

Northwest Atlantic



Fisheries Organization

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SCIENTIFIC COUNCIL MEETING - JUNE 1980

Report on Statistical Activities and Publications, 1979/80

by

Assissant Executive Secretary

1. Fishery Statistics

a) STATLANT 21A Reports (deadline 15 April)

- i) Provisional nominal catch statistics by species and division for 1978 were initially compiled in ICNAF Sum. Doc. 79/VI/30 for the 1979 Annual Meeting. Subsequent to the issuing of that document, it became known that the data included some double-counting of catches from cooperative arrangements between Canada and some countries and also that some catches were not counted. After several months of waiting for replies to correspondence about these problems, an updated version of Sum. Doc. 79/VI/30 was issued in January 1980, containing the "advance release" of 1978 nominal catches in a reasonably final form.
- ii) Provisional nominal catch statistics for 1979, usually reasonably complete at the time of the June Annual Meeting and issued as a summary document, are not yet complete enough to warrant the compilation of the tables. The most significant outstanding report for 1979 is that for Canada(Nfld), which was not available at the time of preparing this synopsis (7 June). In view of the great variety of species taken by Canada (N) in most divisions of Subareas 2, 3 and 4 and the volume of catch totalling perhaps nearly half a million tons from these areas, the amount of work involved in preparing the document without Canada (N) statistics was not considered warranted. However, the provisional advance release of 1979 nominal catches will be issued as soon as the Canada (N) data become available. STATLANT 21A data for 1979 are also outstanding for Norway, Ireland, Italy and UK, but some preliminary data from other sources have been utilized for these countries.

b) STATLANT 21B Reports (deadline 30 June)

These reports, containing detailed nominal catch and effort data broken down by gear, tonnage class, main species, division and month, are used as the final statistics for publication in the Statistical Bulletin.

- i) Statistical Bulletin Vol. 27 for 1977 was finally issued in November 1979, nearly a year after its scheduled publication in December 1978. The delay was caused by the complication of sorting out the actual national statistics and those accruing from joint venture operations.
- ii) Statistical Bulletin Vol. 28 for 1978. The publication of this volume has also been delayed significantly beyond the scheduled publication date for the same reasons as noted above, but fewer problems have been encountered with reporting of national and "joint venture" statistics, and it is anticipated that Vol. 28 will be ready by August 1980. Meanwhile, the advance release, for assessments, of 1978 catch and effort data (tonnage classes 2 to 7) for Subareas 0 to 4 was prepared as a working paper for this meeting.
- iii) STATLANT 21B reports for 1979 (deadline 30 June 1980). Some detailed catch and effort data for 1979 have already been received (Denmark(G) offshore vessels, France(SP), Poland and Romania). It should be noted that these data, when complete, will be published in the first NAFO Statistical Bulletin, which will be numbered Vol. 29 for continuity with the previous ICNAF Statistical Bulletin series.

c) Historical catches

For the past several years, the Secretariat has compiled the nominal catches (for most recent 10-year period) by country and stock for practically all stocks that were managed by ICNAF prior to the implementation of the 200-mile regime. This policy has been continued with the presentation of data for 1969-78 (NAFO SCS 80/VI/11). The statistics used in that document for 1977 and 1978 are derived from those for Statistical Bulletin, that is, the data for countries

involved in joint venture operations with Canada are included with the national statistics reported by those countries, in accordance with the current practice that the flag of the vessel is the main feature which determines the country to which such catches should be assigned. Thus, for comparison of national catches with quota allocations (1977 and 1978), catches from joint venture operations must be subtracted from the published statistics of these countries and added to those of Canada. For 1977, joint venture statistics are listed in a separate table in *Stat. Bull.* Vol. 27 and the same will apply for 1978.

d) Seal catch and effort data

Available sealing statistics for the Northwest Atlantic in 1979 are given in NAFO SCS Doc. 80/VI/4.

e) Statistics from cooperative arrangements

NAFO SCS Doc. 79/XI/1, outlining problems encountered in documenting fishery statistics from cooperative arrangements between coastal states and other countries, and presented to the November 1979 Meeting of the Scientific Council, was deferred for consideration by STACREC at this June 1980 Meeting.

f) Progress in updating statistics for earlier years

Detailed catch and effort data for 1972 to 1978 have been updated where necessary and exist as computer files. Updating of detailed statistics for 1969, 1970 and 1971 for most countries except Canada and USA has been completed. A complete file of nominal catch data in STATLANT 21A format exists for all years from 1965.

g) Format of future NAFO Statistical Bulletin

The numerous requests for monthly catches of species not listed in Table 4 of the ICNAF Statistical Bulletin and not given separately in Table 5 indicates the possible need for a change in the format of Table 5, which now contains the monthly catch and effort data. Significant among the species affected are capelin and argentine (now grouped under VFF), roundnose grenadier and wolffishes (now grouped under GRO), Greenland halibut (now grouped under FLX), squid and shrimp (now grouped under INV).

A new format for Table 5 might be based on a computer program, developed by the Secretariat for rapid retrieval of STATLANT 21B data, whereby the catches of all species individually can, if necessary, be extracted from the table by gear, vessel class, division and month, together with associated data on fishing effort, if available. A sample page of such a table is at Appendix I. It is estimated that Table 5 would be increased by about 50%. However, the new format for Table 5 might eliminate the need for Table 6, which is now equivalent to 25-30% of Table 5 in its present form.

STACREC should at this meeting give some consideration to a new Table 5 that will meet the needs of more users of the data, so that any modifications can be incorporated in the first issue of the NAFO Statistical Bulletin.

2. Sampling Program

a) Sampling Yearbooks

Annual lists of sampling data received at the Secretariat are initially issued as summary documents to allow scientists to check the lists against data in their national archives and report any errors and omissions prior to publication of the lists in Sampling Yearbook. Although Sampling Yearbook, Vol. 21 for 1976, was issued in December 1978, the publication of Vol. 22 for 1977 (based on the data presented in ICNAF Sum. Doc. 79/VI/12) has been delayed due to the absence of USA sampling data which is forthcoming according to correspondence with USA scientists. However, all data for 1977 exists on a computer file and can be supplied in the usual format (App. 2) upon request.

Lists of available sampling data for 1978 are given in NAFO SCS Doc. 80/VI/8. These lists are very incomplete, as indicated in the text of that document, and scientists are urged to submit all non-reported data to the Secretariat as soon as possible.

Detailed length frequency data for 1979 on the new sampling forms are only now being received and processed, but few, if any, age-length keys have as yet been reported.

b) Efficiency of sampling in 1978

At the 1979 Annual Meeting, it was agreed that the annual production of this document should be

continued, with a more refined breakdown of the catches and sampling data by major gear categories. This has been done for the analyses of 1978 data presented in NAFO SCS Doc. 80/VI/13.

c) Revised outline of NAFO Sampling Program

With the implementation of more detailed requirements for sampling data, the outline of the sampling program applicable to ICNAF, has been updated and a revised version is presented in NAFO SCS Doc. 80/VI/20.

d) Acquisition of Greenland halibut sampling data for previous years

Following the recommendation from the 1979 Annual Meeting regarding this matter, the Secretariat through correspondence with some countries requested that existing data be submitted as soon as possible, so that it could be used in assessments prior to the 1980 Meeting of the Scientific Council.

USSR scientists in December 1979 submitted length compositions and age-length keys for the years 1969 to 1976 by division for Subareas 0 and 1, and indicated that corresponding data for other divisions (presumably those in Subareas 2 and 3) would be forwarded after ageing had been completed. It was noted in the correspondence that ageing of Greenland halibut was difficult by both otoliths and scales and that nearly 20% of the fish cannot be aged.

e) Computer-processing of data for earlier years

All available sampling data for 1971-78 (except USA data for 1977 and 1978) have been computerized and supplied upon request to scientists and laboratories involved in the work of NAFO. Some data for 1970 and earlier years have been processed but the files are not as yet complete.

f) Supplements to Sampling Yearbook, Vol. 16 and 17

Although the details of sampling data for 1971 and 1972 were presented in Vol. 16 and 17, some additional data for these years have been received and many revisions have been noted. Consequently, it is the intent of the Secretariat to issue soon revised lists of sampling data for these years. It is proposed that these lists be issued as "Supplements" to the applicable volumes.

3. List of Fishing Vessels

The last published list of fishing vessels was for the year 1977, issued in April 1980, instead of in 1978 as scheduled, due to late submissions from several countries. If there is a need for this publication to be continued, the next issue will be a NAFO issue containing data on fishing vessels operating in the Northwest Atlantic in 1980. If the publication is to be continued, STACREC should review the format of presentation (App. 3).

SPECIES - COD SEX - COMBINED DIVISION - 4T QUARTER - 3	LENGTH FREQUENCY		AGE-LENGTH KEY																		TOTAL AGED		
	JUL	AUG	SEP	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		18	
33-			35																				3
36-	10		230																				4
39-	20		305																				5
42-	125		185																				5
45-	160		55																				5
48-	185		55																				6
51-	150		45																				4
54-	175		35																				6
57-	120		20																				4
60-	35		20																				1
63-	15		5																				2
66-	5		10																				2

TOTALS 1000 1000 5 18 11 13 4 51

NO. SAMP. 1
 NO. FISH 200
 MEAN L(MH) 508 427
 MEAN W(G) 1365 844
 DEPTH (M) 53- 53 69- 69
 AGE FREQUENCY (PER HILLE) JUL 31 341 294 215 117 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 998
 AUG 0
 SEP 0 0 179 588 139 64 30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1000

MEAN LENGTH AT AGE (MM) JUL 421 453 528 569 530
 AUG 0 0 389 406 472 587 523 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 SEP 0

TABLE 1. LIST OF VESSELS 50 GRT AND OVER FOR 1977 - Bulgaria

ROW NO.	VESSEL NAME	YEAR BUILT	GROSS REG. TON.	TOTAL LENGTH (M)	ENGINE HORSE-POWER	NATIONAL REGISTER NUMBER	RADIO CALL LETTERS	HOMER PORT	SONAR M V	NO. FISH IN MEAL CREW PLANT	GEAR TYPE	SUBAREAS FISHED	ROW NO.
1	ARTINIA	1974	2467	89	3600	197	LZSM	BS	X X	80	OTM2	56	1
2	ARGONAVT	1974	2467	89	3600	198	LZBN	BS	X X	80	OTM2	456	2
3	FLAMINGO	1969	2653	82	2320	169	LZRN	BS	X X	79	OTM2	2 4	3
4	KONDOR	1969	2653	82	2320	174	LZRV	BS	X X	79	OTM2	234	4
5	MELANITA	1969	2653	82	2320	181	LZRU	BS	X X	79	OTM2	2 4	5
6	JLUSHA	1968	2653	82	2320	167	LZRM	BS	X X	79	OTM2	2 4	6

TABLE 2. LIST OF VESSELS 50 GRT AND OVER FOR 1977 - Canada-MQ

ROW NO.	VESSEL NAME	YEAR BUILT	GROSS REG. TON.	TOTAL LENGTH (FT)	ENGINE HORSE-POWER	NATIONAL REGISTER NUMBER	RADIO CALL LETTERS	HOMER PORT	SONAR M V	NO. FISH IN MEAL CREW PLANT	GEAR TYPE	SUBAREAS FISHED	ROW NO.
1	A W HENDRIKSEN	1975	789	150	2400	348233	VC8335	CA	X	19	OTM2	34	1
2	ACADIAN PAL	1956	64	65	124	189381	VC3038	SB	X	8	DRB	45	2
3	ADVENTURE	1957	56	60	230	189049	VC3128	LK	X	5	SDN	4	3
4	ADVENTURER II	1970	259	110	1125	330643	VC7155	YA	X	15	DRB	45	4
5	ALAIN RICHARD	1963	67	65	325	320446	VC4542	SG	X	4	OTB1	4	5
6	ALBERTA R	1963	191	101	640	318925	VC4642	RI	X	17	DRB	345	6
7	ALICE AND RITA	1957	55	60	150	310537	VC3173	GL	X	5	SDN	4	7
8	ALLEN & BRIAN	1966	50	56	365	326891	VC6243	LT	X	3	OTB2	45	8
9	AMBASSADOR	1970	256	115	1125	330639	VC7156	YA	X	15	DRB	45	9
10	AMY USEN	1966	171	93	765	323544	VC5673	SO	X	10	OTB1	4	10
11	ANGELA MICHELLE	1972	194	102	850	346845	VC9086	LU	X	15	DRB	45	11
12	ANITA BERNARD	1969	130	85	565	329994	VC6764	LA	X X	5	OTB1	34	12
13	ANN C SPENCER	1963	310	129	770	318377	VC3837	PE	X	13	OTB1	34	13
14	ANNE JOLENE	1966	72	65	245	323827	VC5603	BI	X	5	LLS	34	14
15	ANNETTE MARIE	1963	163	98	640	320760	VC4810	LU	X	18	DRB	5	15
16	ANNIE REMI	1964	130	85	510	314678	LA	X	5	OTB1	4	16	
17	APOLLO III	1970	369	115	1125	344954	VC7221	CQ	X X	9	PS	4	17
18	ARTHUR ROSS	1957	54	60	227	310102	VC3226	PO	X	4	LLS	45	18
19	ATKINSON	1965	371	140	1250	326024	VC5387	RI	X	14	OTM2	2345	19
20	ATLANTIC GAIRDNER	1967	1444	200	2400	328305	CYPG	ST	X X	18	PS	6	20
21	ATLANTIC HAMKE	1967	1445	200	2400	328321	VGVO	ST	X X	18	PS	6	21
22	ATLANTIC J A G	1966	1441	200	2400	326443	VGGL	ST	X X	18	PS	6	22
23	ATLANTIC OCEAN MAID	1966	1440	200	2400	326428	VGJV	ST	X X	18	PS	6	23
24	ATLANTIC PATON	1966	1441	200	2400	328529	VGJV	ST	X X	18	PS	6	24
25	BARBARA JO	1955	121	94	115	198788	VC8896	SA	X	4	DRB	4	25
26	BARBARA LOUISE	1967	189	107	750	326140	VC6125	LU	X	17	DRB	45	26
27	BARBARA MARIE	1960	69	65	150	313396	VC9006	SO	X	4	OTB1	4	27
28	BARBARA M	1975	749	150	2400	370541	VC8346	CA	X	19	OTM2	34	28
29	BARBIE JO	1968	52	60	246	328709	CQ	X	4	FPO	4	29	
30	BAY CITY	1960	53	60	230	314287	VC7269	IN	X X	5	PS	45	30
31	BEAUSEJOUR II	1955	55	64	365	198453	VC3550	CQ	X	4	FPO	4	31
32	BEDEQUE	1968	511	130	1080	328833	VGKT	RI	X	15	OTM2	2345	32
33	BENRIC	1968	70	65	365	329023	VC8021	SA	X	4	OTB2	45	33
34	BETHUK	1953	85	65	205	195024	VC8862	YA	X	6	DRB	4	34
35	BEVERLY FAYE	1964	143	92	342	322324	VC4945	NW	X	8	LLS	34	35
36	BIBIANNE MARIE	1965	123	86	510	323749	VC5447	SH	X	5	OTB1	34	36
37	BICKERTON PRIDE	1965	283	120	720	323529	VC5386	BI	X	14	OTB1	45	37
38	BIENVENUE	1961	122	82	310	313943	VC4219	AA	X	5	OTB1	4	38
39	BLAINE AND GLENN	1958	66	62	230	310568	VC3287	TE	X	6	LLS	4	39
40	BLUE DAHN	1962	154	96	725	318908	VC4382	LU	X	18	DRB	5	40
41	BONNIE LOU II	1964	82	65	227	320640	VC4896	BI	X	4	SDN	4	41
42	BRADELLE	1967	123	87	510	328165	VC6384	RR	X X	5	OTB1	4	42
43	BRIA-BELLE	1962	53	50	220	319832	VC4669	CL	X	5	LLS	4	43
44	C A DENTON	1973	86	65	425	347273	VC9082	LT	X	4	OTB2	45	44
45	CANADA 100	1967	219	100	500	328939	VC6086	NO	X X	7	PS	34	45
46	CANADA CLUB	1969	477	135	750	330134	VC6721	NO	X X	9	PS	34	46
47	CANSO CONDOR	1967	684	152	2000	328049	VC6155	CA	X	15	OTM2	34	47
48	CANSO DART	1967	684	152	2000	328044	VC6157	CA	X	15	OTM2	34	48
49	CANSO LIGHT	1964	661	154	2160	322996	VC5039	CA	X	15	OTM2	34	49
50	CANSO MARINER	1967	685	152	2000	330112	VC6158	CA	X	15	OTM2	34	50
51	CAP AUX MEULES	1971	441	126	1125	331743	VC7381	CM	X X	12	OTM2	4	51
52	CAP NOIR	1965	50	60	220	322780	VC5528	RR	X	4	OTB1	4	52
53	CAP NORD	1964	65	65	335	322779	VC5001	RR	X	4	OTB1	4	53
54	CAP PELE	1975	84	65	480	347744	VA6777	RR	X X	4	OTB2	4	54
55	CAP RENARD	1967	67	65	325	328145	VC5898	RR	X	4	OTB1	4	55
56	CAPE ALERT	1966	618	155	1045	326068	VYNS	LU	X	16	OTM2	345	56
57	CAPE ANNE	1964	359	141	765	320550	VC4803	LO	X	14	OTB1	4	57
58	CAPE ARGOS	1968	628	155	1200	328640	VXLS	LU	X	18	OTM2	345	58
59	CAPE ASPY	1963	291	126	650	320507	VC4672	LU	X	18	OTB1	45	59
60	CAPE BAULD	1968	629	155	1200	328670	VGJZ	LU	X	18	OTM2	345	60

TABLE 5. FISHING EFFORT AND NOMINAL CATCHES BY DIVISION, MONTH, GEAR, MAIN SPECIES, TONNAGE CLASS AND COUNTRY - 1977.

																	METRIC TONS ROUND FRESH									
MON	GEAR	MAIN SPEC		TON	COUNTRY	FISHING EFFORT			COD	HAD	RED	MKS	HKR	POK	PLA	WIT	YEL	FLX	GRO	MER	MAC	PEL	VFF	INV	TOTAL	
		TON	COUNTRY			(C)	(B)	(A)																		
DIVISION OA																										
SEP	OTB1	PAN	4	NOR	-	24	236	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	50	
	OTB2	PAN	4	DEN=F	-	-	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5		
TOTAL																										
OCT	OTB1	PAN	4	NOR	-	35	449	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	99	99		
	OTB2	PAN	4	DEN=F	-	-	163	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37	37		
TOTAL																										
NOV	OTB1	PAN	4	NOR	-	1	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1		
	OTB2	PAN	4	DEN=F	-	-	450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	152	152		
	OTB2	PAN	4	DEN=M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	68	68		
TOTAL																										
DEC	OTM2	PAN	4	DEN=F	-	-	113	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45	45		
TOTAL																										
DIVISION OB																										
MAY	LLS	GHL	4	DEN=F	-	-	27	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	5	
TOTAL																										
JUN	LLS	GHL	4	DEN=F	-	-	697	-	-	-	-	-	-	-	-	-	-	168	-	-	-	-	-	-	168	
TOTAL																										
JUL	LLS	GHL	4	DEN=F	-	-	610	-	-	-	-	-	-	-	-	-	-	208	-	-	-	-	-	-	208	
TOTAL																										
AUG	OTB2	GRO	7	USSR	17	17	220	-	-	17	-	-	-	-	-	-	-	196	20	-	-	-	-	-	233	
	LLS	GHL	4	DEN=F	-	-	328	-	-	-	-	-	-	-	-	-	-	156	-	-	-	-	-	-	156	
TOTAL																										
SEP	OTB2	GHL	7	GDR	11	11	149	-	-	-	-	-	-	-	-	-	-	39	21	-	-	-	-	-	60	
	OTB2	GHL	5	GDR	10	10	126	-	-	-	-	-	-	-	-	-	-	39	20	-	-	-	-	-	59	
	OTB2	GRO	7	USSR	114	108	1419	-	-	119	-	-	-	-	-	-	-	955	616	-	-	-	-	-	1690	
	LLS	GHL	4	DEN=F	-	-	860	-	-	-	-	-	-	-	-	-	-	227	-	-	-	-	-	-	227	
TOTAL																										
OCT	OTB2	GHL	7	GDR	5	4	56	-	-	-	-	-	-	-	-	-	-	19	2	-	-	-	-	-	21	
	OTB2	GHL	5	GDR	5	5	79	-	-	-	-	-	-	-	-	-	-	31	-	-	-	-	-	-	31	
	OTB2	GRO	7	USSR	48	45	292	-	-	14	-	-	-	-	-	-	-	137	16	-	-	-	-	-	167	
	LLS	GHL	4	DEN=F	-	-	1078	-	-	-	-	-	-	-	-	-	-	166	-	-	-	-	-	-	166	
TOTAL																										
NOV	OTB2	GHL	7	GDR	2	1	6	-	-	-	-	-	-	-	-	-	-	6	-	-	-	-	-	-	6	
	OTB2	GHL	5	GDR	1	1	14	-	-	-	-	-	-	-	-	-	-	15	-	-	-	-	-	-	15	
	OTB2	GRO	7	USSR	84	82	1120	-	-	19	-	-	-	-	-	-	-	1236	18	-	-	-	-	-	1273	
TOTAL																										
DEC	OTB2	GHL	7	GDR	10	8	72	-	-	-	-	-	-	-	-	-	-	26	1	-	-	-	-	-	27	
	OTB2	GHL	5	GDR	18	16	160	-	-	-	-	-	-	-	-	-	-	65	3	-	-	-	-	-	68	
	OTB2	GRO	7	USSR	14	13	174	-	-	-	-	-	-	-	-	-	-	125	-	-	-	-	-	-	125	
	OTB2	GRO	6	USSR	16	14	186	-	-	-	-	-	-	-	-	-	-	318	4	-	-	-	-	-	322	
TOTAL																										
DIVISION 1A																										
JAN	OTB2	GRO	7	USSR	1	1	16	-	-	-	-	-	-	-	-	-	-	17	2	-	-	-	-	-	19	
	NK	MIX	2	DEN=G	-	-	-	2	-	-	-	-	-	-	-	-	-	54	3	-	-	-	-	228	287	
TOTAL																										
FEB	NK	MIX	2	DEN=G	-	-	-	1	-	-	-	-	-	-	-	-	-	365	9	-	-	-	-	-	81	456
TOTAL																										
MAR	NK	MIX	2	DEN=G	-	-	-	3	-	-	-	-	-	-	-	-	-	342	30	-	-	-	-	-	69	444
TOTAL																										
APR	NK	MIX	2	DEN=G	-	-	-	2	-	-	-	-	-	-	-	-	-	213	30	-	-	-	-	-	199	444
TOTAL																										
MAY	NK	MIX	2	DEN=G	-	-	-	1	-	-	-	-	-	-	-	-	-	370	9	-	-	-	-	-	1268	1648
TOTAL																										
JUN	GNS	COD	6	POR	-	8	181	73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	73	
	GNS	COD	5	POR	-	7	105	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54	
	NK	MIX	2	DEN=G	-	-	-	5	-	-	-	-	-	-	-	-	-	771	73	-	-	-	7	1215	2071	
TOTAL																										