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Provisional Lists of Sampling Data for 1976

by

Assistant Executive Secretary

The inclusion of detailed sampling data in Sampling Yearbook was discontinued after the publication of Vol. 17 for 1972. Vol. 18-20 for the years 1973-75 (the last issued in December 1977) contained lists of sampling data on file in the Secretariat and available to users upon request. The appended tables contain provisional lists of 1976 sampling data available at the Secretariat.

Part I of this report contains lists of sampling data relevant to commercial fisheries in 1976, arranged by species in Tables 1 to 27. The format of these tables is the same as in Sampling Yearbook, Vol. 20 for 1975, and the abbreviations for gears generally conform with those adopted by STACRES for use in the Statistical Bulletin. Where sampling data have been reported by sex, the entries under "Number measured" and "Number aged" indicate the numbers of males and females. Entries under "Age samples" indicate the availability of quarterly age-length keys which pertain to the monthly length composition data.

Part II of this report contains a list of sampling data relevant to research vessel surveys in 1976 (Table 28). These data pertain to catches with non-commercial gears (e.g. small-meshed research trawls) and are usually not associated with commercial fishing operations.

Sampling data for 1976 have been computerized to provide for rapid retrieval of data on computer printouts to meet specific requests. Copies of all available length frequency data and age-length keys will be forwarded upon request to institutions and/or individual scientists involved in the Commission's work. All requests should specify the actual data required, indicating at least the species, country and division.

This advance release of 1976 sampling data lists should be carefully checked by national scientists against data available in their files, and the Secretariat promptly informed of any errors or omissions. Also, any additional data for 1976, not yet reported, should be forwarded to the Secretariat as soon as possible, so that *Sampling Yearbook*, Vol. 21 (to be issued later in the year) will contain a complete listing of all available data for 1976, especially data pertaining to commercial fisheries. Some notable omissions from this list for 1976 to data are as follows:

- |                  |  |
|------------------|--|
| Canada (M)       | - redfish, American plaice, witch flounder, yellowtail, winter flounder, mackerel, squid |
| Canada (N)       | - herring for 1975 and 1976, squid, cod (2J, 3K, 3Pn, 4R)                                |
| France           | - No commercial data   |
| German Dem. Rep. | - Commercial cod and redfish data  |
| Norway           | - No commercial data (capelin)   |
| Spain            | - No commercial data (cod, squid)  |

In addition to the complete absence of data for the above-mentioned species, much of the sampling data included in Tables 1-27 are incomplete due to the absence of relevant age-length keys.

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PART I. SAMPLING DATA PERTAINING TO COMMERCIAL FISHERIES, 1976

The following summary of sampling data available at the Secretariat is a listing by country, species and division of samples tabulated by species in Tables 1 to 27. Nearly all of these data were reported as commercial samples, as indicated by the abbreviations "CL" (Commercial landings) or "CC" (Commercial catches) in the Tables under "Type of sample". However, a few samples, labelled as "RC" (Research catches), have been included, where the type of gear used or the gear size reported indicated that they were relevant to commercial fishing operations. Sampling data pertaining to pure research vessel operations (survey data not connected with commercial fishing) are listed in Part II of this report. The procedure followed in preparing this 1976 list of sampling data is essentially the same as that for 1975 (*Sampling Yearbook*, Vol. 20). The abbreviations used for gears may be found in a recent issue of the ICNAF Statistical Bulletin and in the last issue of *Sampling Yearbook*.

Country	Species	Divisions
Bulgaria	Silver hake	4W
	Atlantic mackerel	5Zw, 6A, 6B, 6C
	Capelin	30
Canada (M)	Atlantic cod	4R, 4S, 4T, 4Vn, 4Vs, 4W, 4X, 5Ze
	Haddock	4W, 4X, 5Ze
	Pollock	4Vs, 4W, 4X, 5Ze
	Atlantic herring	4Vn, 4W, 4X
Canada (N)	Atlantic cod	3L, 3O, 3Ps
	Atlantic redfish	2J, 3K, 3L, 3M, 3N, 3O, 3Pn, 3Ps, 4R, 4S, 4Vn
	American plaice	2J, 3K, 3L, 3N, 3O, 3Ps, 4T, 4Vs
	Witch flounder	2J, 3K, 3L, 3N, 3O, 3Ps, 4R, 4T
	Yellowtail flounder	3L, 3N, 3O
	Greenland halibut	2J, 3K, 3L
	Atlantic mackerel	3K, 3L, 4R
Capelin	2J, 3K, 3L, 3N, 3Ps, 4T	
Cuba	Atlantic mackerel	5Ze
	Atlantic argentine	4W
	Squid - <i>Illex</i>	4W
Denmark (G)	Atlantic cod	1C, 1D, 1E, E. Greenland
	Atlantic redfish	1D, 1E
	American plaice	1D
	Striped wolffish	1C
France (SP)	Atlantic herring	4R, 4Vn, 4Vs, 4W
	Squid - <i>Illex</i>	3Ps
Fed. Rep. Germany	Atlantic cod	2J, 3K
	Atlantic herring	5Ze
German Dem. Rep.	Greenland halibut	1C
	Roundnose grenadier	1C, 2H, 3K, 3L
	Atlantic herring	5Ze
	Atlantic mackerel	5Ze, 6A, 6B
Japan	Atlantic herring	4X
	Atlantic butterfish	5Ze, 5Zw, 6A, 6B
	Capelin	3N, 3O
	Squid - <i>Illex</i>	4V, 4W, 5Ze, 6A, 6B
	Squid - <i>Loligo</i>	5Ze, 5Zw, 6A, 6B

(Continued overleaf)

Country	Species	Divisions
Poland	Atlantic cod	3K, 3L
	Atlantic redfish	2J, 3K, 3L
	Witch flounder	3K
	Greenland halibut	3K
	Atlantic herring	5Ze, 6B
	Atlantic mackerel	5Ze, 5Zw, 6A, 6B, 6C
	Squid - <i>Illex</i>	5Ze, 5Z, 6A
	Squid - <i>Loligo</i>	5Z, 6A
Portugal	Atlantic cod	3L, 3M
Romania	Silver hake	6A
	Red hake	6A
	Atlantic mackerel	5Ze, 5Zw, 6A
	Atlantic menhaden	6B
USSR	Atlantic cod	2J, 3K, 3L, 3N
	Haddock	4W
	Atlantic redfish	2J, 3K, 3L, 3M, 3O, 4W
	Silver hake	4W, 4X, 5Ze, 5Zw+6
	Red hake	5Ze
	Greenland halibut	2G
	Roundnose grenadier	0, 1C, 2G
	Scup	6
	Atlantic herring	4W, 5Ze
	Atlantic mackerel	4VWX, 5, 6
	Alewife	4X, 5Ze, 5Zw, 6
	Atlantic argentine	4W, 4X
	Atlantic butterfish	5Ze
	Squid - <i>Illex</i>	4W, 4VWX, 5Ze
Squid - <i>Loligo</i>	5	
USA	Atlantic cod	5Ze
	Haddock	4X, 5Y, 5Ze
	Atlantic redfish	4W, 4X, 5Y, 5Ze
	Silver hake	5Y, 5Ze, 5Zw, 6
	Red hake	5Zw, 6A
	Pollock	5Y, 5Ze
	American plaice	5Y, 5Ze
	Witch flounder	5Y, 5Ze
	Yellowtail flounder	5Z(E69°), 5Z(W69°)
	Winter flounder	5Y, 5Ze, 5Zw, 6
	Summer flounder	5Ze, 5Zw, 6
	Windowpane flounder	5Ze
	Atlantic herring	5Y(north), 5Y(south), 5Z+6
	Atlantic mackerel	5Y
	Atlantic butterfish	5Zw, 6A
	Squid - <i>Illex</i>	5Y, 5Ze
	Squid - <i>Loligo</i>	5Zw, 6A
	Squids (NS)	6A
	Sea scallop	5Y, 5Ze, 6

Table 1. Atlantic cod length and age sampling data for 1976.

Country	ICNAF Div.	Gear	Month	Type of sample	Length samples		Age samples						
					No.	No. meas.	No.	No. aged					
Canada (M)	4R	OTB	Apr	CL	1	356	}	6	298				
			May	CL	3	952							
			Jun	CL	2	400							
			Jul	CL	1	320							
			Oct	CL	1	381							
	4S	OTB	Apr	CL	1	222	}	8	316				
			May	CL	4	800							
			Jun	CL	3	600							
			Aug	CL	1	200							
	4T	SN	Jun	CL	1	200	}	1	36				
			OTB	Jan	CL	1				346	}	13	568
				Apr	CL	1				287			
		May		CL	8	2129							
		Jun		CL	4	800							
		Oct		CL	1	78							
		SN	May	CL	2	400	}	5	185				
			Jun	CL	3	600							
			Jul	CL	7	1451							
			Aug	CL	8	1617							
			Sep	CL	3	600							
		GN	Jul	CL	4	732	}	7	281				
			Aug	CL	3	480							
			LL	Aug	CL	1				200	}	1	33
		LHP		Jun	CL	2	400	}	2	95			
	Jul			CL	4	788							
	Aug		CL	4	800								
	4Vn	OTB	Jan	CL	9	2937	}	16	741				
			Feb	CL	3	1042							
			Mar	CL	4	1286							
			Apr	CL	1	268							
			Dec	CL	3	785							
			GN	Jul	CL	1				200	}	1	43
	4Vs	OTB	Feb	CL	1	292	}	2	102				
Mar			CL	1	356								
4W	LL	Mar	CL	1	234	}	1	60					
		Jun	CL	1	230								
		Jul	CL	1	300								
		Oct	CL	1	251								
4X	OTB	Jan	CL	1	395	}	1	61					
		May	CL	1	271								
		Aug	CL	3	546								
		Oct	CL	1	258								
	GN	Aug	CL	1	95	}	1	38					
		LL	Nov	CL	1				282	}	2	124	
			Dec	CL	1				257				
		5Ze	OTB	Jul	CL				1	222	}	2	101
Aug	CL			1	239								
LL	Jun		CL	1	69								
Canada (N)	3L	OTB	Jun	CL	3	1016	}	3	425				
			Oct	CL	1	183							
			Nov	CL	1	515							
	GN	Jun	CL	2	576	}	38	1374 <sup>1</sup>					
		Jul	CL	14	3399								

Table 1. Atlantic cod (continued)

Country	ICNAF Div.	Gear	Month	Type of sample	Length samples		Age samples		
					No.	No. meas.	No.	No. aged	
Canada (N) (cont'd)	3L	LHP	Jul	CL	2	747	38	1374 <sup>1</sup>	
		FPN	Jun	CL	5	1784			
	30	OTB	Jul	CL	15	7366	38	1374 <sup>1</sup>	
			May	CL	2	465			
			Jun	CL	1	504			
	3Ps	OTB	Sep	CL	1	392	1	43	
			Jun	CL	2	926	2	167	
			Aug	CL	2	1243	2	197	
		LL	OTB	Nov	CL	2	952	2	234
				Sep	CL	7	3318	7	468
		GN	OTB	Jun	CL	7	2337	20	529 <sup>2</sup>
				Jul	CL	2	744		
	FPN	OTB	Jun	CL	10	2603	20	529 <sup>2</sup>	
Jul			CL	1	361				
Denmark (G)	1C <sup>3</sup>	OTB	Jan	CL	1	960	1	362	
			Mar	CL	1	1307			
	1D	OTB	Mar <sup>4</sup>	CL	1	1057	1	345	
			Jun <sup>5</sup>	CL	2	1997	1	497 <sup>6</sup>	
			Sep	CL	1	912	1	182	
			Dec	CL	1	967	1	218	
			May	CL	2	206	1	497 <sup>6</sup>	
	FPN	OTB	Jun	CC	2	1290	3	634	
			Jul	CL	1	1127	1	219	
	1E	OTB	Aug	CL	4	2603	2	673	
			Oct	CL	1	1271	1	225	
	EG <sup>7</sup>	OTB	Jun	CL	1	1051	1	479	
	Fed. Rep. Germany	2J	OTB	Feb	CC	8	3432	4	949 <sup>8</sup>
3K		OTB	Feb	CC	4	2814	4	949 <sup>8</sup>	
Poland	3K	OTB	Feb	CC	5	7706	5	720	
			Apr	CC	4	1408	-	-	
	3L	OTB	Mar	CC	1	627	1	100	
Portugal	3L	OTB	Sep	CC	2	279	-	-	
	3M	OTB	Aug	CC	3	310	-	-	
			Sep	CC	18	2148			
Oct	CC	2	220	-	-				
USSR	2J	OTB	Jan	CC	32	9320	1	305	
			Feb	CC	6	2226			
	3K	OTB	Feb	CC	34	12795	1	309	
	3L	OTB	Mar	CC	5	4640	-	-	
3N	OTB	Apr	CC	8	4327	-	-		
USA	5Ze	OTB	Jan	CL	4	361	-	-	
			Feb	CL	4	419			
			Mar	CL	3	319			
			Apr	CL	5	673			
			May	CL	7	925			
			Jun	CL	4	551			
			Jul	CL	3	405			
			Sep	CL	2	207			
3	CL	3	370						

Table 1. Atlantic cod (continued)

Country	ICNAF Div.	Gear	Month	Type of sample	Length samples		Age samples		
					No.	No. meas.	No.	No. aged	
USA (cont'd)	5Ze	OTB	Oct	CL	4	736	}	-	-
			Nov	CL	4	472			
			Dec	CL	1	105			

<sup>1</sup> Same age-length key used for GN, LHP and FPN in Div. 3L.

<sup>2</sup> Same age-length key used for CN and FPN in Div. 3Ps.

<sup>3</sup> Reported from Div. 1C+1D.

<sup>4</sup> Reported from Div. 1C+1D+1E.

<sup>5</sup> Reported from Div. 1D+1E.

<sup>6</sup> Same age-length key used for OTB and GN in Div. 1D.

<sup>7</sup> East Greenland.

<sup>8</sup> Same age-length key used for 2J and 3K.

Table 2. Haddock length and age sampling data for 1976.

Country	ICNAF Div.	Gear	Month	Type of sample	Length samples		Age samples				
					No.	No. meas.	No.	No. aged			
Canada (M)	4W	OTB	May	CL	1	450	}	1	35		
			Aug	CL	1	200		1	38		
			Dec	CL	1	200		1	33		
		LL	Mar	CL	1	166		1	25		
			Aug	CL	1	181		1	33		
			Oct	CL	1	131		1	31		
		4X	OTB	Jan	CL	2		633	}	13	503
				Feb	CL	2		486			
				Mar	CL	9		2074			
	Apr			CL	1	248					
	May			CL	4	1190					
	Jun			CL	4	1079	9	319			
	Jul			CL	3	679					
	Aug			CL	4	847					
	Sep			CL	2	515	9	297			
	Oct			CL	3	641					
	Nov			CL	2	406					
	Dec	CL	1	184	6	185					
	GN	Aug	CL	1			79	1	20		
		Oct	CL	1	170	1	24				
	LL			Jan	CL	1	219	}	1	39	
				May	CL	1	239				
				Jun	CL	1	210				2
Aug				CL	1	186					
Oct				CL	1	190					
LHP	Aug	CL	1	190	1	38					
5Ze	OTB	Jun	CL	4	927	}	4	147			
		Aug	CL	1	226						
		Sep	CL	2	391				3	110	
		Oct	CL	1	205						
		Nov	CL	1	220						
		USSR	4W	OTB	Apr				CC	2	400
May	CC				1	200					

Table 2. Haddock (continued)

Country	ICNAF Div.	Gear	Month	Type of sample	Length samples		Age samples		
					No.	No. meas.	No.	No. aged	
USA	4X	OTB	Mar	CL	5	381	}	5	90
			Apr	CL	1	71		3	51
			Jun	CL	2	139		1	27
			Nov	CL	1	106			
	5Y	OTB	Mar	CL	1	30	}	1	19
			Sep	CL	1	74		1	21
			Oct	CL	1	55		1	35
			Nov	CL	1	53			
	5Ze	OTB	Jan	CL	4	294	}	13	275
			Feb	CL	6	460			
			Mar	CL	3	211			
			Apr	CL	6	435			
			May	CL	7	665		15	283
			Jun	CL	2	114			
			Aug	CL	1	52		3	76
			Sep	CL	2	155			
			Oct	CL	1	103			

Table 3. Atlantic redfish length and age sampling data for 1976.

Country	ICNAF Div.	Gear	Month	Type of sample	Length samples		Age samples		
					No.	No. meas.	No.	No. aged	
Canada (N)	2J	OTB	Oct	CL	1	845/926	}	-	-
			Nov	CL	1	165/165		-	-
	3K	OTB	Aug	CL	4	414/680	}	-	-
			Sep	CL	1	191/172		-	-
	3L	OTB	Nov	CL	1	136/118	}	-	-
			Jun	CL	2	608/523		-	-
	3M	OTM	Oct	CL	3	687/663	}	-	-
			May	CL	1	122/122		-	-
			Jun	CL	3	849/930		-	-
			Jul	CL	4	667/690		-	-
			Sep	CL	2	350/448		-	-
			Oct	CL	2	609/455		-	-
	3N	OTM	May	CL	1	142/134	}	-	-
			Jun	CL	1	130/139		-	-
			Jul	CL	2	450/416		-	-
			Aug	CL	2	464/608		-	-
			Sep	CL	1	173/172		-	-
	3O	OTB	Sep	CL	1	277/353	-	-	
	3Pn	OTB	May	CL	1	516/534	}	-	-
			Jul	CL	3	595/500		-	-
3Ps	OTB	May	CL	1	77/199	}	-	-	
		Jul	CL	2	278/239		-	-	
		Mar	CL	1	128/296		-	-	
		Apr	CL	4	611/1362		-	-	
3Ps	OTM	May	CL	1	399/420	}	-	-	
		Jul	CL	3	507/450		-	-	
		Aug	CL	1	171/114		-	-	
3Ps	OTM	Mar	CL	4	538/1077	}	-	-	
		Apr	CL	1	281/157		-	-	



Table 3. Atlantic redfish (continued)

Country	ICNAF Div.	Gear	Month	Type of sample	Length samples		Age samples		
					No.	No. meas.	No.	No. aged	
Canada (N) (cont'd)	4R	OTB	Feb	CL	1	228/167	-	-	
			Apr	CL	1	95/186	-	-	
	OTM	Jan	CL	5	1385/487	}	-	-	
		Feb	CL	7	2155/705		-	-	
	4S	OTB	Nov	CL	1	135/131	-	-	
		OTM	Jan	CL	1	306/122	-	-	
	4Vn	OTM	Apr	CL	1	95/317	-	-	
Denmark (G)	1D	OTB	Aug	CC	1	403	-	-	
	1E	OTB	Aug	CC	2	761	-	-	
Poland	2J	OTB	Feb	CC	1	359/379	-	-	
	3K	OTB	Feb	CC	4	866/1467	-	-	
			Apr	CC	2	738/932	-	-	
3L	OTB	Mar	CC	5	2096/2196	-	-		
USSR	2J	OTB	Jan	RC	4	595/567	-	-	
			May	RC	7	1778/2212	1	128/172	
			Jul	RC	9	1717/1479	1	159/93	
	3K	OTB	Feb	RC	10	1728/1653	-	-	
	3L	OTB	Mar	RC	17	2430/3196	-	-	
	3M	OTB	Mar	RC	3	567/466	-	-	
			Apr	RC	5	966/811	-	-	
	3O	OTB	Apr	RC	39	4740/5650	-	-	
	4W	OTB	Mar	CC	2	526	-	-	
			May	CC	5	1015	-	-	
USA	4W	OTB	Feb	CL	1	46/54	}	-	-
			Mar	CL	1	49/51		-	-
			May	CL	1	61/39		-	-
			Sep	CL	1	58/42		-	-
	4X	OTB	Jan	CL	5	251/249	}	-	-
			Feb	CL	2	96/104		-	-
			Mar	CL	2	78/122		-	-
			Jun	CL	2	82/118		-	-
			Jul	CL	3	116/192		-	-
			Aug	CL	7	363/361		-	-
			Sep	CL	4	211/220		-	-
			Oct	CL	4	200/233		-	-
	5Y	OTB	Feb	CL	1	64/36	}	-	-
			Mar	CL	10	485/515		-	-
			Apr	CL	12	545/678		-	-
			May	CL	5	253/253		-	-
			Jun	CL	10	430/588		-	-
			Jul	CL	10	412/598		-	-
			Aug	CL	6	348/256		-	-
			Sep	CL	9	438/471		-	-
Oct			CL	4	222/172	-		-	
Nov			CL	7	369/344	-		-	
Dec	CL	4	265/119	-	-				
5Ze	OTB	Mar	CL	1	82/18	-	-		
		Dec	CL	1	56/61	-	-		

Table 4. Silver hake length and age sampling data for 1976.

Country	ICNAF Div.	Gear	Month	Type of sample	Length samples		Age samples					
					No.	No. meas.	No.	No. aged				
Bulgaria	4W	OTM	Jun	CC	1	230	-	-				
Romania	6A	OTM	Feb	CC	1	46/54	1	46/54				
USSR	4W	OTB	Feb	CC	9	1855	2	81/135				
			Mar	CC	67	13520						
			Apr	CC	136	27293	2	70/173				
			May	CC	166	33299						
			Jun	CC	176	35216	2	85/184				
			Jul	CC	129	25720						
			Aug	CC	24	4800	-	-				
			Dec	CC	28	5615	-	-				
			OTM	May	CC	2	400	-	-			
				Jun	CC	5	1000	-	-			
				Jul	CC	4	800	-	-			
			4X	OTB	Apr	CC	40	7920	13	82/210		
	May	CC			73	14610						
	Jun	CC			1	200						
	5Ze	OTB	Mar	CC	8	1671	-	-				
			Apr	CC	173	34553	13	108/182				
Aug			CC	8	1600	8	101/231					
5Zw+6	OTB	Mar	CC	41	8411	18	104/177					
	OTM	Mar	CC	4	847	-	-					
USA	5Y	OTB	Jan	CL	2	90/115	-	-				
			Feb	CL	8	365/447						
			Mar	CL	5	253/299						
			Apr	CL	2	106/114						
			Jul	CL	1	32/68						
			Aug	CL	2	122/97						
			Sep	CL	1	27/49						
			Nov	CL	2	42/147						
			5Ze	OTB	Jul	CL			5	326/272	-	-
					Aug	CL			5	226/246	-	-
	Sep	CL			4	134/244	-	-				
	Oct	CL			1	20/74	-	-				
	5Zw	OTB	Feb	CL	2	231	-	-				
			Apr	CL	2	71	-	-				
			Jul	CL	5	669	-	-				
			Aug	CL	11	1746	-	-				
			Sep	CL	7	1435	-	-				
			Oct	CL	10	1071	-	-				
			Nov	CL	6	305	-	-				
			Dec	CL	6	607	-	-				
	6	OTB	Apr	CL	5	83	-	-				
			May	CL	1	53	-	-				
			Jul	CL	2	184	-	-				
Oct			CL	4	209	-	-					
Nov			CL	2	30	-	-					
Dec			CL	4	470	-	-					

Table 5. Red hake length and age sampling data for 1976.

Country	ICNAF Div.	Gear	Month	Type of sample	Length samples		Age samples		
					No.	No. meas.	No.	No. aged	
Romania	6A	OTM	Mar	CC	1	200	-	-	
USSR	5Ze	OTB	Mar	CC	1	200	1	116	
			Apr	CC	1	200	-	-	
		OTB	Mar	RC	1	200	-	-	
			Apr	RC	13	2600	10	151	
			May	RC	17	3390			
			Sep	RC	18	3530	10	168	
			Oct	RC	4	808			
			Dec	RC	22	4401	-	-	
USA	5Zw	OTB	Jan	CL	1	454	}	-	-
			Feb	CL	2	200			
			Apr	CL	2	113	}	-	-
			Jul	CL	5	486			
			Aug	CL	11	561			
			Sep	CL	7	459			
			Oct	CL	10	699			
			Nov	CL	6	1130			
			Dec	CL	6	652	-	-	
			6A	OTB	Apr	CL	5	960	}
	May	CL			1	36			
	Jul	CL			2	105	}	-	-
	Oct	CL			4	172			
	Nov	CL			2	280			
	Dec	CL			4	338			

Table 6. Pollock length and age sampling data for 1976.

Country	ICNAF Div.	Gear	Month	Type of sample	Length samples		Age samples		
					No.	No. meas.	No.	No. aged	
Canada (M)	4Vs	OTB	Sep	CL	1	269	1	29	
	4W	OTB	Apr	CL	1	285	}	3	136
			Jun	CL	2	430			
			Jul	CL	1	200			
			Sep	CL	1	270	}	2	91
			Oct	CL	1	289			
			Nov	CL	2	549	}	5	209
			Dec	CL	1	217			
	4X	OTB	Jan	CL	1	231	}	3	127
			Feb	CL	2	364			
			Mar	CL	1	211			
			Apr	CL	2	339			
			May	CL	1	248			
			Jun	CL	4	1147			
			Jul	CL	3	598			
			Aug	CL	2	531	}	7	249
			Sep	CL	2	404			
			Oct	CL	1	207			
			Nov	CL	3	634	}	5	186
			Dec	CL	1	177			
GN			GN	Jul	CL	1	247	}	2
	Aug	CL		1	198				
5Ze	OTB	Jun	CL	2	544	2	78		
		Aug	CL	1	325	1	31		

Table 6. Pollock (continued)

Country	ICNAF Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
USA	5Y	OTB	Dec	CL	3	258	-	-
	5Ze	OTB	Feb	CL	1	76	}	-
			Mar	CL	1	83		
			Apr	CL	1	80		

Table 7. American plaice length and age sampling data for 1976.

Country	ICNAF Div.	Gear	Month	Type of sample	Length samples		Age samples							
					No.	No. meas.	No.	No. aged						
Canada (N)	2J	OTB	Oct	CL	1	680/1079	1	196/341						
	3K	OTB	Nov	CL	1	279/704	1	86/187						
			GN	Jul	CL	2	57/525	2	139/238					
	3L	OTB	Mar	CL	4	1073/1750	}	4	216/368					
			May	CL	3	752/751								
			Jun	CL	4	502/1606								
			Jul	CL	2	350/355								
			Aug	CL	2	352/447								
			Sep	CL	3	454/732								
			Oct	CL	3	253/394								
			Nov	CL	2	298/465								
			3N	OTB	Feb	CL				3	513/661	}	3	138/191
					Apr	CL				3	241/561			
	May	CL			1	301/443								
	Jun	CL			1	74/694								
	Jul	CL			2	298/306								
	Aug	CL			3	379/325								
	Sep	CL			3	399/597								
	Oct	CL			2	414/584								
	3O	OTB			Feb	CL	2	244/640	}	3	125/264			
					Mar	CL	1	61/255						
			Apr	CL	1	29/121								
			May	CL	2	434/435								
			Aug	CL	2	367/595								
	3Ps	OTB	Feb	CL	1	157/199	}	3	113/167					
			Mar	CL	2	298/426								
			Apr	CL	1	84/163								
			Jun	CL	2	212/377								
			Aug	CL	1	201/361								
			Oct	CL	1	86/122								
Nov			CL	1	152/188									
Dec			CL	2	299/513									
4T	OTB	Apr	CL	1	128/172	1	15/21							
4Vs	OTB	Jan	CL	1	320/166	1	19/26							
Denmark (G)	1D	OTB	Aug	CC	1	278	-	-						
USA	5Y	OTB	Apr	CL	2	136	}	-						
			Jun	CL	3	207								
			Sep	CL	1	79								
	5Ze	OTB	Apr	CL	3	202	}	-						
			May	CL	2	166								
			Jun	CL	2	192								
			Nov	CL	1	62								

Table 8. Witch flounder length and age sampling data for 1976.

Country	ICNAF Div.	Gear	Month	Type of sample	Length samples		Age samples		
					No.	No. meas.	No.	No. aged	
Canada (N)	2J	OTB	Oct	CL	1	93/98	1	57/68	
	3K	OTB	Sep	CL	1	230/79	2	33/33	
			Nov	CL	1	239/205		213/200	
			Dec	CL	1	117/66			
		GN		Jul	CL	6	306/851	11	155/207
				Aug	CL	5	191/814		
	3L	OTB		Aug	CL	1	140/225	3	147/133
				Sep	CL	2	663/260		
		GN		May	CL	1	16/56	3	16/57
				Jul	CL	2	95/304		71/111
				Aug	CL	1	91/124		
	3N	OTB		Mar	CL	1	346/443	2	81/100
				Apr	CL	1	179/177		19/22
				Sep	CL	1	225/231		38/44
				Oct	CL	1	240/268		103/81
				Nov	CL	1	163/170		
	3O	OTB		Feb	CL	2	631/667	3	206/234
				Mar	CL	1	159/201		
				Apr	CL	1	113/160		
Jun				CL	1	150/400	2	51/78	
Oct				CL	1	79/169			
Nov				CL	2	356/297			
3Ps	OTB	Jun	CL	1	663/491	1	170/173		
4R	OTB	Feb	CL	3	825/1062	3	239/299		
4T	OTB	Apr	CL	1	193/239	1	14/24		
Poland	3K	OTB	Feb	CC	2	647/817	2	107/112	
			Apr	CC	3	1324/1793	3	113/171	
USA	5Y	OTB	Apr	CL	1	65	-	-	
			May	CL	1	57			
			Jun	CL	1	58			
			Jul	CL	2	124			
			Aug	CL	2	110			
			Sep	CL	1	60			
	5Ze	OTB		Mar	CL	4	131	-	-
				Apr	CL	2	160		

Table 9. Yellowtail flounder length and age sampling data for 1976.

Country	ICNAF Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
Canada (N)	3L	OTB	Mar	CL	1	232/177	8	293/367 <sup>1</sup>
			Aug	CL	1	245/212	5	245/315 <sup>2</sup>
			Oct	CL	1	159/82	5	118/141 <sup>3</sup>
	3N	OTB	Mar	CL	4	1095/1118	8	293/367 <sup>1</sup>
			May	CL	4	1271/1121	5	210/260 <sup>4</sup>
			Aug	CL	1	244/265	5	245/315 <sup>2</sup>
			Sep	CL	3	749/1157		
			Oct	CL	1	262/174		
			Nov	CL	2	272/438	5	118/141 <sup>3</sup>

Table 9. Yellowtail flounder (continued)

Country	ICNAF Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
Canada (N) (cont'd)	30	OTB	Mar	CL	3	1010/666	8	293/367 <sup>1</sup>
			May	CL	1	206/134	5	210/260 <sup>4</sup>
			Oct	CL	1	172/221	5	118/141 <sup>3</sup>
USA	5Z(E69°)	OTB	Jan	CL	6	303/468	22	495/497
			Feb	CL	3	167/178		
			Mar	CL	2	156/98		
			Apr	CL	5	430/323	16	341/382
			May	CL	4	278/143		
			Jun	CL	12	909/652		
			Jul	CL	9	489/773	27	560/679
			Aug	CL	9	350/772		
			Sep	CL	6	221/379		
			Oct	CL	3	232/160	24	575/600
			Nov	CL	8	359/538		
			Dec	CL	1	14/93		
	5Z(W69°)	OTB	Jan	CL	3	190/197	23	354/385
			Feb	CL	4	304/247		
			Mar	CL	4	215/233		
			Apr	CL	4	303/185	8	154/155
			May	CL	1	57/41		
			Jul	CL	1	64/85		
			Aug	CL	1	114/78	21	444/450
			Sep	CL	1	43/61		
			Oct	CL	1	35/68		
			Nov	CL	1	57/59	18	442/460
			Dec	CL	1	18/69		

- <sup>1</sup> Same age-length key used for 3L, 3N and 30.  
<sup>2</sup> Same age-length key used for 3L and 3N.  
<sup>3</sup> Same age-length key used for 3L, 3N and 30.  
<sup>4</sup> Same age-length key used for 3N and 30.

Table 10. Greenland halibut length and age sampling data for 1976.

Country	ICNAF Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
Canada (N)	2J	OTB	Oct	CL	1	642/935	1	328/464
			3K	OTB	Nov	CL	1	483/512
	3L	GN	Jul	CL	4	310/519	7	237/280
			Aug	CL	3	226/342		
		GN	May	CL	2	358/441	2	101/94
			Jun	CL	2	330/389	6	99/181
	Jul		CL	1	126/253			
	German Dem. Rep.	1C	OTB	Nov	CC	1	182	-
Dec				CC	3	756	-	-
Poland	3K	OTB	Mar	CC	2	1181/1408	-	-
			Apr	CC	4	2240/2902	-	-
USSR	2G	OTB	Aug	RC	18	1041/1403	-	-
			Sep	RC	31	1107/1351		

Table 11. Winter flounder length and age sampling data for 1976.

Country	ICNAF Div.	Gear	Month	Type of sample	Length samples		Age samples		
					No.	No. meas	No.	No. aged	
USA	5Y	OTB	Mar	CL	2	231	-	-	
			Dec	CL	1	127	-	-	
	5Ze	OTB	Jan	CL	5	315	}	-	-
			Feb	CL	1	26			
			Mar	CL	5	334			
			Apr	CL	6	375			
			May	CL	6	371			
			Jul	CL	9	640			
			Aug	CL	8	442			
			Sep	CL	10	637			
			Nov	CL	8	507			
			5Zw	OTB	Aug	CL			
	6	OTB	Mar	CL	1	149	}	-	-
			Apr	CL	2	193			
			May	CL	1	57			
			Jul	CL	1	143			
			Aug	CL	1	74			
			Oct	CL	1	117			
			Nov	CL	1	150			

Table 12. Summer flounder length and age sampling data for 1976.

Country	ICNAF Div.	Gear	Month	Type of sample	Length samples		Age samples		
					No.	No. meas.	No.	No. aged	
USA	5Ze	OTB	Apr	CL	4	290	-	-	
			Oct	CL	2	151	-	-	
	5Zw	OTB	Jan	CL	7	603	}	-	-
			Mar	CL	4	259			
			Apr	CL	2	123			
			May	CL	5	487			
			Jun	CL	9	668			
			Jul	CL	4	351			
			Aug	CL	1	61			
			Sep	CL	4	204			
			Nov	CL	3	211			
	6	OTB	Jan	CL	4	348	}	-	-
			Feb	CL	14	1383			
			Mar	CL	4	399			
			Sep	CL	4	307			
			Oct	CL	4	233			

Table 13. Windowpane flounder length and age sampling data for 1976.

Country	ICNAF Div.	Gear	Month	Type of sample	Length samples		Age samples		
					No.	No. meas.	No.	No. aged	
USA	5Ze	OTB	Jan	CL	4	85/461	}	-	-
			Feb	CL	4	27/458			
			Mar	CL	4	20/454			
			Apr	CL	2	14/242			
			May	CL	1	56/80			
			Jul	CL	1	-/131			
			Aug	CL	1	-/135			
			Nov	CL	4	36/405			

Table 14. Roundnose grenadier length and age sampling data for 1976.

Country	ICNAF Div.	Gear	Month	Type of sample	Length samples		Age samples		
					No.	No. meas.	No.	No. aged	
German Dem. Rep.	1C	OTB	Nov	CC	1	203/107	1	101/53	
	2H	OTB	Oct	CC	1	77/73	1	42/45	
	3K	OTB	Feb	RC	4	457/344	2	172/123	
	3L	OTB	Feb	RC	1	170/130	1	55/51	
USSR	SA 0	OTB	Aug	CC	68	8824/4688	}	-	-
			Sep	CC	31	2896/1218			
	1C	OTB	Jul	CC	33	5621/4021			
			Aug	CC	19	2353/1077			
			Sep	CC	42	4961/1911			
	2G	OTB	Aug	CC	15	2493/1472			
			Sep	CC	31	3330/2084			
	OTM	Jul	CC	11	2097/1334				

Table 15. Scup length and age sampling data for 1976.

Country	ICNAF Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
USSR	6	OTM	Jan	CC	1	200	-	-



Table 16. Striped wolffish length and age sampling data for 1976.

Country	ICNAF Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
Denmark (G)	1C	OTB	Aug	CL	1	362		

Table 17. Atlantic herring length and age sampling data for 1976.

Country	ICNAF Div.	Gear	Month	Type of sample	Length samples		Age samples						
					No.	No. meas.	No.	No. aged					
Canada (M)	4Vn	PS	Nov	CC	30	6503	}	-	-				
			Dec	CC	33	4977							
	4W	OTM	Jan	CC	6	1562	}	7	368				
			Feb	CC	1	211							
			Dec	CC	1	100							
		PS	Jan	CC	58	13499	}	78	3895				
			Feb	CC	20	4213							
			Dec	CC	18	2864							
	4X	SB	Jun	CC	5	781	}	2	71				
			Jul	CC	1	169							
			Aug	CC	7	1073							
			Sep	CC	9	1377							
			Oct	CC	2	455							
			Nov	CC	1	207							
			PS	Jan	CC	4				1286	}	15	593
				Feb	CC	9				2434			
				Mar	CC	2				580			
				Apr	CC	4				625			
				May	CC	2				408			
				Jun	CC	36				6367			
				Jul	CC	39				6016			
				Aug	CC	41				5723			
				Sep	CC	33				5817			
	Oct	CC		4	831								
	GN	Apr	CC	1	187	}	27	808					
		May	CC	3	611								
		Jun	CC	29	4510								
		Jul	CC	2	211								
		Aug	CC	7	1063								
	FPN	May	CC	1	217	}	4	220					
Jun		CC	3	568									
Jul		CC	1	101									
FWR	May	CC	15	3057	}	57	3010						
	Jun	CC	43	6637									
	Jul	CC	57	8259									
	Aug	CC	33	4251									
	Sep	CC	15	1950									
	Oct	CC	5	940									
	Nov	CC	2	289	}	7	244						

Table 17. Atlantic herring (continued)

Country	ICNAF Div.	Gear	Month	Type of sample	Length samples		Age samples					
					No.	No. meas.	No.	No. aged				
France (SP)	4R	OTB	Jan	RC	11	595	-	-				
	4Vn	OTB	Mar	RC	7	1793	-	-				
	4Vs	OTB	Mar	RC	9	2422	-	-				
	4W	OTB	Mar	RC	1	490	-	-				
Fed. Rep. Germany	5Ze	OTB	Mar	RC	8	1587	4	378				
		OTM	Jul	CC	1	90	17	1452				
			Aug	CC	9	890						
			Sep	CC	8	753						
German Dem. Rep.	5Ze	OTM	Sep	CC	25	6120	15	1377				
			Oct	CC	4	859	2	200				
Japan	4X	OTB	Sep	CC	1	102	-	-				
Poland	5Ze	OTB	May	CC	2	793	2	194				
			Sep	CC	3	605	2	128				
				CC	6	1346	6	398				
	6B	OTM	Feb	CC	1	549	1	100				
USSR	4W	OTB	Apr	CC	5	1020	18	396				
			May	CC	21	4200						
	5Ze	OTB	Apr	RC	2	408	-	-				
			Apr	RC	1	200	-	-				
			May	RC	1	200	-	-				
			Aug	RC	4	800	12	114				
				RC	10	2000						
Oct	RC	2	400	-	-							
USA	5Y(N)	NS	May	CC	7	678	43	756				
			Jun	CC	59	5444						
			Jul	CC	58	5597						
			Aug	CC	33	2995						
			Sep	CC	39	3709						
			Oct	CC	23	2173						
			Nov	CC	11	1037						
			Dec	CC	1	100						
			5Y(S)	NS	Jan	CC			7	838	23	550
					Feb	CC			4	398		
	Mar	CC			23	1442						
	Apr	CC			4	113						
	May	CC			1	73						
	Jul	CC			5	100						
	Aug	CC			9	941						
	Sep	CC			9	824						
	Oct	CC			6	596						
	Nov	CC			9	674						
	5Z+6	NS	Jan	CC	3	287	4	120				
			Mar	CC	1	34						

Table 18. Atlantic mackerel length and age sampling data for 1976.

Country	ICNAF Div.	Gear	Month	Type of sample	Length samples		Age samples		
					No.	No. meas.	No.	No. aged	
Bulgaria	5Zw	OTM	Jan	CC	1	200	-	-	
	6A	OTM	Jan	CC	6	1100	}	-	
			Feb	CC	4	800			
	6B	OTM	Jan	CC	4	799	}	-	
Feb			CC	7	1400				
6C	OTM	Jan	CC	1	200	-	-		
Canada (N)	3K	GN	Aug	CL	1	99	}	5	
			Sep	CL	4	170			
			Oct	CL	1	50			
			Nov	CL	2	100			
	LHP	FPN	Dec	CL	3	125	}	3	
			Jul	CL	1	45			
			Aug	CL	3	90			
			Sep	CL	3	160			
	3L	SB	PS	Oct	CL	1	50	}	1
				Oct	CL	2	100		
				Sep	CL	6	202		
				Oct	CL	8	529		
4R	FPN	FPN	Jul	CL	4	200	}	4	
			Jul	CL	3	105			
			Oct	CL	1	50			
			Oct	CL	1	50			
Cuba	5Ze	OTB	Apr	CC	3	1740	-	-	
German Dem. Rep.	5Ze	OTM	Oct	CC	4	790	3	295	
	6A	OTM	Apr	CC	30	10032	3	152	
	6B	OTM	Feb	CC	10	3937	6	397	
			Apr	CC	17	6240	3	153	
Poland	5Ze	OTB	May	CC	2	499	}	2	
			Nov	CC	5	1579			
	OTM	CC	Feb	CC	3	2692	}	6	
			Mar	CC	3	3201			
			Apr	CC	3	1334			
			May	CC	2	1194			
			Oct	CC	3	640			
			Nov	CC	1	569			
	5Zw	OTB	May	CC	2	486	}	2	
			Mar	CC	1	1055			
			Dec	CC	3	406			
	6A	OTM	Jan	CC	5	5200	}	7	
			Feb	CC	2	2809			
			Dec	CC	5	615			
6B	OTM	Jan	CC	12	13946	}	11		
		Feb	CC	2	2440				
		Dec	CC	2	310				
6C	OTM	Jan	CC	2	1940	2	201		
Romania	5Ze	OTM	Feb	CC	7	600	}	3	
			Mar	CC	4	300			
	5Zw	OTM	Feb	CC	1	300	1	103	
	6A	OTM	Jan	CC	6	800	6	310	

Table 18. Atlantic mackerel (continued)

Country	ICNAF Div.	Gear	Month	Type of sample	Length samples		Age samples		
					No.	No. meas.	No.	No. aged	
USSR	4VWX	OTB	May	CC	26	5199	7	213	
			Jun	CC	1	200			
			Jul	CC	1	200			
			Aug	CC	1	200			
			OTB	Jul	RC	1	200	-	-
	5	OTB	Jan	CC	30	6001	5	225	
			Feb	CC	147	29485			
			Mar	CC	96	19313			
			OTB	Apr	RC	5	1013	-	-
				May	RC	17	3425	-	-
6	OTM	Jan	CC	41	8226	3	130		
		Feb	CC	4	841				
USA	5Y	PTB	Nov	CL	2	242	1	31	
		PS	Nov	CL	2	205	-	-	
		FPN	Jun	CL	1	100	1	36	
			Jul	CL	2	203	4	117	
			Aug	CL	2	200			

Table 19. Atlantic menhaden length and age sampling data for 1976.

Country	ICNAF Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
Romania	6B	OTM	Jan	CC	1	200	1	200

Table 20. Alewife length and age sampling data for 1976

Country	ICNAF Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
USSR	4X	OTB	May	CC	1	200	-	-
	5Ze	OTB	Dec	RC	1	200	-	-
	5Zw	OTM	Jan	CC	1	200	-	-
	6	OTM	Jan	CC	2	400	-	-

Table 21. Atlantic argentine length and age sampling data for 1976.

Country	ICNAF Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
Cuba	4W	OTB	Jul	RC	1	123	-	-
USSR	4W	OTB	Jun	CC	5	1020	-	-
	4X	OTB	May	CC	3	600	}	3
			Jun	CC	1	200		
			Jul	CC	2	400		
		OTM	Mar	CC	7	1400	-	-

Table 22. Atlantic butterflyfish length and age sampling data for 1976.

Country	ICNAF Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
Japan	5Ze	OTB	Jan	CC	1	203	-	-
	5Zw	OTB	Jan	CC	2	395	-	-
	6A	OTB	Mar	CC	1	193	-	-
	6B	OTB	Apr	CC	1	174	-	-
USSR	5Ze	OTB	Sep	RC	1	196	-	-
USA	5Zw	OTB	Jan	CL	2	200	}	-
			Aug	CL	1	104		
			Sep	CL	1	97		
	6A	OTB	Feb	CL	1	100	}	-
			Mar	CL	1	100		

Table 23. Capelin length and age sampling data for 1976.

Country	ICNAF Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
Bulgaria	30	OTM	Jun	CL	5	1000	-	-
Canada (N)	2J	OTM	Nov	RC	1	27/22	1	27/22
	3K	OTM	Oct	RC	5	140/110	5	140/110
	3L	OTB	Mar	RC	7	174/176	}	7
			Apr	RC	8	328/77		
			May	RC	1	38/12		
		OTM	Mar	RC	3	82/68	3	82/68
		SB	Jun	CL	2	95/0	2	95/0
		FPN	Jul	CL	1	43/0	1	43/0
		MIS	Jun	RC	23	1095/55	23	1095/55
			Jul	RC	13	598/41	13	598/41
	3N	OTB	Jun	RC	3	63/87	3	63/87
		OTM	Jun	RC	27	277/1073	27	277/1073

Table 23. Capelin (continued)

Country	ICNAF Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
Canada (N) (cont'd)	3Ps	OTB	May	RC	9	216/234	9	217/235
		OTM	May	RC	1	17/33	1	17/33
		SB	Jun	CL	19	890/60	19	890/60
		MIS	Jun	CL	1	49/0	1	49/0
		4T	PS	May	CL	3	116/34	3
-----								
Japan	3N	OTB	Jun	CC	10	882	-	-
			Jul	CC	32	3721	-	-
	30	OTB	Jun	CC	1	49	-	-

Table 24. Short-finned squid (Illex) length and age sampling data for 1976.

Country	ICNAF Div.	Gear	Month	Type of sample	Length samples		Age samples		
					No.	No. meas.	No.	No. aged	
Cuba	4W	OTB	Jul	RC	2	301	-	-	
-----									
France (SP)	3Ps	LHP	Jul	CC	1	71	}	-	-
			Aug	CC	1	125			
-----									
Japan	4V	OTB	Aug	CC	3	302	}	-	-
			Sep	CC	1	98			
	4W	OTB	Jul	CC	2	200	}	-	-
			Aug	CC	1	101			
	5Ze	OTB	Jan	CC	5	599	}	-	-
			Apr	CC	1	209			
	6A	OTB	Jun	CC	1	81	}	-	-
			Feb	CC	2	200			
	6B	OTB	Mar	CC	4	398	}	-	-
			Jun	CC	20	1835			
			Jul	CC	30	2193		-	-
-----									
Poland	5Ze	OTM	Jun	CC	2	539	}	-	-
			Jul	CC	2	411			
			Aug	CC	1	178			
	5Z	OTB	May	RC	1	7351	}	-	-
			6A	OTB	May	RC			
-----									
USSR	4W	OTB	Jul	RC	35	7033		-	-
	4VWX	OTB	Apr	CC	6	1200	}	-	-
			May	CC	67	13400			
			Jun	CC	157	31402			
			Jul	CC	151	30200			
			Aug	CC	21	4200			
	OTB	May	RC	20	4004	}	-	-	
		Jun	RC	23	4600				
	OTM	OTM	May	CC	8	1610	}	-	-
			Jun	CC	19	3800			
			Jul	CC	28	5600			
Aug			CC	50	10000				

Table 24. Short-finned squid (*Illex*) (continued)

Country	ICNAF Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
USSR (cont'd)	5Ze	OTB	Aug	CC	2	400	-	-
			Apr	RC	3	651	}	-
		May	RC	19	3802	-		-
		Aug	RC	1	200	-		-
		Sep	RC	2	388	-		-
		OTM	Aug	CC	5	1000	-	-
USA	5Y	OTB	Sep	CL	1	41	-	-
			Oct	CL	1	55	-	-
	5Ze	OTB	Aug	CL	1	70	-	-

Table 25. Long-finned squid (*Loligo*) length and age sampling data for 1976.

Country	ICNAF Div.	Gear	Month	Type of sample	Length samples		Age samples		
					No.	No. meas.	No.	No. aged	
Japan	5Ze	OTB	Jan	CC	7	931	-	-	
			5Zw	OTB	Feb	CC	1	173	-
	6A	OTB	Jan	CC	3	412	}	-	-
			Feb	CC	4	714		-	-
			Mar	CC	3	670		-	-
			Apr	CC	1	198		-	-
	6B	OTB	Feb	CC	1	246	}	-	-
			Mar	CC	3	593		-	-
			Apr	CC	1	201		-	-
Poland	5Z	OTB	May	RC	3	3740	-	-	
	6A	OTB	May	RC	4	7681	-	-	
USSR	5	OTB	Mar	CC	1	200	-	-	
			Mar	RC	6	1200	-	-	
		Apr	RC	4	821	-	-		
		OTM	Feb	CC	1	227	-	-	
USA	5Zw	OTB	Jan	CL	1	50	}	-	-
			Apr	CL	1	46		-	-
			May	CL	4	661		-	-
			Jun	CL	2	419		-	-
			Aug	CL	1	101		-	-
			Sep	CL	1	100		-	-
	6A	OTB	Feb	CL	1	102	}	-	-
			Mar	CL	2	102		-	-
		FPN	May	CL	1	70	-	-	

Table 26. Squid (NS) length and age sampling data for 1976.

Country	ICNAF Div.	Gear	Month	Type of sample	Length samples		Age samples		
					No.	No. meas.	No.	No. meas.	
USA	6A	OTB	Jan	CL	1	50	}	-	-
			Feb	CL	1	50			

Table 27. Sea scallops length and age sampling data for 1976.

Country	ICNAF Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
USA	5Y	DRB	Mar	CL	2	559		
			Apr	CL	1	401		
			Dec	CL	1	363		
	5Ze	DRB	Apr	CL	2	333		
			May	CL	1	783		
			Nov	CL	4	1254		
			Dec	CL	9	2728		
	6	OTB	Jul	CL	1	533		
			Aug	CL	3	772		
			Sep	CL	2	1142		
			Oct	CL	1	489		
		DRB	Feb	CL	2	1029		
			Apr	CL	6	2389		
			May	CL	6	2544		
			Jun	CL	8	4044		
			Jul	CL	4	1608		
			Aug	CL	5	1730		
			Sep	CL	10	4860		
			Oct	CL	3	1180		



PART II. SAMPLING DATA FROM RESEARCH VESSEL SURVEYS, 1976

The following summary of research sampling data available at the Secretariat is a listing by country, species and division of samples tabulated by species in Table 28. All of these samples were reported as research samples, as indicated by the abbreviation "RC" under "Type of sample". As far as it can be ascertained, these samples pertain to pure research vessel operations, i.e. survey data not connected with commercial fishing operations.

Country	Species	Divisions
Cuba	Atlantic cod	4W
	Haddock	4W
	Silver hake	4W, 4X
	American plaice	4Vs
Denmark (G)	Atlantic cod	1D, 1E
	Atlantic redfish	1A, 1B, 1C, 1D, 1E
	American plaice	1A, 1B, 1C, 1D, 1E
	Greenland halibut	1A, 1B, 1C, 1D, 1E
	Greenland cod	1B, 1D
	Polar cod	1A, 1B
	Roundnose grenadier	1B
	Spotted wolffish	1A
Striped wolffish	1B	
France (SP)	Atlantic cod	2J, 3K, 3L, 3Pn, 4Vn, 4Vs
	Atlantic redfish	3K, 3Pn, 3Ps
	American plaice	3L
German Dem. Rep.	Atlantic cod	2J, 3K, 3L
	Atlantic herring	4X, 5Y, 5Ze, 5Zw
	Atlantic mackerel	5Ze, 5Zw
USSR	Haddock	5Ze
	Silver hake	4W, 5Ze

Table 28. Research sampling data for 1976.

SPECIES Country	ICNAF Div.	Gear	Month	Type of sample	Length samples		Age samples		
					No.	No. meas.	No.	No. aged	
<u>ATLANTIC COD</u>									
Cuba	4W	OTB	Jul	RC	1	87	-	-	
Denmark (G)	1D	OTB	Jan	RC	1	280	}	1	280
			Apr	RC	1	378		4	341
			Jun	RC	3	248			
	1E	OTB	Oct	RC	10	126	10	126	
			Aug	RC	2	238	4	115	
			Feb	RC	1	564	1	157	
France (SP)	2J	OTB	Jun	RC	1	110	1	110	
			Sep	RC	1	108	1	108	
	3K	OTB	Nov	RC	1	372	1	211	
			Feb	RC	14	4056	-	-	
			Feb	RC	27	2419	-	-	
	3L	OTB	Feb	RC	25	6344	1	287	
	3Pn	OTB	Mar	RC	13	4672	-	-	
4Vn	OTB	Mar	RC	4	1763	-	-		
4Vs	OTB	Mar	RC	4	542	-	-		
German Dem. Rep.	2J	OTB	Feb	RC	3	3042	2	603	
	3K	OTB	Feb	RC	16	10159	8	2389	
	3L	OTB	Feb	RC	2	193	1	80	
<u>HADDOCK</u>									
Cuba	4W	OTB	Jul	RC	3	373			
USSR	5Ze	OTB	May	RC	1	200			
			Sep	RC	1	210			
<u>ATLANTIC REDFISH</u>									
Denmark (G)	1A	OTB	May	RC	9	3002			
			Jul	RC	8	3688			
	1B	OTB	Jun	RC	10	4705			
			Jul	RC	53	19248			
			Oct	RC	21	7065			
	1C	OTB	Jun	RC	1	422			
			Jul	RC	1	203			
	1D	OTB	Jan	RC	1	417			
			Apr	RC	1	303			
			Jun	RC	1	177			
			Nov	RC	1	387			
	1E	OTB	Jan	RC	1	678			
			Apr	RC	1	379			
			Jun	RC	2	387			
			Sep	RC	1	307			
			Oct	RC	1	1310			
			Nov	RC	1	1300			
	France (SP)	3K	OTB	Feb	RC	1	512		
Jun				RC	1	236			
Sep				RC	1	281			
Nov				RC	1	287			

SPECIES Country	ICNAF Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
France (SP) (Cont'd)	3Pn	OTB	Mar	RC	2	682		
	3Ps	OTB	Mar	RC	5	1861		
<b>SILVER HAKE</b>								
Cuba	4W	OTB	Jul	RC	3	460		
	4X	OTB	Jul	RC	1	81		
USSR	4W	OTB	Mar	RC	24	4878		
			Apr	RC	25	5118		
			May	RC	15	3018		
			Jun	RC	18	3600		
			Sep	RC	4	803		
	5Ze	OTB	Mar	RC	20	4000		
			Apr	RC	67	13454		
			May	RC	37	7466		
			Dec	RC	17	3409		
<b>AMERICAN PLAICE</b>								
Cuba	4Vs	OTB	Jul	RC	1	70		
Denmark (G)	1A	OTB	May	RC	9	219		
			Jul	RC	9	208		
	1B	OTB	Jun	RC	10	2841		
			Jul	RC	48	2000		
			Oct	RC	30	1387		
	1C	OTB	Jan	RC	1	1333		
			Apr	RC	1	995		
			Jun	RC	1	2483		
			Nov	RC	1	324		
	1D	OTB	Jan	RC	1	440		
			Apr	RC	1	1084		
			Jun	RC	3	655		
			Sep	RC	1	298		
			Oct	RC	1	424		
			Dec	RC	1	642		
1E	OTB	Feb	RC	1	408			
		May	RC	1	487			
		Jun	RC	1	339			
		Sep	RC	1	585			
		Nov	RC	1	785			
France (SP)	3L	OTB	Feb	RC	9	2178		
<b>GREENLAND HALIBUT</b>								
Denmark (G)	1A	OTB	May	RC	9	2393		
			Jul	RC	8	4698		
	1B	OTB	Jun	RC	11	313		
			Jul	RC	52	3194		
			Oct	RC	29	813		
		OTM	Jul	RC	1	139		
	1C	OTB	Apr	RC	1	99		
	1D	OTB	Jan	RC	1	156		
			Oct	RC	1	144		
			Dec	RC	1	120		
	1E	OTB	Feb	RC	1	83		
			Nov	RC	1	75		

SPECIES Country	ICNAF Div.	Gear	Month	Type of sample	Length samples		Age samples	
					No.	No. meas.	No.	No. aged
<u>GREENLAND COD</u>								
Denmark (G)	1B	OTB	Jun	RC	3	66		
	1D	OTB	Feb	RC	1	74		
			Dec	RC	1	61		
		GN	Nov	RC	6	192		
		LHP	Aug	RC	1	56	1	56
<u>POLAR COD</u>								
Denmark (G)	1A	OTB	Jul	RC	7	971		
	1B	OTB	Jul	RC	2	82		
		OTM	Jul	RC	1	128		
<u>ROUNDNOSE GRENADIER</u>								
Denmark (G)	1B	OTB	Jul	RC	1	127		
<u>SPOTTED WOLFFISH</u>								
Denmark (G)	1A	LL	Sep	RC	1	74		
<u>STRIPED WOLFFISH</u>								
Denmark (G)	1B	OTB	Jun	RC	7	128		
<u>ATLANTIC HERRING</u>								
German Dem. Rep.	4X	OTB	Mar	RC	1	77	1	51
	5Y	OTB	Mar	RC	4	700	2	195
	5Ze	OTB	Mar	RC	11	217	4	138
	5Zw	OTB	Mar	RC	5	300	3	207
<u>ATLANTIC MACKEREL</u>								
German Dem. Rep.	5Ze	OTB	Mar	RC	11	1042	4	168
	5Zw	OTB	Mar	RC	5	85	1	39