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ANNUAL MEETING - JUNE, 1963

A REPORT ON THE PRESENT STATUS OF THE PROCESSING OF STATISTICS
BY THE ICNAF SECRETARIAT

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1. STATISTICAL BULLETIN VOLUME 11 FOR THE YEAR 1961

AT THE 1962 ANNUAL MEETING THE WORKING GROUP ON THE STATISTICAL BULLETIN UNDERTOOK A COMPREHENSIVE STUDY OF THE CONTENT AND FORMAT OF THE BULLETIN IN RELATION TO PRESENT AND FUTURE REQUIREMENTS AND RECOMMENDED CERTAIN CHANGES WHICH WOULD REDUCE THE NUMBER OF TABLES FROM NINE TO FIVE. THE SECRETARIAT UNDERTOOK TO IMPLEMENT THESE CHANGES IMMEDIATELY AND THE VOLUME 11 OF THE STATISTICAL BULLETIN WILL BE PUBLISHED WITH THE FIVE TABLES AS RECOMMENDED.

THE SECRETARIAT WAS DELAYED SOMEWHAT IN THE COMMENCEMENT OF THIS VOLUME SINCE ALL STATISTICAL SUBMISSIONS FOR THE YEAR 1961 HAD NOT BEEN RECEIVED UNTIL DECEMBER 10, 1962.

THE VOLUME 11 OF THE STATISTICAL BULLETIN IS NOW COMPILED AND EDITED WITH THE EXCEPTION OF TABLE 1. AT THE 1962 ANNUAL MEETING IT WAS RECOMMENDED THAT TABLE 1 BE EXTENDED TO INCLUDE ALL SPECIES AS LISTED IN FORMER TABLE 7. AT A RECENT MEETING WITH THE CHAIRMAN OF THE STATISTICS SUBCOMMITTEE IT WAS DECIDED THAT THIS RECOMMENDATION SHOULD COME UP FOR FURTHER STUDY AT THIS ANNUAL MEETING.

2. ICNAF STATISTICAL FORMS

AT THE LAST ANNUAL MEETING THE SUBCOMMITTEE ALSO REVIEWED THE FORMS OF ICNAF AND MADE CERTAIN RECOMMENDATIONS IN THE LIGHT OF THE PROPOSED CHANGES IN THE STATISTICAL BULLETIN. THE SECRETARIAT WITH THE CO-OPERATION OF THE CHAIRMAN OF THE STATISTICS SUBCOMMITTEE HAS EFFECTED THESE CHANGES AND WITH THE REQUEST FOR 1962 STATISTICS THE REVISED FORMS (STATISTICS 1, 2, AND 3) WERE PUT INTO CIRCULATION. A NEW FORM ICNAF STATISTICS 4 (STATISTICS ON DISCARD AND INDUSTRIAL FISH) WAS ALSO CIRCULATED IN 1962. THIS FORM IS TO BE USED FOR THE FISHING YEAR 1963 AND IS TO BE REPORTED UPON AT THE 1964 ANNUAL MEETING. (COPIES OF THESE FORMS ARE APPENDED TO DOCUMENT No. 4).

3. SAMPLING YEARBOOK VOLUME 6 FOR THE YEAR 1961

IN PREVIOUS ISSUES OF THE SAMPLING YEARBOOK, IT HAD BEEN THE PRACTICE OF THE COMMISSION TO PUBLISH ALL DATA FOR LENGTH FREQUENCIES, AGE FREQUENCIES AND AGE/LENGTH KEYS OR FREQUENCIES, BUT WITH THE INCREASE IN THE AMOUNT OF SAMPLING DATA, SUBMITTED BY COUNTRIES, THE SAMPLING YEARBOOK HAS GROWN EXTENSIVELY IN SIZE AND IT WAS THEREFORE RECOMMENDED BY THE SUBCOMMITTEE THAT AGE/LENGTH KEYS AND FREQUENCIES BE NOT PUBLISHED. THESE HAVE BEEN DEPOSITED WITH THE SECRETARIAT AND WILL BE MADE AVAILABLE IN MIMEOGRAPHED FORM TO WORKING GROUPS AND INDIVIDUALS ON REQUEST. THE AVAILABLE DATA BY SPECIES IS PUBLISHED IN TABLE FORM IN ITS APPLICABLE SECTION IN THE VOLUME.

A FURTHER DEVIATION IN THE PRESENTATION OF TABLES IN THE SAMPLING YEARBOOK, FROM THAT OF PREVIOUS YEARS, HAS COME ABOUT AS THE RESULT OF A RECOMMENDATION MADE BY THE COMMISSION IN 1961, THAT THE ORDER OF

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3. SAMPLING YEARBOOK VOLUME 6 FOR THE YEAR 1961 (CONT'D)

BREAK-DOWN SHOULD BE: SPECIES, AREA, GEAR, MONTH, COUNTRY. THIS SHOULD GREATLY FACILITATE THE USE OF THE PUBLICATION BY BRINGING IT MORE IN LINE WITH THE ORDER FOUND IN THE STATISTICAL BULLETIN.

THE SAMPLING YEARBOOK, VOLUME 6 FOR THE YEAR 1961, INCORPORATING THE ABOVE RECOMMENDATIONS REPORTING ON COD, HADDOCK, REDFISH, AMERICAN PLAICE, WINTER FLOUNDER, POLLOCK, WHITE HAKE AND CUSK WAS DISTRIBUTED IN MAY OF THIS YEAR.

4. OTOLITH EXCHANGE PROGRAMMES

IN ACCORDANCE WITH THE COMMISSION'S DECISION AT THE 1961 ANNUAL MEETING, COD AND REDFISH OTOLITH EXCHANGE PROGRAMMES, WITH REFERENCE TO SPAWNING ZONES, WERE INITIATED EARLY IN 1962 WITH THE RESULT THAT 16 COD SAMPLES AND 8 REDFISH SAMPLES ARE NOW IN CIRCULATION BETWEEN INTERESTED COUNTRIES.

SINCE ALL COD AND REDFISH SAMPLES HAVE NOT YET BEEN FULLY CIRCULATED TO THE PARTICIPATING COUNTRIES, IT WOULD UNDOUBTEDLY PREJUDICE THE READINGS OF OTHERS IF PART OF THIS SURVEY SHOULD NOW BE PUBLISHED. IT IS REGRETTABLE THAT THE CIRCULATION OF THESE SAMPLES HAS NOT BEEN AS EXPEDIENT AS HAD BEEN ANTICIPATED EARLIER.

SAMPLES FROM THE HALIBUT OTOLITH EXCHANGE PROGRAMME WHICH WAS INITIATED FOLLOWING THE DECISION MADE AT THE 1959 ANNUAL MEETING WERE FULLY CIRCULATED AMONGST THE INTERESTED MEMBER COUNTRIES AND WAS REPORTED IN A DOCUMENT IN JUNE, 1962. SINCE THAT TIME THE INTERNATIONAL PACIFIC HALIBUT COMMISSION HAS CO-OPERATED IN THIS PROGRAMME BY READING THE FOUR SAMPLES PREVIOUSLY CIRCULATED. THE RESULT OF THESE READINGS HAS BEEN INCORPORATED INTO THE ORIGINAL DOCUMENT AND WAS RE-DISTRIBUTED IN OCTOBER, 1962. THE INTERNATIONAL PACIFIC HALIBUT COMMISSION HAS FURTHER CO-OPERATED BY PROVIDING A SAMPLE FROM THEIR LABORATORY AND THIS IS CURRENTLY BEING CIRCULATED AMONGST THE INTERESTED SCIENTISTS OF THREE MEMBER COUNTRIES.

5. DISCARDS

IN ORDER TO ENSURE THE COLLECTION OF TOTAL CATCH STATISTICS, AND IN ANTICIPATION OF FUTURE TRENDS IN THE FISHERIES, IT IS CONSIDERED THAT DATA ON INDUSTRIAL FISH, SUCH AS FISH MEAL, ARE REQUIRED IN ADDITION TO DISCARD DATA, BY SPECIES AND DIVISIONS. SUCH STATISTICS SHOULD EVENTUALLY APPEAR IN THE STATISTICAL BULLETIN TO PROVIDE A COMPLETE RECORD OF CATCHES RATHER THAN OF LANDINGS ONLY. THE REVISED STATISTICS 4 FORM HAS BEEN CIRCULATED FOR USE IN THE YEAR 1963 AND TO BE REPORTED UPON IN 1964. HOWEVER, SOME MEMBER COUNTRIES HAVE SUBMITTED DATA FOR 1962 AND THESE HAVE BEEN CIRCULATED AS 1963 ANNUAL MEETING DOCUMENTS.

6. REDFISH DEPTH ZONES

ALL MEMBER COUNTRIES HAVE BEEN REQUESTED TO SAMPLE THEIR 1962 REDFISH STATISTICS IN AN ATTEMPT TO REPORT THE DISTRIBUTION OF REDFISH EFFORT IN SIX DEPTH ZONES FROM 51-350 FATHOMS FOR EACH GEAR, DIVISION AND MONTH. THESE REPLIES HAVE BEEN CIRCULATED AS 1963 ANNUAL MEETING DOCUMENTS.

7. DORY HOURS

AT THE ANNUAL MEETING IN MOSCOW IN JUNE, 1962, THE STATISTICS SUBCOMMITTEE BROUGHT TO THE ATTENTION OF THOSE COUNTRIES CONCERNED AN APPARENT MISINTERPRETATION OF THE EFFORT CATEGORY "DORY HOURS". THE COMMITTEE DEFINED THIS TERM AS THE PRODUCT OF "NUMBER OF HOURS THE DORY FLEET IS ABSENT FROM MOTHER VESSEL TIMES NUMBER OF DORIES" AND PROPOSED THAT PAST STATISTICS SHOULD ACCORDINGLY BE REVIEWED WITH THE OBJECTIVE THAT THOSE COUNTRIES WHO REPORTED ONLY THE "NUMBER OF HOURS THE DORY FLEET IS ABSENT FROM

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7. DORY HOURS (CONT'D)

THE MOTHER VESSEL" BE REQUIRED TO WEIGHT THOSE FIGURES BY THE NUMBER OF DORIES. THE SECRETARIAT IS PLEASED TO REPORT THAT PORTUGAL HAS CO-OPERATED EXTENSIVELY IN THIS MANNER BY PROVIDING THE COMMISSION WITH REVISED STATISTICS FOR THE YEARS 1956-62 (INCLUSIVE). THESE HAVE BEEN REPRODUCED AS 1963 ANNUAL MEETING DOCUMENTS NUMBERS 6 AND 27. THE SECRETARIAT IS PROPOSING TO PUBLISH THESE DOCUMENTS AS APPENDICES TO VOLUMES 11 AND 12 (RESPECTIVELY) OF THE STATISTICAL BULLETIN.

8. LANDINGS FROM THE CONVENTION AREA IN 1962

A TABULATION ON GROUND FISH AND HERRING LANDINGS FROM THE CONVENTION AREA IN 1962 ARRANGED BY SPECIES, COUNTRIES AND DIVISIONS IS WELL UNDER WAY AND WILL BE ISSUED AS AN ANNUAL MEETING DOCUMENT IN THE EARLY STAGES OF THE MEETING. AT THE REQUEST OF ONE OF THE MEMBER COUNTRIES THE SPECIES HERRING HAS BEEN ADDED TO THIS MEETING DOCUMENT WHICH IN EARLIER YEARS REPORTED UPON GROUND FISH SPECIES ONLY.

9. PRELIMINARY STATISTICAL RELEASES

SINCE THE LAST ANNUAL MEETING, THE SECRETARIAT HAS BEEN GIVING SOME THOUGHT CONCERNING THE RELEASE OF MIMEOGRAPHED STATISTICAL TABLES IN ADVANCE OF THE PUBLICATION OF THE STATISTICAL BULLETIN WHICH COMES OUT TWO YEARS FOLLOWING THE COMPLETION OF A YEAR'S FISHING. AS STATED IN DOCUMENT NO. 4, THE SECRETARIAT PREPARES THE TABLES FOR THE STATISTICAL BULLETIN IN DRAFT FORM WHICH GO DIRECTLY TO THE PRINTER FOR SET-UP; THESE DRAFT TABLES ARE HELD AT THE SECRETARIAT UNTIL THE BULLETIN IS READY, IN ITS ENTIRETY, FOR PRINTING. CERTAIN OF THESE TABLES COULD BE REPRODUCED, INTACT, IN MULTIPLE COPIES FOR IMMEDIATE DISTRIBUTION TO MEMBER COUNTRIES AT RELATIVELY LITTLE COST.

THE CANADIAN GOVERNMENT HAS GRATEFULLY GRANTED THE COMMISSION THE FACILITIES OF ITS QUEEN'S PRINTER WHICH WILL DO THIS WORK AT COST PRICE. TO PHOTOGRAPH, AND RUN 1,000 SINGLE SHEETS (12" X 18 $\frac{1}{2}$ ") PRINTED ON ONE SIDE ONLY, IT WOULD COST \$10.50. TO XEROX AND RUN 1,000 SINGLE SHEETS (8 $\frac{1}{2}$ " X 14") PRINTED ONE SIDE ONLY, IT WOULD COST ABOUT \$4.50. IN ADDITION TO THIS THERE IS GATHERING (2,350 SHEETS PER HOUR AT \$3.30) AND STITCHING (750 STITCHES FOR \$3.30). FOR EXAMPLE TO REPRODUCE 1,000 COPIES OF TABLE 3, BY A PHOTOGRAPHIC PROCESS, IN THE ACTUAL SIZE OF THE DRAFT WORK SHEETS PREPARED BY THE SECRETARIAT (WHICH ARE 12 X 18 $\frac{1}{2}$ INCHES), IT WOULD COST THE COMMISSION ABOUT \$35.00, WHICH INCLUDES PHOTOGRAPHY, RUNNING, COST OF PAPER, GATHERING AND STITCHING. THESE, THE LARGER SHEETS, ARE APPENDED FOR YOUR REVIEW. HOWEVER, THE SECRETARIAT IS OF THE OPINION THAT THESE SAME 12" X 18 $\frac{1}{2}$ " DRAFT SHEETS IF REDUCED TO 8 $\frac{1}{2}$ " X 14" BY A XEROX PROCESS ARE STILL QUITE LEGIBLE AND COULD BE REPRODUCED IN 1,000 COPIES FOR ABOUT \$20.00. THESE, THE SMALLER SHEETS, ARE ALSO APPENDED FOR YOUR REVIEW.

THE QUESTION WITH WHICH THE COMMISSION IS CONFRONTED IS NOT SO MUCH THE COST OR LEGIBILITY OF THE TABLES BUT WITH WHICH TABLE OR TABLES SHOULD WE CONSIDER REPRODUCING. THE SECRETARIAT IN PREPARING THE STATISTICAL BULLETIN STARTS OUT BY COMPILING A SUB-TABLE 3 FOR EACH COUNTRY, WHICH IS EVENTUALLY AMALGAMATED INTO THE MASTER-TABLE 3 ONCE ALL STATISTICAL SUBMISSIONS HAVE BEEN RECEIVED. FOLLOWING THIS, TABLE 5 IS SET UP IN STAGES BY COUNTRY (AS SUBMISSIONS COME IN). ONCE ALL STATISTICAL SUBMISSIONS HAVE BEEN RECEIVED THE SECRETARIAT CAN COMMENCE EITHER TABLES 1 OR 4. IT IS NOT PRACTICAL TO PREPARE TABLE 2 UNTIL TABLE 4 HAS BEEN COMPLETED SINCE IT IS DERIVED FROM THE LATTER. IN OTHER WORDS, EITHER TABLES 1, 3 OR 5 COULD BE PREPARED VERY SOON AFTER ALL STATISTICAL SUBMISSIONS HAVE BEEN RECEIVED. TABLE 4 IS THE BIG STATISTICAL OPERATION OF THE SECRETARIAT AND COULD BE LEFT UNTIL TABLES 1, 3 AND 5 HAVE BEEN COMPLETED UNLESS THERE IS A SPECIAL REQUEST FROM THE ASSESSMENT GROUP FOR ABSTRACTS FOR CERTAIN STATISTICAL DIVISIONS FROM THIS TABLE 4.

TABLE 3. LANDINGS BY SPECIES AND SUBAREA-1961
Landings in Metric Tons Round Fresh

SPECIES	SUBAREAS						TOTAL
	1	2	3	4	5	NK	
Cod	345,391	264,985	460,646	212,040	17,965	3,414	1,304,441
Haddock	665	42	79,654	46,897	51,870	355	179,483
Redfish	54,418	25,594	89,920	41,875	14,076	29	225,912
Halibut (1)	831	122	2,377	2,358	84	21	5,843
Flounders	-	-	-	-	-	-	-
Greenland Halibut	1,402	-	758	-	-	-	2,158
American Plaice	-	-	17,938	9,228	1,522	-	28,688
Witch	-	32	5,875	8,588	11,024	-	15,523
Yellowtail	-	-	151	2,919	16,626	-	19,696
Winter Flounder	-	-	57	2,440	7,824	-	10,321
Fluke	-	-	-	-	2,125	-	2,125
Flounder (not specified)	-	1,036	5,192	3,281	3	-	10,012
Total Flounder	1,402	1,072	29,969	26,956	29,124	-	88,523
Other Groundfish							
Dogfish	25	-	-	-	438	-	463
Skates and Rays (not specified)	2	1	137	112	15	-	267
Scup	-	-	-	-	3,953	-	3,953
Tautog	-	-	-	-	34	-	34
Sea Robin	-	-	-	-	86	-	86
Teleost	-	-	-	-	299	-	299
Wallfish (not specified)	5,623	191	871	1,577	215	-	8,277
Eelpout	-	-	8	-	1	-	9
Pollack	430	-	3,305	29,368	8,219	30	41,352
Silver Hake	-	-	-	2	42,517	-	42,519
White Hake	-	-	71	198	2,250	-	2,519
Red Hake	-	-	-	24	3,244	-	3,268
Hake (not specified)	-	-	273	8,561	3	-	8,837
Cusk	259	-	87	3,302	726	-	4,374
Ling	3	-	1	-	-	-	4
Anchovy	-	-	-	-	3	-	3
Sand Eel	-	-	-	-	88	-	88
Tomcod	-	-	-	400	-	-	400
Lumpfish	-	-	-	12	-	-	12
Gravid fish (not specified) (fod)	-	-	11	9	2,729	-	2,749
Groundfish (not specified) (industrial)	4,554	1,109	1,095	1	21,853	-	28,612
Groundfish (not specified)	576	2,920	5,289	1,730	543	-	11,058
Total other fish	11,472	4,221	10,948	45,296	87,216	30	159,183
Pelagic Fish							
Sharks (2)	255	27	162	23	150	1,509	2,126
Herring	-	-	4,058	81,128	94,143	-	179,329
Menhaden	-	-	-	-	12,960	-	12,960
Mackerel	-	-	1,021	4,446	1,027	-	6,494
Tuna	-	-	-	40	1,070	-	1,110
Sardines	-	-	-	-	21	-	21
Swordfish	-	-	105	1,289	829	-	2,223
Bluefish	-	-	-	-	29	-	29
Butterfish	-	-	-	-	559	-	559
Billfish	-	-	44	-	-	-	44
Anchovy	-	-	-	-	9	-	9
Pelagic Fish (not specified)	-	-	-	-	378	-	480
Total pelagic fish	255	27	5,390	87,028	111,175	1,509	205,384

TABLE 3 (Cont'd)

SPECIES	SUBAREAS						
	1	2	3	4	5	NK	TOTAL
Other Fish							
Sturgeon	-	-	-	15	2	-	17
Eschscholtz	-	-	-	243	26	-	269
Shad	-	-	-	3,052	10,205	-	13,257
Salmon	-	-	-	278	38	-	316
Trout	-	415	408	746	-	-	1,569
Smelt	-	130	36	150	-	-	316
Cape May	-	-	-	813	62	-	875
Sea Basses	-	-	4,683	264	-	-	5,247
Total Other fish	-	545	5,127	5,886	10,609	-	22,167
Shellfish, etc							
Squid	-	-	8,976	48	483	-	9,507
Star Clam	-	-	-	100	-	-	100
Hard Clam	-	-	-	-	14,205	-	14,205
Razor Clam	-	-	-	-	51	-	51
Soft Clam	-	-	-	-	43	-	43
Quahog	-	-	-	825	4,529	-	5,354
Mussel	-	-	-	77	-	-	77
Oyster	-	-	1	79	1,154	-	1,234
Sea Scallop	-	-	-	1838	390	-	2,228
Bay Scallop	-	-	-	-	89,795	-	89,795
Scallops (not specified)	-	-	-	-	2,173	-	2,173
Cancer	-	-	-	2,827	37,889	-	40,716
Periwinkle	-	-	-	-	16	-	16
Loabster	-	-	-	72	64	-	136
Crabs	-	-	1,115	15,031	11,169	-	27,315
Prawns	2,545	-	-	26	809	-	835
Molluscs (not specified)	-	-	-	-	34	-	2,579
Sea Urchins	-	-	-	-	445	-	445
Sea Weed	-	-	-	-	34	-	34
Worms	-	-	-	8,780	3,173	-	11,953
Total Shellfish, etc	2,545	-	10,092	29,726	167,039	-	209,402
TOTAL ALL SPECIES	114,479	296,658	644,123	498,062	489,158	5,358	2,400,338

(1) A small portion of Ground Halibut which was landed by Sermony is included with Halibut for subareas 2 and 3.

(2) Porbeagle is included with sharks.