

Northwest Atlantic



Fisheries Organization

Serial No. N1522

NAFO SCS Doc. 88/19

SCIENTIFIC COUNCIL MEETING - JUNE 1988

Summary of Sampling Data (1983-86), Collecting Data Methods Used,  
and Level of Scientific Information Available on Stocks  
Occurring in the Regulatory Area

by

NAFO

Information from Regulatory Area

In answer to the request from the Fisheries Commission concerning the Annual Scientific Program in the Regulatory Area it was necessary for STACREC to analyze the level of scientific information by stocks and the coverage of sampling programs. Most of this information is presented in this paper.

Statistical information is recorded in the NAFO database by statistical division without a breakdown between catches inside or outside of the Regulatory Area. In recent years most of the fleets fishing in the NAFO Convention Area are restricted to specific zones and both reported catches and biological sampling data have a known area of application. It is known that Canadian catches are primarily from inside the 200-mile limit and all catches of the EEC in Subarea 3 occur in the Regulatory Area. Non-member countries fish only in the Regulatory Area. This information is not contained in NAFO database but it is often used by the Scientific Council and was used in preparing this document.

Biological sampling methods used in the Regulatory Area

Table 1 contains information on the sampling methods used by different countries to collect scientific data on stocks and the current level of intensity in the Regulatory Area. Landings refers to sampling made at the time of landing. As a rule, this would mainly apply to coastal fleets landing fresh fish i.e. Canada. Samplers refers to sampling made on board by specialized personnel (samplers). This is the most common system for sampling catches by long distant fleet. Catch is often further processed, and a few species (e.g. squid) are frozen without initial processing. Sampling on board allows the samples to be taken from the total catch, the discarded catch or the retained catch after the discarded portion was removed. All samplers are given, as a general rule, the instruction to take samples from the total catch but Spanish samples are mainly taken from the retained portion of the catch.

In Table 1, SOP refers to the Scientific Observer Program that was in operation from 1983, and Annual intensity is an estimate of the present scope of each action. Research surveys carried out by different countries are listed under surveys. Surveys are made on board research vessels and cover completely the statistical division indicated. All surveys listed are directed to study stocks occurring in the Regulatory Area although not all sets are made inside this Area. In some instances only a few of them are.

Statistical and scientific data available and deficiencies for stocks occurring in the Regulatory Area

Table 2 presents a judgement of statistical reporting and sampling coverage for stocks occurring in the Regulatory Area.

The criterion used in evaluating statistical information and biological data was based on whether such information could be recognized as belonging to the Regulatory Area. But the criterion for judging R/V surveys and biological studies was based on whether the target species occur or not in the Regulatory Area.

An entry for non-member countries was inserted for those stocks for which a known fishery exists. Non-reporting of catches is a general feature for non-member countries in the Regulatory Area. The absence of an entry for non-member countries does not preclude the existence of catches by those countries.

Summary of sampling and statistical data

Summarized information on catch and sampling intensity by country and by stock is provided in Table 3. This information is contained in the NAFO database and it is published in various Scientific Council summary documents prepared by the Secretariat. Here the information is presented by quarter except for catch in 1986 because that information is not yet completed in the NAFO database. Catches, and quantities of length measurements and age data presented belong to the whole statistical divisions indicated in the heading of each section in the table. As is indicated above, this information is not available separately for outside and inside the Regulatory Area.

Table 1. Biological sampling methods used and type of survey carried out in the Regulatory Area.

Biological Sampling				
Country	Method	Species	Divisions	Annual Intensity
Canada	Landings } Samplers } S.O.P. }	Groundfishes	3LNO	{ 500 samples 800 days 25 days (1987)
Cuba	Samplers	Redfish	3LMNO	120 days
Portugal	Samplers	Groundfishes	3LMNO	150 days
Spain	Samplers	Groundfishes	3LMNO	380 days

  

Surveys						
Country	Type of survey	Divisions	Months	No. Sets	Remarks	
Canada	Groundfish	3L	Spring	140	from 1977	
	Groundfish	3L	Autumn	150	from 1981	
	Groundfish	3L	Winter	190	1985-1986	
	Juvenile flatfish	3LNO	11	60		
	Groundfish	3NO	3,4,5	140	from 1977	
	Capelin (acoustic)	3KL	5,6			
	Cod (acoustic)	3KL	6			
	Capelin (acoustic)	3KL	10,11,12			
	Capelin (acoustic)	3NO	6,7			
	Capelin	3NO	11	120		
USSR	Capelin (acoustic)	3KLNO	5,6	40		
	Groundfish and acoustic	3KLMNO	3,4,5,6,7	530	from 1977	
	Capelin (hydroacoustic)	3KLNO	11, 12	60		
	Ichthyoplankton and hydrography	3M	4		from 1981	

Table 2. Statistical and scientific data available and deficiencies for stocks occurring in the Regulatory Area: (\* no information; \*\* = same information; and \*\*\* = complete information).

COD 3L (2J+3KL) - Advice based on: SPA.

Country	Statistical Information On			Biological Sampling		R/V Abundance Surveys for		Biological Studies	
	Nominal Catch	Discarded Catch	Directed Fishing Effort	Catches	Discards	Stock	Recruits	Stock Identif.	Others
Canada	***	**	***	***	**	/			
EEC (Portugal)	***	**	*	**	**				
EEC (Spain)	***	**	***	**	*				
EEC (FRG)	***	*	***	**	*				
Non-members	*	*	*	*	*				
Collectively									

COD 3M - Advice based on: General considerations (part on a SPA).

Country	Statistical Information On			Biological Sampling		R/V Abundance Surveys for		Biological Studies	
	Nominal Catch	Discarded Catch	Directed Fishing Effort	Catches	Discards	Stock	Recruits	Stock Identif.	Others
Faroos	**	*	*	*	*	/			
USSR	***	*	*	**	*				
EEC (Spain)	***	**	***	**	*				
EEC (Portugal)	***	**	*	**	**				
EEC (FRG)	***	*	*	*	*				
Non-members	*	*	*	*	*				
Collectively						***	***	***	**

TABLE 2. (CONTINUED).

COD 3N0 - Advice based on: SPA.

Country	Statistical Information On			Biological Sampling		R/V Abundance Surveys for		Biological Studies					
	Nominal Catch	Discarded Catch	Directed Fishing Effort	Catches	Discards	Stock	Recruits	Stock Identif.	Others				
Canada	***	**	***	***	**								
Cuba	***	*	*	*	*								
USSR	***	*	*	*	*								
USA	***	*	*	*	*								
EEC (Spain)	***	**	***	***	**								
EEC (Portugal)	***	*	**	**	**								
EEC (France)	***	*	*	*	*								
Non-members	*	*	*	*	*								
Collectively										***	***	**	**

REDFISH 3M - Advice based on: General Production Analysis.

Country	Statistical Information On			Biological Sampling		R/V Abundance Surveys for		Biological Studies	
	Nominal Catch	Discarded Catch	Directed Fishing Effort	Catches	Discards	Stock	Recruits	Stock Identif.	Others
USSR	***	*	***	**	*				
EEC (Spain)	***	*	***	**	*				
EEC (Portugal)	***	*	***	**	*				
Non-member	*	*	*	*	*				
Collectively									

Table 2. (Continued).

REDFISH 3LN - Advice based on: General Production Analysis.

Country	Statistical Information On			Biological Sampling		R/V Abundance Surveys for		Biological Studies	
	Nominal Catch	Discarded Catch	Directed Fishing Effort	Catches	Discards	Stock	Recruits	Stock Identif.	Others
Canada	***	*	***	**	*	/			
GDR	***	*	***	*	*				
Japan	***	*	***	**	*				
USSR	***	*	***	**	*				
Cuba	***	*	***	*	*				
EEC (FRG)	***	*	***	*	*				
EEC (Portugal)	***	*	***	**	*				
EEC (Spain)	***	*	***	**	*				
Non-members	*	*	*	*	*				
Collectively									

REDFISH 30.

Country	Statistical Information On			Biological Sampling		R/V Abundance Surveys for		Biological Studies	
	Nominal Catch	Discarded Catch	Directed Fishing Effort	Catches	Discards	Stock	Recruits	Stock Identif.	Others
Canada	***	*	***	*	*	/			
Cuba	***	*	***	*	*				
Japan	***	*	***	*	*				
USSR	***	*	***	*	*				
Collectively									

Table 2. (Continued).

AMERICAN PLAICE 3M.- Advice based on: General considerations.

Country	Statistical Information On			Biological Sampling:		R/V Abundance Surveys for:		Biological Studies	
	Nominal Catch	Discarded Catch	Directed Fishing Effort	Catches	Discards	Stock	Recruits <sup>1</sup>	Stock Identif.	Others
USSR	***	*	***	**	*	/			
EEC (Spain)	***	*	*	**	*				
EEC (Portugal)	***	*	*	**	*				
EEC (FRG)	***	*	*	*	*				
Non-members	*	*	*	*	*				
Collectively									

<sup>1</sup> not an issue for this stock

AMERICAN PLAICE 3LNO - Advice based on: SPA.

Country	Statistical Information On			Biological Sampling:		R/V Abundance Surveys for:		Biological Studies	
	Nominal Catch	Discarded Catch	Directed Fishing Effort	Catches	Discards	Stock	Recruits	Stock Identif.	Others
Canada	***	**	***	***	**	/			
USA	***	*	*	**	*				
South Korea	**	*	*	*	*				
EEC (Spain)	***	**	*	**	**				
EEC (Portugal)	***	*	*	**	*				
Non-members	* <sup>1</sup>	*	*	*	*				
Collectively						***	**	** <sup>2</sup>	**

<sup>1</sup> Surveillance estimates only

<sup>2</sup> No recent information

Table 2. (Continued).

YELLOWTAIL FLOUNDER 3LNO - Advice based on: General considerations

Country	Statistical Information On			Biological Sampling		R/V Abundance Surveys for		Biological Studies	
	Nominal Catch	Discarded Catch	Directed Fishing Effort	Catches	Discards	Stock	Recruits	Stock Identif.	Others
Canada	***	**	***	***	**	/			
USA	***	*	*	**	*				
South Korea	**	*	*	*	*				
EEC (Spain)	***	**	*	**	**				
EEC (Portugal)	***	*	*	*	*				
Non-members	* <sup>1</sup>	*	*	*	*				
Collectively									

<sup>1</sup> Surveillance estimates only

<sup>2</sup> Stock ID not considered an issue for this stock

WITCH 3L (2J+3KL) - Advice based on: General considerations.

Country	Statistical Information On			Biological Sampling		R/V Abundance Surveys for		Biological Studies	
	Nominal Catch	Discarded Catch	Directed Fishing Effort	Catches	Discards	Stock	Recruits	Stock Identif.	Others
Canada	***	Not applicable	NA	***	Not applicable	/			
Poland	***	Not applicable	NA	***	Not applicable				
EEC	***	Not applicable	*	**	Not applicable				
Non-members	*	*	*	*	*				
Collectively									

Table 2. (Continued).

WITCH 3N0. - Advice based on: No change due to lack of data.

Country	Statistical Information On			Biological Sampling		R/V Abundance Surveys for		Biological Studies	
	Nominal Catch	Discarded Catch	Directed Fishing Effort	Catches	Discards	Stock	Recruits	Stock Identif.	Others
Canada	***	Not applicable	***	**	Not applicable	/			
USSR	***		*	*					
EEC	***		*	**					
Non-members	*		*	*					
Collectively									

GREENLAND HALIBUT 3L (2+3KL) - Advice based on: General considerations.

Country	Statistical Information On			Biological Sampling		R/V Abundance Surveys for		Biological Studies	
	Nominal Catch	Discarded Catch	Directed Fishing Effort	Catches	Discards	Stock	Recruits	Stock Identif.	Others
Canada	***	N/A	**	***	N/A	/			
Poland	***	N/A	**	***	N/A				
USSR	***	N/A	**	***	N/A				
Japan	***	N/A	**	***	N/A				
GDR	***	N/A	**	***	N/A				
Denmark (Faroes)	***	N/A	**	***	N/A				
EEC	***	N/A	*	*	N/A				
Collectively						**	*	***	**



Table 2. (Continued).

ROUNDNOSE GRENADE 2+3 - Advice based on: No change due to lack of data.

Country	Statistical Information On			Biological Sampling		R/V Abundance Surveys for		Biological Studies	
	Nominal Catch	Discarded Catch	Directed Fishing Effort	Catches	Discards	Stock	Recruits	Stock Identif.	Others
Canada	***	*	***	*	*	/			
GDR	***	*	***	**	*				
Poland	***	*	***	*	*				
USSR	***	*	***	**	*				
Japan	***	*	***	*	*				
EEC (FRG)	***	*	***	*	*				
EEC (Portugal)	***	*	***	**	*				
Non-members	*	*	*	*	*				
Collectively									

CAPELIN 3LNO - Advice based on: General considerations.

Country	Statistical Information On			Biological Sampling		R/V Abundance Surveys for		Biological Studies	
	Nominal Catch	Discarded Catch	Directed Fishing Effort	Catches	Discards	Stock	Recruits	Stock Identif.	Others
Canada	***	**	***	***	*	/			
USSR	***	*	***	**	*				
Collectively						***	***	**	**

Table 2. (Continued).

SQUID 3+4 - Advice based on: No changes due to lack of data.

Country	Statistical Information On			Biological Sampling		R/V Abundance Surveys for		Biological Studies	
	Nominal Catch	Discarded Catch	Directed Fishing Effort	Catches	Discards	Stock	Recruits	Stock Identif.	Others
Canada	***	*	**	**	*	/			
USSR	***	*	**	**	*				
Cuba	***	*	**	*	*				
Japan	***	*	**	**	*				
EEC (Spain)	***	*	*	**	*				
Collectively									

Table 3. Sampling data available and reported catch for stocks in the Regulatory Area, 1983-86. Quarterly summary. [(\*) Canadian Scientific Observer Program.]

Year	Country	Catch (t)				Length (no. meas.)				No. aged			
		1	2	3	4	1	2	3	4	1	2	3	4
<u>COD DIV. 3L</u>													
1983	CAN	11,995	28,436	39,465	14,228	13,758	38,980	38,153	9,960	330	7,963	-	-
	DDR	-	-	14	-	-	-	-	-	-	-	-	-
	FRO	46	24	-	-	-	-	-	-	-	-	-	-
	NOR	-	427	466	347	-	-	-	-	-	-	-	-
	POL	1	-	-	-	-	-	-	-	-	-	-	-
	SUN	6	4	-	-	-	-	-	-	-	-	-	-
	E/ESP	172	2,972	603	1,315	-	-	-	-	-	-	-	-
	E/PRT	-	622	1,632	2,267	-	-	-	-	-	-	-	-
1984	CAN	22,774	28,241	38,053	7,951	41,645	30,368	26,817	3,749	531	752	1,996	379
	DDR	-	-	55	-	-	-	-	-	-	-	-	-
	JPN	-	1	-	316	-	-	-	-	-	-	-	-
	NOR	186	76	392	-	-	-	-	-	-	-	-	-
	SUN	-	18	5	-	-	-	-	-	-	-	-	-
	E/DEU	82	-	-	-	-	-	-	-	-	-	-	-
	E/FRA	213	100	-	-	-	-	-	-	-	-	-	-
	E/GBR	-	-	31	-	-	-	-	-	-	-	-	-
	E/PRT	768	990	1,389	3,192	-	-	-	-	-	-	-	-
1985	CAN	1,753	14,254	40,511	19,651	1,248	36,735	28,983	19,841	159	1,408	1,675	1,451
	DDR	2	-	-	21	-	-	-	259*	-	-	-	47*
	JPN	-	1	-	-	-	-	-	-	-	-	-	-
	SUN	4	9	-	-	-	203	-	-	-	203	-	-
	E/DEU	9,600	5,866	-	-	-	-	-	-	-	-	-	-
	E/ESP	2,060	4,448	708	3,422	-	1,375	-	-	-	112	-	-
	E/PRT	-	2,375	1,624	1,032	2,243	-	-	-	-	-	-	-
	E/FRA-M	-	-	-	-	-	-	-	273*	-	-	-	-
1986	CAN	-	-	(88,303)	4,465	17,110	9,060	25,059	-	346	1,853	363	471
	DDR	-	-	(7)	-	-	-	-	-	-	-	-	-
	JPN	-	-	(1)	-	-	-	-	-	-	-	-	-
	NOR	-	-	(1,184)	-	-	-	-	-	-	-	-	-
	E/ESP	-	-	(21,849)	-	3,944	-	-	-	-	393	-	-
	E/PRT	-	-	(30,463)	-	-	-	-	-	-	-	-	-
	E/FRA (2J3KL)	-	-	(1,539)	-	-	-	-	-	-	-	-	-
<u>COD DIV. 3M</u>													
1983	DDR	3	-	-	-	-	-	-	-	-	-	-	-
	FRO	339	236	751	163	-	-	-	-	-	-	-	-
	JPN	-	1	14	-	-	-	-	-	-	-	-	-
	NOR	96	1	14	-	-	-	-	-	-	-	-	-
	E/ESP	99	925	1,296	2,087	-	-	-	-	-	-	-	-
	E/PRT	847	634	578	871	-	-	-	-	-	-	-	-
1984	CUB	-	-	5	-	-	-	-	-	-	-	-	-
	FRO	-	(3,058)	-	-	-	-	-	-	-	-	-	-
	JPN	-	1	3	5	-	-	-	-	-	-	-	-
	NOR	-	-	47	-	-	-	-	-	-	-	-	-
	SUN	230	601	79	-	-	-	-	-	-	-	-	-
	E/DEU	270	184	-	-	-	-	-	-	-	-	-	-
	E/ESP	188	2,295	943	1,319	-	-	-	-	-	-	-	-
	E/PRT	566	1,091	775	1,042	-	-	-	-	-	-	-	-
1985	CUB	-	-	9	-	-	-	-	-	-	-	-	-
	FRO	572	874	747	73	-	-	2,171*	-	-	-	38*	-
	JPN	-	1	-	4	-	-	-	-	-	-	-	-
	NOR	-	-	162	243	-	-	-	-	-	-	-	-
	SUN	145	72	155	899	-	447	-	-	-	447	-	-
	E/DEU	351	78	-	-	-	-	-	-	-	-	-	-
	E/ESP	668	2,027	662	1,557	-	2,644	-	-	-	567	-	-
	E/PRT	1,928	145	755	1,548	335	-	-	-	127	-	-	-



Table 3. (Continued)

Year	Country	Catch (t)				Length (no. meas.)				No. aged				
		1	2	3	4	1	2	3	4	1	2	3	4	
1985	CUB	-	-	1,831	-									
	JPN	-	46	-	267									
	SUN	631	2,091	9,215	3,766	-	-	14,024	-	-	-	763	-	
	E/DEU	236	612	-	-									
	E/ESP	43	88	80	70									
	E/PRT	224	70	363	649	141	266	-	-	-	-	-	-	-
1986	CUB		(1,684)											
	DDR		(88)											
	JPN		(400)											
	SUN		(15,045)											
	E/DEU		(145)											
	E/PRT		(10,783)											
<u>REDFISH DIV. 3LN</u>														
1983	CAN	1,584	2,251	826	1,803	1,268	-	-	1,488	-	-	-	-	-
	CUB	-	57	2,313	-									
	DDR	-	-	586	-									
	POL	2	-	-	-									
	SUN	4,371	3,592	352	694									
	E/ESP	22	903	85	212									
	E/PRT	-	3	6	82									
1984	CAN	411	262	275	348	1,468	1,251	375	260	480	310	-	109	
	CUB	18	24	2,278	-									
	DDR	-	-	829	20									
	JPN	-	100	81	5									
	POL	1	-	-	-									
	SUN	7,759	994	384	140									
	E/DEU	71	18	-	-									
	E/ESP	67	16	125	122									
	E/PRT	365	-	-	48	134*	-	-	-	-	-	-	-	
	1985	CAN	173	479	845	954	831	-	966	674	-	-	-	-
CUB		258	26	1,771	-									
DDR		311	-	-	361									
JPN		-	129	-	-									
POL		4	-	-	-									
SUN		4,527	4,935	2	1,421	-	6,695	-	-	-	2,253	-	-	
USA		-	79	5	-									
E/DEU		265	44	-	-									
E/ESP		640	568	975	890	-	2,181	-	-	-	-	-	-	
E/PRT		60	751	-	83	808	531	-	-	-	-	-	-	
1986	CAN		(4,838)			182	968	9,584	2,232	-	-	-	-	
	CUB		(2,429)											
	DDR		(485)											
	JPN		(147)											
	SUN		(10,885)											
	USA		(4)			-	100	-	-	-	22	-	-	
	E/DEU		(53)											
	E/ESP		(1,592)			-	-	-	1,017	-	-	-	-	
	E/PRT		(21,742)			-	1,344	6,793	-	-	-	-	-	
	E/FRA (2J3KL)		(5)											
<u>REDFISH DIV. 30</u>														
1983	CAN	2	5	-	-									
	CUB	52	326	1,082	-									
	JPN	-	-	1	-									
	SUN	3,459	1,123	750	338	-	-	303	-	-	-	-	-	
	E/FRA	-	-	-	2									
1984	CAN	21	105	34	7	493	843	223	-	-	-	-	-	
	CUB	-	32	1,284	-									
	JPN	-	-	246	1,012	-	-	-	6,738*	-	-	-	-	
	SUN	7,759	785	4,891	1,779									
	E/ESP	-	-	-	25									
	E/PRT	-	-	-	-	138*	-	-	-	-	-	-	-	

Table 3. (Continued).

Year	Country	Catch (t)				Length (no. meas.)				No. aged			
		1	2	3	4	1	2	3	4	1	2	3	4
1985	CAN	1	-	69	32	139	-	522	1,279	34	-	-	-
	CUB	453	195	158	-	-	-	-	-	-	-	-	
	JPN	-	-	197	464	-	-	-	2,725*	-	-	-	
	SUN	1,369	113	2,868	1,555	-	438	213	-	-	438	-	
	USA	-	88	15	-	-	-	-	-	-	-	-	
	E/ESP	152	213	114	151	-	-	-	-	-	-	-	
	E/PRT	-	-	-	-	646	2,004	-	-	-	-	-	
1986	CAN		(143)			79	-	-	107	-	-	-	
	CUB		(3,006)			-	-	-	-	-	-	-	
	JPN		(1,162)			1,698*	-	4,010*	2,096*	-	-	-	
	SUN		(6,099)			-	-	-	-	-	-	-	
	USA		(2)			101	103	-	-	23	23	-	
	E/ESP		(45)			-	-	-	-	-	-	-	
<u>AMERICAN PLAICE DIV. 3M</u>													
1983	JPN	-	-	9	-	-	-	-	-	-	-	-	
	SUN	43	9	674	512	-	-	-	-	-	-	-	
	E/ESP	13	94	115	212	-	-	-	-	-	-	-	
	E/PRT	67	125	-	16	-	-	-	-	-	-	-	
1984	JPN	-	-	-	1	-	-	-	-	-	-	-	
	SUN	377	334	-	-	-	-	-	-	-	-	-	
	E/DEU	190	-	-	-	-	-	-	-	-	-	-	
	E/ESP	12	90	64	38	-	-	-	-	-	-	-	
	E/PRT	75	-	121	-	-	-	-	-	-	-	-	
1985	JPN	-	-	-	2	-	-	-	-	-	-	-	
	SUN	57	428	-	486	-	-	-	-	-	-	-	
	E/DEU	318	-	-	-	-	-	-	-	-	-	-	
	E/ESP	5	38	21	99	-	-	-	-	-	-	-	
	E/PRT	23	53	120	70	-	-	-	-	-	-	-	
1986	JPN		(3)										
	SUN		(962)										
	E/ESP		(1,048)										
	E/PRT		(1,741)										
<u>AMERICAN PLAICE DIV. 3LNO</u>													
1983	CAN	2,897	13,063	10,586	9,361	7,971	15,509	11,166	10,219	1,352	3,630	1,384	2,065
	CUB	-	3	-	-	-	-	-	-	-	-	-	-
	SUN	32	18	764	38	-	-	-	-	-	-	-	-
	E/FRA	-	40	1	-	-	-	-	-	-	-	-	-
	E/ESP	49	909	157	484	-	-	-	-	-	-	-	-
1984	CAN	7,032	13,736	10,310	2,678	21,327	21,708	10,435	7,289	2,419	2,137	1,420	1,109
	CUB	3	4	4	-	-	-	-	-	-	-	-	-
	JPN	-	1	-	5	-	-	-	-	-	-	-	-
	NOR	-	4	5	-	-	-	-	-	-	-	-	-
	POL	1	-	-	-	-	-	-	-	-	-	-	-
	SUN	102	69	189	-	-	-	-	-	-	-	-	-
	E/DEU	35	-	-	-	-	-	-	-	-	-	-	-
	E/FRA	-	122	18	-	-	-	-	-	-	-	-	-
	E/ESP	30	383	479	805	-	-	-	-	-	-	-	-
	E/PRT	-	-	-	34	-	-	-	-	-	-	-	-
	1985	CAN	5,051	10,893	12,010	11,136	-	-	629	6,037	-	-	-
CUB		18	12	-	-	-	-	-	-	-	-	-	-
DDR		-	-	-	1	-	-	-	-	-	-	-	-
JPN		-	-	-	2	-	-	-	-	-	-	-	-
POL		4	-	-	-	-	-	-	-	-	-	-	-
SUN		3	65	-	13	-	-	-	-	-	-	-	-
USA		-	168	840	301	-	-	-	-	-	-	-	-
KOR-S		9	163	525	344	-	-	-	-	-	-	-	-
E/DEU		63	-	-	-	-	-	-	-	-	-	-	-
E/ESP		303	1,973	1,634	1,374	3,016	9,218	3,739	6,194	-	-	-	-
E/PRT		-	15	-	12	-	575	-	-	-	-	-	-



