		
			Aug	OC	3	596	-	-		
			Sep	OC	13	2327	-	-		
			Oct	OC	12	1734	-	-		
			Nov	OC	6	687	-	-		
			Dec	OC	2	431	-	-		
			4W	OTB	Jan	OC	3	267	-	33
Mar		OC			13	2386	-	51		
Apr		OC			2	337	-	38		
May		OC			6	567	-	24		
Jun		OC			3	167	-	-		
Nov		OC			1	5	-	-		
Dec		OC			2	200	-	-		
4X		OTB			Feb	OC	17	2715	-	176
			Jun	OC	6	690	-	-		
			Nov	OC	2	103	-	-		
		LL	Jul	OC	1	195	-	-		
			Aug	OC	6	502	-	-		

Canada (M)

Species	NAFO Div.	Gear	Month	Type of sample.	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
HAD	5Ze	OTB	Aug	OC	5	656	-	46
			Nov	OC	4	480	-	49
			Dec	OC	2	86	-	-
		LL	Jul	OC	1	59	-	-
			Aug	OC	27	1477	-	22
			Sep	OC	32	1905	-	22
RED	2H	OTB	Aug	OC	4	1192	-	-
			Sep	OC	3	825	-	-
	3K	OTB	Mar	OC	7	1570	-	-
			3L	OTB	Mar	OC	3	831
	Sep	OC			1	208	-	-
	Nov	OC			3	674	-	-
	3N	OTB	Jun	OC	5	864	-	-
			Jul	OC	7	758	-	-
	3O	OTB	Jan	OC	2	139	-	34
			May	OC	1	97	-	-
			Jun	OC	2	425	-	-
			Oct	OC	2	271	-	-
			Nov	OC	3	486	-	-
	3Pn	OTB	Jan	OC	10	2073	-	-
			Jul	OC	5	1325	-	-
			Aug	OC	1	151	-	-
			Sep	OC	4	856	-	-
	3Ps	OTB	Jan	OC	2	316	-	-
			May	OC	1	165	-	-
			Jul	OC	4	655	-	-
			Aug	OC	1	303	-	-
			Sep	OC	2	441	-	-
	4R	OTB	Jan	OC	12	2597	-	77
			May	OC	1	208	-	-
			Aug	OC	8	2134	-	-
			Sep	OC	14	2926	-	-
			Oct	OC	35	7298	-	-
	4S	OTB	Jan	OC	2	387	-	-
			May	OC	11	2403	-	23
			Aug	OC	3	425	-	-
Sep			OC	2	382	-	-	
Oct			OC	11	1931	-	-	
4Vn	OTB	Feb	OC	1	27	-	-	
		Jul	OC	2	452	-	-	
		Sep	OC	1	226	-	-	
		Oct	OC	5	789	-	-	
4Vs	OTB	Jan	OC	11	1660	-	71	
		Feb	OC	12	1753	-	-	
		Mar	OC	12	1442	-	92	
		Apr	OC	2	260	-	-	
		May	OC	2	172	-	-	
		Jun	OC	5	910	-	-	
		Jul	OC	23	3588	-	61	
		Aug	OC	2	239	-	-	
		Oct	OC	9	882	-	-	
		Nov	OC	1	33	-	-	

Canada (M)

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples				
					No.	No. meas.	No.	No. aged			
RED	4W	OTB	Jan	OC	1	129	-	17			
			Jun	OC	4	498	-	-			
			Jul	OC	3	728	-	-			
			Aug	OC	1	171	-	-			
	4X	OTB	Jan	OC	1	21	-	-			
			Feb	OC	2	366	-	-			
			Jun	OC	2	246	-	24			
			Nov	OC	1	175	-	-			
	4NK	OTB	Aug	OC	2	573	-	-			
	HKS	30	OTB	May	OC	1	6	-	-		
				Oct	OC	2	368	-	-		
		3Ps	OTB	Jan	OC	1	172	-	-		
Oct				OC	1	16	-	-			
4Vn		OTB	Oct	OC	1	32	-	-			
4Vs		OTB	Feb	OC	3	47	-	-			
			Apr	OC	2	155	-	-			
			May	OC	1	130	-	-			
			Jul	OC	5	327	-	61			
			Aug	OC	1	200	-	32			
			Sep	OC	3	430	-	-			
			Oct	OC	3	71	-	-			
			Nov	OC	6	734	-	-			
			Dec	OC	1	111	-	-			
			4W	OTB	Jan	OC	1	4	-	4	
May		OC			1	13	-	-			
Aug		OC			1	142	-	-			
5Ze		OTB	Aug	OC	2	31	-	8			
HKR		4Vs	OTB	Jul	OC	1	41	-	-		
POL		3Pn	OTB	Oct	OC	1	17	-	-		
				3Ps	OTB	Jan	OC	3	189	-	-
						Jul	OC	2	116	-	-
	Aug					OC	1	50	-	-	
	Oct	OC	5			363	-	-			
	4R	OTB	Oct	OC	1	10	-	-			
	4S	OTB	Oct	OC	1	73	-	-			
	4Vn	OTB	Jan	OC	1	4	-	-			
			Feb	OC	1	8	-	-			
			Oct	OC	2	185	-	-			
	4Vs	OTB	Jan	OC	12	774	-	44			
			Feb	OC	6	765	-	44			
			Mar	OC	25	3126	-	141			
			Apr	OC	10	1452	-	51			
			May	OC	8	833	-	31			
			Jun	OC	10	1029	-	25			
			Jul	OC	14	1670	-	85			
			Aug	OC	4	683	-	-			
			Sep	OC	14	2116	-	-			
			Oct	OC	27	4184	-	-			
Nov			OC	9	999	-	-				
Dec			OC	3	180	-	-				

Canada (M)

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples		
					No.	No. meas.	No.	No. aged	
POL	4W	OTB	Jan	OC	6	742	-	11	
			Mar	OC	1	91	-	-	
			Jun	OC	2	329	-	-	
			Jul	OC	3	314	-	-	
			Aug	OC	1	73	-	7	
			Nov	OC	2	125	-	-	
			Dec	OC	1	129	-	-	
			4X	OTB	Jan	OC	2	139	-
	Feb	OC			9	1065	-	19	
	Mar	OC			2	585	-	-	
	Apr	OC			2	246	-	-	
	Jun	OC			2	190	-	-	
	Nov	OC			5	553	-	10	
	5Ze	OTB			Aug	OC	3	77	-
			Nov	OC	3	310	-	31	
			Dec	OC	1	133	-	-	
			LL	Aug	OC	1	38	-	-
				Sep	OC	1	42	-	-
	PLA	3L	OTB	Sep	OC	1	101	-	-
				Oct	OC	6	654	-	-
Nov				OC	6	1086	-	-	
3N		OTB	Jul	OC	2	148	-	-	
			Oct	OC	10	1519	-	-	
			Nov	OC	1	193	-	-	
30		OTB	May	OC	1	119	-	-	
			Oct	OC	5	586	-	-	
3Ps		OTB	Jan	OC	1	46	-	-	
			Mar	OC	5	975	-	46	
			Sep	OC	2	110	-	-	
4Vn		OTB	Nov	OC	1	33	-	-	
4Vs		OTB	Jan	OC	10	932	-	84	
			Feb	OC	4	301	-	32	
			Mar	OC	4	450	-	23	
			Apr	OC	6	716	-	-	
			May	OC	5	318	-	44	
			Jun	OC	3	491	-	-	
			Jul	OC	29	3632	-	-	
			Aug	OC	6	1141	-	-	
	Sep		OC	8	1198	-	-		
	Oct		OC	3	452	-	-		
	Nov		OC	2	36	-	-		
4X	OTB	Feb	OC	2	66	-	-		
WIT	3K	OTB	Mar	OC	3	36	-	-	
			Nov	OC	1	29	-	-	
	3N	OTB	Jul	OC	1	115	-	-	
			Mar	OC	2	245	-	25	
	30	OTB	Sep	OC	1	8	-	-	
			Jan	OC	2	167	-	20	
Jul	OC	3	164	-	-				

Canada (M)

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples		
					No.	No. meas.	No.	No. aged	
WIT	3Ps	OTB	Jan	OC	2	49	-	-	
			Mar	OC	3	509	-	31	
			May	OC	1	224	-	-	
			Jul	OC	1	62	-	-	
			Aug	OC	1	30	-	-	
			Sep	OC	1	144	-	-	
			Oct	OC	4	555	-	-	
	4R	OTB	Jan	OC	1	224	-	-	
			May	OC	1	136	-	-	
			Oct	OC	1	83	-	-	
	4S	OTB	Oct	OC	1	16	-	-	
	4Vn	OTB	Oct	OC	1	26	-	-	
	4Vs	OTB	Jan	OC	8	1078	-	33	
			Feb	OC	5	608	-	12	
			Apr	OC	1	98	-	31	
			Jul	OC	3	231	-	-	
			Oct	OC	1	14	-	-	
	4W	OTB	Jan	OC	1	11	-	-	
	YEL	3L	OTB	Oct	OC	3	200	-	-
				Nov	OC	1	122	-	-
3N		OTB	Oct	OC	2	176	-	-	
			Nov	OC	3	499	-	-	
4Vs		OTB	Jan	OC	3	211	-	10	
			Apr	OC	4	545	-	-	
			May	OC	5	594	-	21	
			Jun	OC	6	761	-	-	
			Jul	OC	27	3116	-	46	
			Aug	OC	3	464	-	-	
			Sep	OC	9	1336	-	-	
			Oct	OC	3	274	-	-	
			Nov	OC	12	1548	-	-	
Dec	OC	1	164	-	-				
GHL	2H	OTB	Aug	OC	1	462	-	-	
			Sep	OC	3	673	-	-	
	3N	OTB	Jul	OC	1	76	-	-	
4R	OTB	Oct	OC	1	11	-	-		
HAL	30	OTB	Jan	OC	1	65	-	-	
			Mar	OC	6	80	-	-	
			May	OC	2	46	-	-	
			Oct	OC	4	61	-	-	
	Nov	OC	3	46	-	-			
	3Ps	OTB	Jan	OC	4	199	-	-	
			Mar	OC	2	23	-	-	
May			OC	3	103	-	-		
Oct			OC	3	72	-	-		
Nov			OC	4	60	-	-		
4Vs	OTB	Jan	OC	1	9	-	-		
FLW	3L	OTB	Oct	OC	4	299	-	-	
	3N	OTB	Sep	OC	3	221	-	-	
	30	OTB	Sep	OC	1	126	-	-	

Canada (M)

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
FLW	4X	OTB	Feb	OC	2	81	-	-
	5Ze	OTB	Aug	OC	2	28	-	20
CUSK	4X	LL	Aug	OC	1	58	-	-
	5Ze	LL	Aug Sep	OC OC	2 3	108 116	-	-
HKW	30	OTB	Jun	OC	1	21	-	-
	3Pn	OTB	Jul	OC	1	53	-	-
	3Ps	OTB	Aug Oct	OC	1	14	-	-
				OC	2	114	-	-
	4R	OTB	Jan Oct	OC	2	116	-	-
				OC	5	279	-	-
	4S	OTB	Oct	OC	1	73	-	-
	4Vn	OTB	Jul	OC	1	147	-	-
	4Vs	OTB	Jul Nov	OC	2	334	-	-
				OC	1	20	-	-
	4W	OTB	Jul	OC	1	225	-	-
5Ze	LL	Aug	OC	1	107	-	-	
HER	4R	OTB	May	OC	1	55	-	-
ARG	4Vs	OTB	Feb	OC	1	47	-	-
			Jul	OC	1	22	-	-
SQI	3Pn	OTB	Oct	OC	1	5	-	-
	4R	OTB	Oct	OC	7	30	-	-
	4S	OTB	Oct	OC	1	12	-	-
	4Vn	OTB	Oct	OC	1	8	-	-
	4Vs	OTB	Feb Jun	OC	2	2	-	-
				OC	2	82	-	-
	4W	OTB	Jan	OC	1	90	-	-
	5Ze	OTB	Aug	OC	2	74	-	-
PAN	2H	OTB	Aug	OC	23	7116	-	-
			Sep	OC	24	7365	-	-
	2J	OTB	Aug Sep	OC	1	286	-	-
				OC	2	568	-	-
NK	OTB	Aug	OC	4	1212	-	-	

CUBA - SCIENTIFIC OBSERVER PROGRAM - CANADA (M)

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
COD	4W	OTB	Apr	OC	2	9	-	7
			Jun	OC	1	18	-	10
HAD	4W	OTB	May	OC	23	2264	-	76
			Jun	OC	28	4792	-	43
			Jul	OC	5	930	-	-
RED	4Vs	OTB	May	OC	1	196	-	-
	4W	OTB	Apr	OC	47	11915	-	-
			May	OC	30	5017	-	71
Jun	OC	1	108	-	-			
HKS	4W	OTB	Apr	OC	92	40682	-	178
			May	OC	170	42428	-	142
			Jun	OC	84	19985	-	81
			Jul	OC	13	2728	-	52
HKR	4W	OTB	Jul	OC	2	424	-	-
			Apr	OC	3	121	-	-
POL	4W	OTB	May	OC	18	1547	-	-
			Jun	OC	1	6	-	-
			Apr	OC	8	246	-	11
PLA	4W	OTB	May	OC	7	568	-	53
			Jun	OC	4	164	-	15
			Jul	OC	1	165	-	-
			Apr	OC	10	765	-	-
WIT	4W	OTB	May	OC	10	906	-	44
			Jun	OC	3	69	-	-
			Apr	OC	17	880	-	-
HAL	4W	OTB	May	OC	1	8	-	-
			Jun	OC	1	14	-	-
			Apr	OC	1	12	-	-
FLW	4W	OTB	Jun	OC	1	16	-	-
			Apr	OC	1	8	-	-
CUSK	4W	OTB	May	OC	1	76	-	-
			Apr	OC	1	8	-	-
HKW	4W	OTB	Apr	OC	4	193	-	20
			Jun	OC	1	56	-	-
HER	4W	OTB	May	OC	2	244	-	-
			Jun	OC	1	137	-	-
MAC	4W	OTB	Apr	OC	1	37	-	-
			May	OC	14	2192	-	-
			Jun	OC	2	216	-	-
			Jul	OC	2	422	-	-
			May	OC	1	132	-	-
ALE	4W	OTB	May	OC	1	132	-	-
SHA	4W	OTB	Apr	OC	1	13	-	-
ARG	4W	OTB	Apr	OC	19	2866	-	-
			May	OC	10	1049	-	13
			Jun	OC	3	280	-	12
SQI	4W	OTB	Apr	OC	24	89	-	-
			May	OC	11	119	-	-
			Jun	OC	24	4075	-	-
			Jul	OC	4	602	-	-

FRANCE (M) - SCIENTIFIC OBSERVER PROGRAM - CANADA (M)

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples		
					No.	No. meas.	No.	No. aged	
COD	3Pn	OTB	Jan	OC	3	471	-	35	
			Feb	OC	15	1998	-	32	
			Mar	OC	3	436	-	45	
			Apr	OC	1	156	-	-	
	3Ps	OTB	Apr	OC	1	159	-	-	
	4R	OTB	Jan	OC	20	3733	-	119	
			Feb	OC	55	10705	-	93	
			Mar	OC	16	3136	-	40	
			Apr	OC	25	4460	-	114	
	4Vn	OTB	Jan	OC	43	7905	-	109	
			Feb	OC	63	12561	-	26	
	HAD	3Pn	OTB	Jan	OC	5	165	-	80
				Feb	OC	12	1136	-	85
				Mar	OC	1	19	-	-
3Ps		OTB	Apr	OC	1	155	-	-	
4R		OTB	Jan	OC	12	1526	-	200	
			Feb	OC	37	4595	-	87	
			Mar	OC	12	1501	-	-	
			Apr	OC	9	574	-	38	
4Vn		OTB	Jan	OC	6	44	-	26	
			Feb	OC	28	3130	-	191	
RED		3Pn	OTB	Jan	OC	4	165	-	42
				Feb	OC	10	589	-	-
				Mar	OC	4	425	-	-
				Apr	OC	1	61	-	-
	4R	OTB	Jan	OC	6	245	-	32	
			Feb	OC	19	1395	-	-	
			Mar	OC	1	25	-	-	
			Apr	OC	9	200	-	-	
	4T	OTB	Jan	OC	1	45	-	45	
	4Vn	OTB	Jan	OC	7	184	-	58	
			Feb	OC	17	1682	-	47	
	HKS	3Pn	OTB	Feb	OC	2	54	-	-
		4R	OTB	Jan	OC	1	8	-	8
		4Vn	OTB	Feb	OC	3	13	-	-
HKR	4Vn	OTB	Feb	OC	1	45	-	-	
POL	3Pn	OTB	Feb	OC	2	107	-	-	
			Mar	OC	1	10	-	-	
	3Ps	OTB	Apr	OC	1	29	-	-	
	4R	OTB	Jan	OC	4	17	-	-	
			Feb	OC	22	1266	-	-	
			Mar	OC	5	148	-	-	
			Apr	OC	4	21	-	-	
	4Vn	OTB	Jan	OC	16	995	-	69	
			Feb	OC	29	2149	-	68	

France (M)

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples		
					No.	No. meas.	No.	No. aged	
PLA	4R	OTB	Jan	OC	7	268	-	8	
			Feb	OC	3	45	-	-	
			Apr	OC	6	161	-	-	
	4Vn	OTB	Jan	OC	8	1048	-	133	
			Feb	OC	6	90	-	-	
	WIT	4R	OTB	Feb	OC	3	35	-	-
Apr				OC	8	141	-	-	
4Vn		OTB	Jan	OC	13	73	-	35	
			Feb	OC	6	408	-	-	
YEL		4Vn	OTB	Jan	OC	1	2	-	-
GHL		4R	OTB	Jan	OC	1	2	-	2
HAL	4R	OTB	Jan	OC	2	7	-	1	
	4Vn	OTB	Jan	OC	1	2	-	-	
HKW	4Vn	OTB	Jan	OC	1	44	-	-	
			Feb	OC	2	221	-	-	
HER	4R	OTB	Jan	OC	3	50	-	-	
			Feb	OC	1	1	-	-	
	4Vn	OTB	Feb	OC	2	262	-	-	
ARG	3Pn	OTB	Jan	OC	1	19	-	-	
			Feb	OC	3	366	-	-	
	4R	OTB	Jan	OC	1	1	-	-	
CAP	4Vn	OTB	Jan	OC	1	2	-	-	
			Feb	OC	1	5	-	-	
SQI	4Vn	OTB	Jan	OC	1	1	-	-	
			Feb	OC	3	3	-	-	

FRANCE (SP) - SCIENTIFIC OBSERVER PROGRAM - CANADA (M)

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
COD	3Pn	OTB	Feb	OC	1	262	-	-
			Mar	OC	1	107	-	-
			Apr	OC	4	748	-	-
	3Ps	OTB	Jan	OC	4	742	-	28
			Feb	OC	2	246	-	-
			Mar	OC	3	571	-	-
			Apr	OC	3	328	-	19
	4R	OTB	Feb	OC	3	638	-	-
			Apr	OC	1	217	-	-
	4Vn	OTB	Jan	OC	21	5420	-	77
			Feb	OC	23	5239	-	100
			Apr	OC	5	1161	-	40

France (SP)

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
HAD	3Pn	OTB	Feb	OC	1	86	-	42
			Mar	OC	1	56	-	25
			Apr	OC	1	64	-	-
	3Ps	OTB	Jan	OC	2	329	-	31
			Feb	OC	3	134	-	-
	4Vn	OTB	Feb	OC	3	204	-	-
			Apr	OC	1	5	-	5
	RED	3Pn	OTB	Apr	OC	1	5	-
4Vn				OTB	Feb	OC	3	305
POL	3Pn	OTB	Apr	OC	2	68	-	-
			3Ps	OTB	Jan	OC	2	200
	4R	OTB	Feb	OC	5	67	-	-
			4Vn	OTB	Jan	OC	3	189
	Feb	OC	7	397	-	-		
PLA	3Pn	OTB	Apr	OC	1	3	-	-
			3Ps	OTB	Feb	OC	1	33
	Mar	OC	1	230	-	-		
	4Vn	OTB	Feb	OC	1	6	-	-
			Apr	OC	1	140	-	-
WIT	3Pn	OTB	Apr	OC	1	3	-	-
			3Ps	OTB	Apr	OC	1	52

JAPAN - SCIENTIFIC OBSERVER PROGRAM - CANADA (M)

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
COD	4Vn	OTB	Apr	OC	1	154	-	24
			Dec	OC	1	210	-	-
			4Vs	OTB	Mar	OC	1	6
			Apr	OC	4	41	-	20
			Nov	OC	1	23	-	-
			HAD	30	OTB	Nov	OC	1
Dec	OC	2	135			-	-	
	4W	OTB	Sep	OC	1	92	-	-
			RED	30	OTB	Nov	OC	3
Dec	OC	9	2031			-	-	
	4Vn	OTB	Apr	OC	1	205	-	-
			Nov	OC	2	439	-	-
			Dec	OC	6	1322	-	-
	4Vs	OTB	Mar	OC	1	189	-	-
			Apr	OC	26	5191	-	39
Nov	OC	28	6070	-	-			
Dec	OC	15	2994	-	-			

Japan

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
RED	4W	OTB	Apr	OC	2	425	-	-
			Nov	OC	1	239	-	-
HKS	30	OTB	Dec	OC	2	379	-	-
			Apr	OC	6	1281	-	24
	4W	OTB	Apr	OC	3	597	-	-
			Aug	OC	2	381	-	-
			Sep	OC	3	548	-	-
4X	OTB	Sep	OC	1	205	-	23	
POL	4Vs	OTB	Apr	OC	1	2	-	-
			Nov	OC	2	62	-	-
			Dec	OC	2	99	-	-
PLA	4W	OTB	Sep	OC	1	164	-	-
WIT	30	OTB	Dec	OC	2	315	-	-
			Apr	OC	1	177	-	-
	4Vs	OTB	Dec	OC	2	190	-	-
			Apr	OC	1	114	-	-
			Sep	OC	1	46	-	-
YEL	4W	OTB	Sep	OC	1	32	-	-
GHL	4Vn	OTB	Dec	OC	2	78	-	-
HKW	30	OTB	Nov	OC	1	28	-	-
			Apr	OC	1	88	-	-
	4Vs	OTB	Apr	OC	8	193	-	-
			Nov	OC	4	213	-	-
ARG	30	OTB	Dec	OC	2	196	-	-
			Nov	OC	1	14	-	-
			Mar	OC	1	144	-	-
			Apr	OC	8	1073	-	-
	4X	OTB	Nov	OC	4	604	-	-
			Dec	OC	3	370	-	-
			Sep	OC	1	140	-	-
SQI	4Vs	OTB	Nov	OC	1	19	-	-
			Aug	OC	1	164	-	-
	4W	OTB	Sep	OC	2	286	-	-
	4X	OTB	Sep	OC	1	154	-	-

PORTUGAL - SCIENTIFIC OBSERVER PROGRAM - CANADA (M)

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
COD	4Vs	OTB	Dec	OC	59	10376	-	-
HAD	4Vs	OTB	Dec	OC	20	2441	-	-
	4W	OTB	May	OC	5	521	-	87
RED	4Vs	OTB	Dec	OC	13	1578	-	-
	4W	OTB	Apr	OC	2	445	-	-
			May	OC	10	1393	-	-
HKS	4Vs	OTB	Dec	OC	2	192	-	-
	4W	OTB	Apr	OC	11	2133	-	26
May			OC	43	8914	-	53	
HKR	4W	OTB	Apr	OC	1	191	-	-
			May	OC	4	527	-	-
POL	4Vs	OTB	Dec	OC	13	833	-	-
	4W	OTB	May	OC	3	78	-	30
PLA	4Vs	OTB	Dec	OC	5	606	-	-
	4W	OTB	May	OC	2	87	-	-
WIT	4Vs	OTB	Dec	OC	15	2724	-	-
	4W	OTB	Apr	OC	1	65	-	-
			May	OC	1	10	-	-
YEL	4Vs	OTB	Dec	OC	7	1076	-	-
CUSK	4W	OTB	May	OC	2	83	-	-
HKW	4Vs	OTB	Dec	OC	1	75	-	-
	4W	OTB	May	OC	1	38	-	-
SHA	4W	OTB	May	OC	1	82	-	-
ARG	4W	OTB	Apr	OC	2	405	-	-
			May	OC	1	155	-	-
SQI	4W	OTB	May	OC	12	342	-	-

USSR - SCIENTIFIC OBSERVER PROGRAM - CANADA (M)

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
COD	4W	OTB	May	OC	11	62	-	10
			Jun	OC	6	33	-	11
HAD	4W	OTB	May	OC	53	4558	-	82
			Jun	OC	77	10755	-	118
			Jul	OC	52	6933	-	23
			Aug	OC	16	2863	-	-

USSR

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
RED	4W	OTB	May	OC	29	3581	-	29
			Jun	OC	11	2449	-	47
			Jul	OC	3	879	-	-
			Aug	OC	1	127	-	-
HKS	4W	OTB	May	OC	185	44230	-	249
			Jun	OC	280	67361	-	494
			Jul	OC	173	42568	-	428
			Aug	OC	52	12473	-	55
	4X	OTB	Jul	OC	2	573	-	65
HKR	4W	OTB	May	OC	8	747	-	-
			Jun	OC	15	1746	-	-
			Jul	OC	3	342	-	-
POL	4W	OTB	May	OC	30	1811	-	76
			Jun	OC	13	1051	-	20
			Jul	OC	5	173	-	28
PLA	4W	OTB	May	OC	5	441	-	-
			Jun	OC	12	1003	-	-
WIT	4W	OTB	May	OC	3	193	-	-
			Jun	OC	8	221	-	-
YEL	4W	OTB	May	OC	2	126	-	-
			Jun	OC	5	317	-	-
HAL	4W	OTB	May	OC	2	5	-	-
			Jun	OC	1	1	-	-
FLW	4W	OTB	Jun	OC	1	4	-	-
CUSK	4W	OTB	May	OC	3	33	-	-
			Jun	OC	2	17	-	-
HKW	4W	OTB	May	OC	5	283	-	27
			Jun	OC	4	171	-	-
			Jul	OC	1	14	-	-
HER	4W	OTB	May	OC	2	195	-	-
			Jun	OC	1	194	-	-
MAC	4W	OTB	May	OC	16	3069	-	-
			Jun	OC	24	4379	-	-
			Jul	OC	8	1239	-	-
			Aug	OC	5	1007	-	-
SHA	4W	OTB	May	OC	3	62	-	-
ARG	4W	OTB	May	OC	13	1698	-	23
			Jun	OC	3	542	-	-
			Jul	OC	3	436	-	-
	4X	OTB	Jul	OC	2	478	-	-
SQI	4W	OTB	May	OC	24	1344	-	-
			Jun	OC	41	7004	-	-
			Jul	OC	47	8938	-	-
			Aug	OC	6	1236	-	-

CANADA (M) - SCIENTIFIC OBSERVER PROGRAM - CANADA (N)

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
COD	2H	OTB	Nov	OL	-	66	-	66
	3K	OTB	Mar	OL	2	501	-	24
	3Ps	OTB	Feb	OL	-	46	-	46
REB	2H	OTB	Aug	OL	3	341/445	-	-
			Sep	OL	1	99/187		
	3K	OTB	Mar	OL	5	462/763	-	-
	3Pn	OTB	Jan	OL	3	240/399	-	-
			Jul	OL	3	423/422		
			Aug	OL	1	81/70		
			Sep	OL	4	382/474		
		OTM	Jan	OL	4	390/533	-	-
	3Ps	OTB	Jul	OL	2	213/249	-	-
			Aug	OL	1	157/146		
			Sep	OL	2	239/202		
	OTM	Jan	OL	1	86/133	-	-	

CANADA (N) - SCIENTIFIC OBSERVER PROGRAM - CANADA (N)

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples			
					No.	No. meas.	No.	No. aged		
Cod	2J	OTB	Apr	OL	1	310	-	-		
			Dec	OL	1	184	-	-		
3K	OTB		Mar	OL	26	6916	-	92		
			Apr	OL	18	5030				
			May	OL	34	9495				
			Jun	OL	1	301				
			Nov	OL	1	275				
			Dec	OL	6	1249				
			3L	OTB		Feb			OL	3
Apr	OL	3	810			-	16			
Nov	OL	8	2146			-	-			
Dec	OL	7	1515							
30	GN		Apr					OL	2	540
May			OL			53	13699			
Jun			OL			10	2564			
Nov			OL	1	300					
3Pn	OTB		Feb	OL	3	597	-	151		
			Mar	OL	5	737				
			Apr	OL	2	96				
3Ps	OTB		Mar	OL	4	883	-	-		
			Apr	OL	2	506				
4Vn	OTB		Mar	OL	6	1250	-	-		
			Apr	OL	3	577				
4Vs	OTB		Jan	OL	6	1699	-	-		
			Feb	OL	10	2603				
			Mar	OL	9	2232				
			Apr	OL	5	1185				
			Jul	OL	3	694	-	-		

Canada (N)

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
HAD	30	OTB	Mar	OL	7	1541	-	-
REB	2J	OTB	Oct	OL	2	401/438	-	-
			3K	OTB	Jan	OL	3	333/499
	Feb	OL			2	275/254		
	Mar	OL			1	54/154		
	Jun	OL			3	488/371		
	Oct	OL			3	775/615		
	Nov	OL			21	4354/4359		
	Dec	OL			8	1692/1698		
	3Pn	OTB	Jul	OL	1	252/223	}	-
			Aug	OL	3	480/480		
	4Vn	OTB	Aug	OL	3	649/389	-	-
3L								
	Nov	OL	2	113/437				
	Dec	OL	5	202/1247				
3N	OTB	Nov	OL	1	92/168	-	-	
								3Ps
WIT	30	OTB	Mar	OL	13	1683/1716	-	
								YEL
Nov	OL	1	148/142					
GHL	2J	OTB	Oct	OL	1	104/153	-	25/40
			GN	OTB	Aug	OL	15	1859/2068
	Sep	OL			15	1769/2179		
	Oct	OL			18	1946/2749		
	Nov	OL			22	2474/3374		
	3K	OTB	Dec	OL	5	731/547	-	69/72

FRANCE (M) - SCIENTIFIC OBSERVER PROGRAM - CANADA (N)

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
COD	2J	OTB	Oct	OL	1	262	-	-
	3L	OTB	Oct	OL	1	273	-	-

FRANCE (SP) - SCIENTIFIC OBSERVER PROGRAM - CANADA (N)

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
COD	3K	OTB	Apr	OL	3	886	-	-
	3Ps	OTB	Feb	OL	1	28	-	28

FAROE - SCIENTIFIC OBSERVER PROGRAM - CANADA (N)

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
COD	2H	LL	Jul	OL	3	785	-	56
			Aug	OL	4	759		
	3M	LL	Aug	OL	10	2171	-	38

FED. REP. GERMANY - SCIENTIFIC OBSERVER PROGRAM - CANADA (N)

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
COD	3K	OTB	Jan	OL	48	12566	-	434
	3L	OTB	Mar	OL	11	1090	-	132
			Apr	OL	5	1146	-	48

GERMAN DEM. REP. - SCIENTIFIC OBSERVER PROGRAM - CANADA (N)

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
COD	2H	OTB	Dec	OL	1	259	-	41
	3L	OTB	Dec	OL	1	259	-	47
REB	3K	OTB	Dec	OL	2	439/366	-	-
	3L	OTB	Dec	OL	7	1270/1728	-	-
GHL	0B	OTB	Nov	OL	-	58/81	-	58/81
	2H	OTB	Nov	OL	-	59/83	-	59/83
	2J	OTB	Jul	OL	5	650/655	-	-
			Aug	OL	21	2677/2922		
	3K	OTB	Jul	OL	4	390/596	-	24/38
			Aug	OL	1	66/119		
			Oct	OL	2	188/329		114/213

JAPAN - SCIENTIFIC OBSERVER PROGRAM - CANADA (N)

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
REB	3K	OTB	Aug	OL	2	255/596	-	-
			Sep	OL	8	1298/1659		
			Oct	OL	12	2567/2766		
			Nov	OL	5	1097/994		
	30	OTB	Aug	OL	3	403/571	-	-
			Oct	OL	5	912/1371		
			Dec	OL	4	428/1274		
	4Vs	OTB	Dec	OL	1	121/160	-	-
GHL	2J	OTB	Oct	OL	1	125/183	-	1/8
	3K	OTB	Oct	OL	6	838/949	-	-
Dec			OL	1	131/122			

NORWAY - SCIENTIFIC OBSERVER PROGRAM - CANADA (N)

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
COD	2H	LL	Nov	OL	33	8145	-	265

POLAND - SCIENTIFIC OBSERVER PROGRAM - CANADA (N)

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
REB	3K	OTB	Nov	OL	3	576/646	-	-
WIT	3K	OTB	Apr	OL	4	1219/1045	-	-
			May	OL	5	601/1178		
GHL	2H	OTB	Oct	OL	3	163/72	-	77/26
			Nov	OL	1	36/43		
	2J	OTB	Jul	OL	4	659/677	-	-
	3K	OTB	Jan	OL	4	445/450	-	36/39
			Apr	OL	3	575/818	-	-
			May	OL	3	604/828	-	-
			Jul	OL	3	541/573	-	-

PORTUGAL - SCIENTIFIC OBSERVER PROGRAM - CANADA (N)

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
COD	3K	OTB	May	OL	38	9219	-	409
			Jun	OL	9	2080		
	3L	GN	Jun	OL	30	7932	-	245
			Jul	OL	25	8553		
			Aug	OL	22	5535		
			Oct	OL	28	7241		
	3M	GN	Apr	OL	7	2251	-	164
			May	OL	6	1701		
			Jul	OL	1	260		
	3N	GN	Jun	OL	5	1373	-	222
			Jul	OL	1	261		
	3O	GN	May	OL	2	520	-	194
			Jun	OL	4	951		
			Aug	OL	1	231		
HKW	3O	GN	May	OL	6	1357	-	-
			Jun	OL	25	6454		
			Jul	OL	9	2204		
			Aug	OL	12	3049		
			Sep	OL	2	428		
			Oct	OL	1	289		
	Nov	OL	8	1817				

USSR - SCIENTIFIC OBSERVER PROGRAM - CANADA (N)

Species	NAFO Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
COD	3N	OTB	Feb	OL	1	102	-	55
REB	3K	OTB	Aug	OL	19	3851/3714	-	-
	3N	OTB	Feb	OL	10	1339/863 } 711/443 }	-	-
			Mar	OL	5		-	-
	3O	OTB	Dec	OL	1	92/87	-	-