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### SCIENTIFIC COUNCIL MEETING - JUNE 1987

### Synopsis of Scientific Council Requirements for Fishery Statistics

bу

### NAFO Secretariat

### RESUMÉ

Article VI(1) of the NAFO Convention outlines the functions of the Scientific Council, which include the provision of scientific advice to coastal states and to the Fisheries Commission. Article VI(3) then states that "the Contracting Parties shall furnish to the Scientific Council any available statistical and scientific information requested by the Council for the purposes of this Article.

Article VI(3) of the earlier (1949) ICNAF Convention contained essentially the same wording as Article VI(3) of the NAFO Convention. At its Meeting in 1960, the ICNAF Standing Committee on Research and Statistics (STACRES) recommended "that ICNAF use the definitions, classifications and prescribed forms that were recommended by ESTANA" (FAO/ICES/ICNAF Statistics Meeting, Edinburgh, Scotland, September 1959). Over the years, these forms (STANA forms) were further developed in accordance with recommendations by STACRES and they became known as STATLANT 21A and 21B forms in 1971. The STATLANT system of reporting was taken over by NAFO upon its formation in 1979 as being the basic forms for the reporting of catch and effort statistics in the Convention Area.

The <u>STATLANT 21A</u> form is for the early reporting of provisional nominal catches by species and NAFO division (or subdivision) for the calendar year, with a submission deadline of <u>15 April</u> for the preceding year's data.

The STATLANT 21B form is for the reporting of final statistics of nominal catches and the corresponding fishing effort. The data should cover the total fishing activity and should provide a breakdown by species, month, fishing gear, vessel type and size, main species sought, and NAFO divisions (or subdivision). The categories to be used for each of these elements are indicated in the notes for completion of the forms, which should be submitted to the NAFO Secretariat by 30 June for the preceding year's data.

The Scientific Council emphasizes that the timely and complete submission of STATLANT 21A and 21B forms by the statistical services of Contracting Parties constitutes an essential element in the assessment of the fisheries of the Convention Area.

### Introduction

At its meeting in June 1986 (NAFO, 1986), the Scientific Council recognized the need of national authorities for complete and precise knowledge of their obligations under the NAFO Convention (NAFO, 1980) and requested the Secretariat to prepare a document, for consideration at the June 1987 Meeting, on the catch and fishing effort statistics to be submitted by Contracting Parties in accordance with Article VI(3) of the Convention, which states that "the Contracting Parties shall funish to the Scientific Council any available statistical and scientific information requested by the Council for the purpose of this Article. The full text of Article VI of the NAFO Convention is at Attachment 1.

Further elaboration of statistical matters is given in Rule 5 of the Scientific Council's Rules of Procedure (NAFO, MS 1986), which specifies the names of its standing committees, one of which is the Standing Committee on Research Coordination (STACREC). The various functions of that Committee include two which are related to the acquisition of fishery statistics: (i) to develop and recommend to the Scientific Council policies and procedures for the collection, compilation and dissemination of statistical and sampling information on the living resources and fisheries of the Convention Area and maintenance of statistics and records and their dissemination, including liaison with coastal states in the Convention Area.

The above-noted citations emphasize the importance of fishery statistics to the work of the Scientific Council and provide the basis for the maintenance of a comprehensive system by the NAFO Secretariat for the acquisition, compilation and dissemination of fishery statistics in as much detail as is required by the Scientific Council.

### Evolution of the Statistical System

At the very first Annual Meeting of ICNAF in April 1951, the Standing Committee on Research and Statistics (STACRES) recommended some minimal requirements for the collection and reporting of basic fishery statistics, involving both the quantities of different species landed and the corresponding fishing effort in terms of number of days absent from port and number of days actually spent fishing (ICNAF, 1951). Further recommendations involved the establishment of liaison with statistical officers in all countries fishing in the Convention Area and with FAO and ICES to determine the adequacy of the statistics and the problems involved in improving them.

The present system of acquiring fishery statistics rapidly evolved from these first meager recommendations, following the breakdown of the Convention Area and its subareas into divisions and subdivisions, the development of fishing effort measures for the various gears used in the offshore fisheries (vessels larger than 50 GRT), the classification of fishing vessels into tonnage classes, the development of a comprehensive list of species which are caught commercially in the Northwest Atlantic, and the requirements for reporting monthly catch and effort statistics. A very significant development during the 1950's was the collection of data for facilitate the conversion of landed weights to nominal catches (i.e. whole weight equivalent of the landings).

The need for standardization of fisheries terminology and procedures was recognized in the 1950's, and FAO convened an inter-governmental meeting of experts on fishery statistics in the North Atlantic (FAO, 1962). That conference led to the formation of the CWP (Continuing Working Party on Fishery Statistics in the North Atlantic Area) which held its first meeting in May 1960 and its second meeting in June 1961. Founding inter-governmental organizations were FAO, ICES and ICNAF. On the basis of the statistical requirements of these organizations, standardized statistical forms (called STANA forms) were developed for collecting fishery statistics, and the STANA 1W form was adopted by ICNAF in 1963 (see Attachment 2), following which use of the various ICNAF forms were discontinued.

When participation in the CWP (renamed Coordinating Working Party on Atlantic Fishery Statistics) was expanded to include organizations responsible for fishery statistics in the Central and South Atlantic regions in 1969 (FAO, 1969), the statistical forms became known as STATLANT forms, which for ICNAF were called STATLANT 21 forms because the Northwest Atlantic region was designated as FAO Major Fishing Area 21. For comparison with the earlier STANA 1W form, a reduced verion of a STATLANT 21B form is at Attachment 3 (actual size of form is 42 cm high and 36.5 cm wide). Apart from the preprinted species names and codes in the left most columns of the current 21B form (in use since about 1971), its general layout is essentially the same as the old STANA 1W form (Attachment 2), which came into use for the reporting of detailed catch and effort data nearly 25 years ago.

### Requirements for Statistical Reporting

The Scientific Council has continued to support the procedures for acquiring Northwest Atlantic fishery statistics through the STATLANT System which was inherited from ICNAF in 1979. The system is coordinated by the Senior Fishery Statistican, FAO Fisheries Department, who acts as Secretary of the CWP and dispatches STATLANT forms for NAFO and other CWP member agencies (ICES, ICSEAF, ICCAF, etc.). The NAFO forms are dispatched early in the year to the statistical offices of all countries known to have fished in the Northwest Atlantic during the preceding calendar year. The basic NAFO forms, known as STATLANT 21A and STATLANT 21B, are printed in English, but detailed guidelines for completing the forms are distributed in English, French or Spanish, depending on their distination. Notes on the completion of STATLANT 21A and 21B forms are given in Attachments 4 and 5 respectively.

### 1. STATLANT 21A (Annual Catch Summary)

This form, or similar format, was designed for use in the reporting of provisional nominal catches (i.e. live weight equivalent of landings, in metric tons) by species and NAFO division (or subdivision, where relevant) for the calendar year. The deadline for the submission of these provisional reports by national statistical officers is 15 April of each year for the preceding year's data. These data represent the initial inventory of nominal catches for use by the Standing Committee on Fishery Science (STACFIS) for stock assessments at the June Meeting of the Scientific Council and to allow early evaluation of fishery trends relative to the catches of individual species and groups of species on an annual basis.

The early deadline of 15 April is intended to provide sufficient time for the STATLANT 21A reports to reach the Secretariat before the June Meeting of the Scientific Council so that a reasonably complete inventory of the preceding year's catches would be available at the start of the meeting. Although the preparation of this inventory as a summary document for the June Meeting was consistently achieved during the 1970's of the ICNAF regime, based on the timely submission of STATLANT 21A reports, it was not achieved during the early years of the NAFO regime due to a rapid deterioration in the timely submission of reports, despite the fact that there was no change in the reporting requirements or the submission deadline. As indicated in Table 1, many STATLANT 21A reports were not available at the end of May and some were not received for several months afterwards in 1983 and 1984. There has been considerable improvement in the acquisition of

data for 1985 and 1986, with data for most countries being available before the end of the meeting (if not before its start).

Table 1. Receipt dates of STATLANT 21A reports relevant to data for 1983-86.

Country or			STAT	FLANT	21A (D	eadline	, 15 April)		
Component	1	983		1984			1985		1986
Bulgaria	(No f	ishing)	(No	fish	ing)	(No	fishing)	(No	fishing)
Canada-M	03 A	pr 84	04	Apr	85	09	Apr 86	16	Apr 87
Canada-N	17 A	pr 84	03	Jun	85*	28	May 86	15	May 87
Canada-Q	30 A	pr 84	24	May	85	16	May 86	27	Apr 87
Cuba	06 J	un 84*	17	May	85	10	Apr 86	05	Jun 87*
+Denmark	12 A	pr 84	17	Apr	85	16	Apr 86	26	May 87
+France	06 J	un 84*	25	Nov	85*	02	Jun 86*	10	Jun 87*
+Germany, F. R.	14 M	ay 84	15	Apr	85	21	Apr 86	03	Jun 87*
+Italy	18 F	eb 85*		X	*		х *		х *
+Portugal	22 M	ay 84	07	Jun	85*	07	Jun 86*	03	Jun 87*
+Spain	01 J	un 84*	24	Jun	85*	05	May 86	02	Jun 87*
+United Kingdom	08 M	ar 85*	24	Jun	85*	(No	fishing)	(No	fishing)
Faroe Islands	07 J	un 84*	20	Jun	85*	05	Mar 87*		Mar 87
German Dem. Rep.	19 A	pr. 84	27	Mar	85	04	Apr 86	04	May 87
Greenland	01 J	un 84*	13	Apr	85	04	Jun 86*	29	Apr 87
Iceland	(No f	ishing)	(No	fish	ing)	(No	fishing)	(No	fishing
Japan	18 M	ay 84	23	May	85	11	Jun 86*	14	May 87
Norway	08 J	un 84*	07	Jul	85*	14	Apr 86	. 10	Mar 87
Poland	27 J	ul 84*	13	Aug	85*	05	May 86	29	May 87
Romania	(No f	ishing)	(No	fish	ing)	(No	fishing)	(No	fishing
USSR	30 A	pr 84	22	May	85	28	Apr 86	06	May 87
USA	06 J	un 84*	20	Jun	85*	28	May 86	01	Jun 87
Total reports		22		22			22		22
Rec'd by 31 May		12		12			16		16
Time after 31 May	9	mo.		6 mo		-	ll days		10 days

<sup>\*</sup> Report not available by 31 May despite the 15 April deadline.

### STATLANT 21B (Detailed Catch and Effort)

This form, or similar format, was designed for use in the reporting of final statistics of nominal catches (i.e. live weight equivalent of the landings, in metric tons) and corresponding fishing effort, in accordance with the degree of detail given in the headings of the 21B form and the Notes for the completion of the form (see Attachment 5). The deadline for the submission of these final STATLANT 21B reports by statistical offices is 30 June of each year for the preceding year's data. These statistics represent the final catch and effort data which are entered into the Secretariat's computerized database and subsequently used to generate the various tables of NAFO Statistical Bulletin as well as for stock assessments and other purposes. The Statistical Bulletin was published annually under the aegis of ICNAF for 28 years (1951-78) and of NAFO since 1979 (Vol. 29).

The fishery statistics to be recorded on STATLANT 21B forms (or in STATLANT 21B format) are two or three levels of fishing effort and nominal catches of individual species items by calendar month for each type of fishing gear, vessel type (side or stern for trawlers), tonnage category, main species, and NAFO division (and subdivision, where relevant). Thus, it is clearly evident that the number of sheets (or blocks of statistical data, in the case of computer printout or magnetic tape) to be reported depends on the permutation of variables pertinent to vessel type and size, gear, main species, division fished, etc.

To facilitate the standardized reporting of fishery statistics to the various international organizations (ICES, ICSEAF, NAFO, FAO, etc.), standard classifications of the various statistical parameters (definitions, abbreviations and identifiers) have been developed by the CWP and adopted by these international organizations. In addition to being listed in the notes for completing the STATLANT forms, the lists of standard definitions and abbreviations, which are relevant to the Northwest Atlantic region, are updated and published annually in NAFO Statistical Bulletin (pages 9-16). These lists include: (a) common and scientific 3-alpha identifiers; (b) definitions and abbreviations for about 40 gear categories; (c) fishing effort measures and their definitions for different gear categories; (d) tommage classes and their codes; and (e) standard 3-alpha abbreviations for countries. All of these statistical classifications were in regular use during the last 10-15 years of the ICNAF regime and have been used by NAFO since 1979.

During the ICNAF regime in the 1970's, the 30 June deadline for the submission of STATLANT 21B

catch and effort data usually resulted in the acquisition and compilation of all data in sufficient time to publish the Statistical Bulletin within 6-8 months after the deadline (i.e. data for 1975 were published in January 1977). However, during the NAFO regime, the Secretariat have found it increasingly difficult to acquire and publish the fishery statistics within a reasonable time period after the deadline, the delay being usually 15-18 months (i.e. data for 1984 should ahve been published by January 1986 but were not published until December 1986). The recent delays are usually due to the non-receipt of STATLANT 21B statistical reports from two or three countries, whose statistical officers do not respond to periodic reminders by letter and telex for as long as 12 months after the deadline.

### Fishery Statistics from Cooperative Arrangements

Following the extension of jurisdiction over fishery resources to 200 miles by coastal states in 1977, the development of cooperative arrangements between coastal states and several countries resulted in confusion regarding responsibility for reporting fishery statistics accruing from such arrangements. Problems associated by double-counting and undercounting of catches were anticipated and discussed at the 9th Session of the CWP in August 1977 (FAO, 1977) when it was agreed that in all instances the flag of the (fishing) vessel should be the determining feature that establishes the country to whose national production the catches and landings should be allocated, regardless of fishing area or point of landing, and that this policy should only be overriden when it is obvious that the wording of charting and joint operation contracts indicate otherwise. Further discussion of this matter at subsequent sessions of the CWP has led to some clarification of the nationality issues. In the report of the 13th Session of the CWP at FAO, Rome, Italy, on 11-18 February (FAO, 1987), the principle was defined as follows:

"The flag of the vessel performing the essential part of the operation catching the fish should be considered the paramount indication of the nationality assigned to the catch data, and that indication should be overriden only when one of the following arrangements between the foreign flag vessel and the host country exists: (a) the vessel is chartered by the host country to augment its fishing fleet; and (b) the vessel fishes for the country by joint-venture contract or similar agreement (as opposed to the <u>ad hoc</u> practice of a vessel selling catches to a foreign vessel or landing catches in a foreign port) and the operation of such a vessel is an integral part of the economy of the host country.

"When governments negotiate joint venture or other contracts in which vessels of one country land their catches to vessels of another country, and the above criteria are applicable, the assignment of nationality to such catches and landings data should be specified in the agreements."

The above-noted principle concerning the nationality of catches is an important feature of the STATLANT System, in that countries whose vessels engage in joint-venture operations with a coastal state should report the fishery statistics from such ventures on separate STATLANT 21A and 21B forms, which are clearly labelled "Charter" or "Joint venture" and the name of the coastal state involved. It should also be clearly noted that these "joint-venture" data are not included with official national statistics on other STATLANT 21A and 21B forms. Due to inadequate labelling of the completed STATLANT forms, the Secretariat has sometimes experienced considerable delay in obtaining clarification from national statistical offices.

### References

- FAO. 1962. Requirements and improvements of fishery statistics in the North Atlantic Region (based on documents presented at the meeting of experts in Edinburgh, Scotland, 22-29 September 1959).

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  - 1969. Report of the sixth session of the Coordinating Working Party on Atlantic Fishery Statistics, Copenhagen, Denmark, 3-7 February 1969. FAO Fish. Rep., No. 70.
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  - MS 1986. Rules of procedure for the Scientific Council. NAFO SCS Doc., No. 28, Serial No. N1266.

# ARTICLE VI OF THE NAFO CONVENTION

- 1. The functions of the Scientific Council shall be:
- to provide a forum for consultation and cooperation among the Contracting Parties with respect to the study, appraisal and exchange of scientific information and views relating to the fisheries of the Convention Area, including environmental and ecological factors affecting these fisheries, and to encourage and promote cooperation among the Contracting Parties in scientific research designed to fill gaps in knowledge pertaining to these matters;
- to compile and maintain statistics and records and to publish or disseminate reports, information and materials pertaining to the fisheries of the Convention Area, including environmental and ecological factors affecting these fisheries;
- c) to provide scientific advice to coastal States, where requested to do so pursuant to Article VII; and
- to provide scientific advice to the Fisheries Commission, pursuant to Article VIII or on its own initiative as required for the purposes of the Commission.
- 2. The functions of the Scientific Council may, where appropriate, be carried out in cooperation with other public or private organizations having related objectives.
- 3. The Contracting Parties shall furnish to the Scientific Council any available statistical and scientific information requested by the Council for the purpose of this Article.

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GRC	Greenland cod		148													ļ		_
	Ocean pout Roundnose grenadier		164		<del> </del>	ļ		+	<del>                                     </del>	<b></b>		<b></b>	<del></del>	-	ł		-	_
	White hake	<del></del>	186	····		<del> </del>	<del></del>	<del></del>	ļ		1	<del> </del> -		<del> </del>	<del> </del>	· <del> </del>	<del> </del>	
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GRO	Groundfishes, n.e.i.:		109					1										Ξ
HER	Atlantic heming	<del></del>	202	<b></b>		<del> </del>	<del></del>	<del></del>	<u> </u>	!	]			<del> </del>			<del> </del> -	
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	Atlantic butterfish Atlantic menheden		212		<u> </u>	ļ	<del></del>	<del>-</del>				ć ali	. ├─	<del></del>	ļ	<del></del>	<del> </del>	_
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PEL	Pelegic Rahes, n.e.l.		292			· · ·		<u> </u>				1		<u> </u>				
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SQI .	Short-finned squid \$34		504					1	ļ					1	-	<b>—</b>		_
	Squids, n.s.l. Northern prawn		509 632		-	-	+	<del> </del>	1	<del></del>	<del> </del>	<del>                                     </del>	+	·	-		<u> </u>	
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NOTES ON THE COMPLETION OF FORM STATLANT 21A FOR THE 1985 CALENDAR YEAR (NORTHWEST ATLANTIC)

Prepared by

The Secretary
Co-ordinating Working Party on Atlantic Fishery Statistics (CWP)

and the

Northwest Atlantic Fisheries Organization (NAFO)



Food and Agriculture Organization of the United Nations ROME, January 1986

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# NOTES ON THE COMPLETION OF FORM STATLANT\_21A

FORM FOR REPORTING STATISTICS ON NOMINAL CATCHES

IN THE NORTHWEST ATLANTIC (FAO MAJOR FISHING AREA 21)

Copies completed with calendar year data for 1985

should be submitted to reach

NAFO and FAO

before

\* \* 15 April 1986 \* \*

# 1. PURPOSE OF THIS FORM

- 1.1 This form is to be used by national offices for reporting each year to NAFO (with copy to FAO) the annual nominal catch data on all commercial, industrial and subsistence fishing activities and operations in the Northwest Atlantic (FAO Major Fishing Area 21 see Appendix I).
- 1.2 The particulars of the data to be reported for the calendar year 1985 are as follows:
  - for the Northwest Atlantic (FAO Major Fishing Area 21) as a whole, and
  - for each NAFO division and subdivision
    - the annual NOMINAL CATCHES (LIVE weight equivalent of the landings) for each aquatic animal or plant species item (see Section 5 and Appendix II).
- 1.3 Countries using automatic data processing systems, which can provide computer printouts reflecting a format of data presentation similar to that of the form, could, instead of completing the form, provide copies of such computer printouts.

### 2. GENERAL REMARKS

# 2.1 Description of form STATLANT 21A

This form is designed for the reporting of nominal catch statistics by species items on a calendar year basis for Major Fishing Area 21 as a whole and for each NAFO division or subdivision.

A sample STATLANT 21A form, consisting of four sheets, showing detailed column headings (subareas, divisions or subdivisions) and stub entries (species items) is attached (see Appendix III).

A supply of blank sheets is provided; this should be sufficient for both drafting purposes and for submission of statistics.

# 2.2 Retention of copies in national office

One set of completed forms (or copies) should be retained in the national reporting office (i) for reference purposes to facilitate subsequent correspondence about the submitted data, and (ii) to facilitate the re-submission of the material in case the original submission gets lost en route to its destination.

# 2.3 Submission of completed forms to NAFO and FAO

After completion, one set of the original forms, or a computer printout, is to be despatched by AIRMAIL, preferably registered, or by diplomatic pouch, to reach the following before 15 April 1986:

- (a) The Assistant Executive Secretary
  Northwest Atlantic Fisheries
  Organization (NAFO)
  P.O. Box 638
  DARTMOUTH, N.S. BZY 3Y9
  Canada
- (b) The Chief
  Fishery Information, Data and Statistics Service
  Fisheries Department, FAO
  00100 ROME
  Italy

# 2.4 Despatch\_of copies to EUROSTAT

Member States of the European Communities (EC) are also requested to forward a set of the completed forms (copies) or a magnetic tape accompanied by a computer printout to:

Directorate for Agricultural, Forestry, Fishery and Energy Statistics
EUROSTAT
B.P. 1907
LUXEMBOURG
(Grand Duchy)

# 3. DEFINITION OF COVERAGE

### 3.1 <u>General\_coverage</u>

As indicated in boxes (c), (d) and (e) of the form the <u>nominal-catch</u> (LIVE weight equivalent of the landings) for the calendar year 1985 should cover the quantitative results from <u>all</u> kinds of commercial, industrial and subsistence fishing operations and activities undertaken by all types and classes of national fishing units in the waters of the Northwest Atlantic (FAO Major Fishing Area 21).

# 3.2 Examples of sectors that should NOT be overlooked in the data coverage

By means of footnotes to the form or in a separate memorandum, indicate if any particular "branch" or "sector" of the national fishing industry cannot be covered by the catch data provided, and, whenever possible, provide estimates or give some indication of the magnitudes of the quantities not included in the body of the form.

Below are listed a few examples of "branches" or "sectors" of the national fishing industry which should be included in the regularly reported statistics, but which, for one reason or another, might not yet be covered by the national collection of data:

- units of the national fishing fleet whose catches are landed directly in foreign ports (see Section 3.3 below);
- operations with fixed gears (traps, weirs, etc);
- fish-farming and shellfish culture operations;
- subsistence fishing; .
- small-scale "artisanal" fishing operations;
- seaweed harvesting (quantities to be reported on a wet-weight basis).

### 3.3 Nationality of nominal catches

The flag of the vessel catching the fish, should be considered the paramount indication of the nationality assigned to the catch data and this indication overridden only when one of the following arrangements between a foreign flag vessel and the host country exists:

- (a) the vessel is chartered by the host country to augment its fishing fleet; and
- (b) the vessel fishes for the country by joint venture contract or similar agreements (as opposed to the <u>ad boc</u> practice of a vessel selling catches to a foreign vessel or landing catches at a foreign port) and the operation of such vessel is an integral part of the economy of the host country.

when governments negotiate joint ventures or other contracts in which vessels of one country land their catches at ports of another country or unload their catches to vessels of another country and the above criteria are applicable, the assignment of nationality to such catches and landings data should be specified in the agreements.

Countries involved in cooperative fishing arrangements with coastal states in Northwest Atlantic should:

- a) Record on the appropriate STATLANT 21 forms in the usual way the relevant national fishery statistics for all fishing activity not related to cooperative arrangements; and
- b) Use separate STATLANT forms to record fishery statistics accruing from cooperative arrangements with coastal states, ensuring that these sheets are properly identified in Box (i) of the forms with appropriate wording to indicate the nature of the operations and the name of the coastal state with which the cooperative arrangement existed.

# 4. COMPLETION OF BOXES (a) THROUGH (k)

# 4.1 Box (a): Year

This box indicates the calendar year for which the data are to be reported - 1985.

# 4.2 Box (b): Country

Insert the name of the reporting country or its component territory where applicable.

# 4.3 Boxes\_(c), (d) and (e)

These boxes simply indicate the general coverage required, exceptions to which should be indicated by means of footnotes to these boxes or in a separate memorandum (see Sections 3.2 and 3.3).

### 4.4 Box (f)

This box is not to be used.

# 4.5 Box (g): FAO Major Fishing Area 21

The Northwest Atlantic is designated by the two-digit code "21".

### 4.6 Box (h)

This box is not to be used.

### 4.7 Box (i)

Use only for special purposes, e.g. to note that the statistics pertain to cooperative arrangements with a coastal state, see 3.3(b).

### 4.8 Box (j)

Insert "P" in this box should all or part of the data be provisional.

# 4.9 Box (k): Numbering of sheets

Used for numbering the sheets of the STATLANT 21A form submitted for 1985.

# 5. COMPLETION OF LINES (1) THROUGH (80): NOMINAL CATCHES

### 5.1 Nominal catch data

- (a) For the species items listed in column C of the form, insert on lines (1) through (80) the nominal catch data for the calendar year 1985 for the total, and for each NAFO division and subdivision (as indicated in column headings E through R) for the Northwest Atlantic (FAO Major Fishing Area 21).
- (b) The blank lines in column C are to be used for inserting the names of species caught which do not appear in the pre-printed list of species (see Appendix II and also Section 5.4).
- (c) The aggregates of the data for the NAFO divisions and subdivisions on each line must be reconciled, wherever necessary, with the total (for Major Fishing Area 21 as a whole) by suitable entries for the balances under the columns marked "not known". However, every attempt should be made to minimize the quantities in these columns by assigning proportions of these quantities to the appropriate divisions and subdivisions.

# 5.2 Weight unit for nominal catch data

The nominal catch data (the LIVE weight equivalent of the landings, i.e. landings on a round or whole fresh weight basis) should be expressed in metric tons (tonnes).

# 5.3 The concept "nominal catch"

The following must be taken into account when determining the coverage of the concept NOMINAL CATCH and its relationship to LANDINGS:

### (a) Adjustments:

- (i) Conversion factors (yield rates) are used to convert those quantities nationally recorded on a "landed" weight basis to their LIVE weight equivalent;
- (ii) The "nominal catch" data refer to the calendar year of capture, and the "landings" data to the calendar year of landing. Adjustments must be made to allow for catches taken in one year and landed in the succeeding year.

# (b) Nominal catch data include:

- (i) All quantities caught by national fishing units for any commercial industrial or subsistence purposes, including also the results of such fishing activities as fixed-gear fishing, fish farming, shellfish culture, seaweed harvesting, etc.;
- (ii) All quantities caught by fishing vessels flying the flag of the reporting country, and landed not only in the harbours of the reporting country but also in foreign harbours (see Section 3.3);
- (iii) All quantities caught during the calendar year 1985 indicated in box (a) of the form, although landed in the subsequent calendar year (1986).

# (c) Nominal catch data exclude:

- (i) All quantities caught in recreational fisheries by sports fishermen;
- (ii) All quantities caught by fishing vessels flying a foreign flag, and landed in the harbours of the reporting country (see Section 3.3);
- (iii) All quantities caught during the preceding calendar year (1984) but Landed during the calendar year 1985 indicated in box (a);

If there are such quantities which have not been included in the 1984 report, then they should be reported in a separate memorandum so that 1984 statistics can be updated;

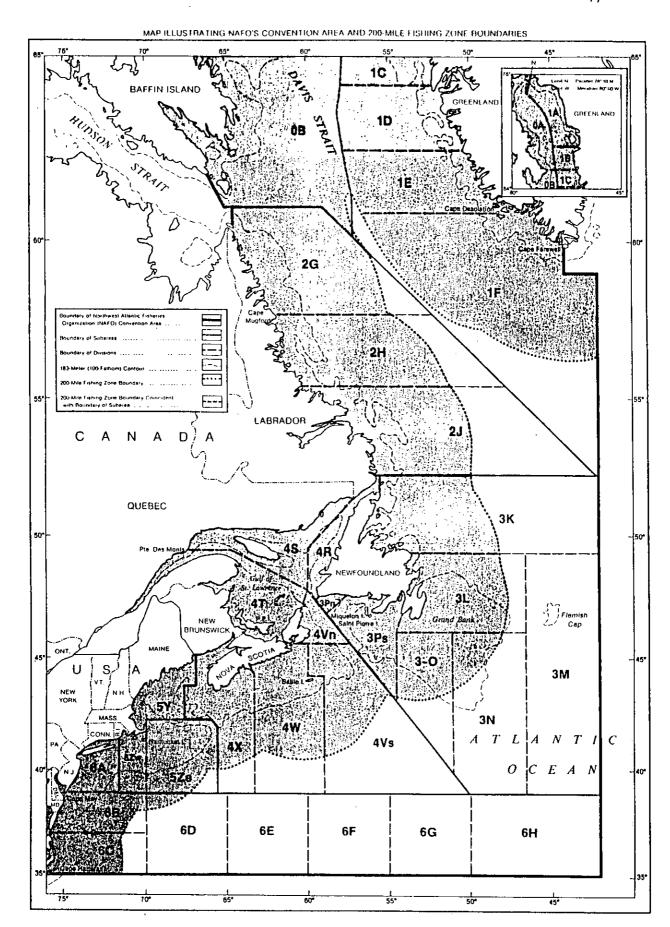
(iv) All discards ("discarded" catches), i.e. WHOLE FISH returned to the sea.

# 5.4 Provision of nominal catch data by species items

- (a) Detailed information (e.g. definitions, descriptors, etc.) about the Northwest Atlantic species items and their groupings and tabular arrangements are presented in Appendix II of these Notes.
- (b) Additional details about Northwest Atlantic species items are available also in:
  - (i) NAFO Statistical Bulletin;
  - (ii) FAO's Yearbook of Fishery Statistics tables in Section B and table C-21(a) in the "Catches and Landings" volume;
  - (iii) Various other documents obtainable on request from the NAFO or FAO Secretariats.
- (c) National offices are expected to write in the blank lines on the form the names of any other species items for which catches are made.
- (d) In all instances where statistically significant quantities of fish, crustaceans, molluscs and other marine invertebrates are reported to the national office as "unspecified", "unsorted", "other", "various" or "miscellaneous", an attempt should be made by the national office to provide estimates of the species composition of such catches for insertion on the form. Such estimates are to be added to the quantities actually reported for the relevant species items. In this way, the quantities reported for such unidentified groupings can be kept to a minimum.

# 6. ADDITIONAL REMARKS ON THE COMPLETION OF THE FORM

- 6.1 Quantities less than 0.5 metric tons should be shown as "O" on the form.
- 6.2 Nil entries should be indicated by dashes "-".
- 6.3 Where data are not yet available use the symbol "...".



# NAFO List of Species Items (revised Oct. 1985)

NAFO Code	Common English name	Scientific name	3-alpha ident.
		ndfish	
101	Atlantic cod	Gadus morhua	COD
102	Haddock	Melanogrammus aeglefinus	HAD
103	Atlantic redfishes (NS)	Sebastes sp.	RED
104;	Silver hake	Merluccius bilinearis	HKS
105	Red hake	Urophycis chuss	HKR
106	Pollock (Saithe)	Pollachius virens	POK
108	Golden redfish	Sebastes marinus	REG
109	Beaked redfish	Sebastes mentella	REB
112	American plaice	Hippoglossoides platessoides	PLA
114	Witch flounder	Glyptocephalus cynoglossus	WIT
116	Yellowtail flounder	Limanda forruginea	YEL
118	Greenland halibut	Reinhardtius hippoglossoides	GHL
120	Atlantic halibut	Hippoglossus hippoglossus	HAL
122	Winter flounder	Pseudopleuronectes americanus	FLW
124	Summer flounder	Paralichthys dentatus	FLS
125	Windowpane flounder	Scophthalmus aquosus	FLD
129	Flatfishes (NS)	Pleuronectiformes	FLX
132	American angler	Lophius americanus	ANG
136	Atlantic searobins	Prionotus sp	SRA
138	Atlantic tomcod	Microgadus tomcod	TOM
139	Blue Antimora	Antimora rostrata	ANT
140	Blue whiting (Poutassou)	Micromesistius poutassou	WHE
142	Cunner	Tautogolabrus adspersus	CUN
144	Cusk (Tusk)	Brosme brosme	USK
148	Greenland cod	Gadus ogac	GRO
151	Blue ling	Molva dypterygia	BLI
152	Ling	Molva molva	LIN
154	Lumpfish (Lumpsucker)	Cyclopterus lumpus	LUM
158	Northern kingfish	Menticirrhus saxatilis	KGF
160	Northern puffer	Sphoeroides maculatus	PUF
162	Eelpouts (NS)	Lycodes sp:	ELZ
164	Ocean pout	Macrozoarces americanus	OPT
166	Polar cod	Boreogadus saida	POC
168	Roundnose grenadier	Coryphaenoides rupestris	RNG
169	Roughhead grenadier	Macrourus berglax	RHG
172	Sandeels (Sand lances)	Ammodyles sp.	SAN
174	Sculpins (NS)	Myoxocephalus sp	scu
176	Scup	Stenotomus chrysops	SCP
180	Tautog	Tautoga onitis	TAU
182	Tilefish	Lopholatilus chamaeleonticeps	TIL
186	White hake	Urophycis tenuis	HKW
188	Wolffishes (NS)	Anarhichas sp	CAT
189	Atlantic wolffish	Anarhichas lupus	CAA
190	Spotted wolffish	Anarhichas minor	CAS
199	Groundfishes (NS)		GRO
	Pela	glc fish	
202	Atlantic herring	Clupea harengus	HER
204	Atlantic mackerel	Scomber scombrus	MAC
212	Atlantic butterfish	Peprilus triacanthus	BUT
216	Atlantic menhaden	Brevoortia tyrannus	MHA
220	Atlantic saury	Scomberesox saurus	SAU

NAFO		0.1	3-alpha
Code	Common English name	Scientific name	ident.
224	Bay anchovy	Anchoa mitchilli	ANB
228	Bluefish	Pomatomus saltatrix	BLU
232	Crevalle jack	Caranx hippos	CA1
238	Frigate tuna	Auxis thazard	FRI
240	King mackerel	Scomberomorus cavalla	KGM
244	Atlantic Spanish mackerel	Scomberomorus maculatus	SSM
252	Sailflish	Istiophorus platypterus	SAI
256	White marlin	Tetrapturus albidus	WHM
260	Blue marlin	Makaira nigricans	BUM
264	Swordlish	Xiphias gladius	SWO
272	Albacore tuna	Thunnus alalunga	ALB
274	Atlantic bonito	Sarda sarda	BON
276	Little tunny	Euthynnus alletteratus	LTA
280	Northern bluefin tuna	Thunnus thynnus	BFT
278	Bigeye tuna	Thunnus obesus	BET
282	Skipjack tuna	Katsuwonus pelamis	SKJ
284	Yellowfin tuna	Thunnus albacares	YFT
289	Tunas (NS)	Scombridae	TUN
299	Pelagic fishes (NS)		PEL
	Other	finfish	
302	Alewife	Alosa pseudoharengus	ALE
304	Amberjacks (NS)	Seriola sp	AMX
306	American conger	Conger oceanicus	COA
308	American eel	Anguilla rostrata	ELA
310	American shad	Alosa sapidissima	SHA
312	Argentines (NS)	Argentina sp.	ARG
314	Atlantic croaker	Micropogonias undulatus	CKA
316	Atlantic needlefish	Strongylura marina	NFA
318	Atlantic salmon	Salmo salar	SAL
320	Atlantic silverside	Menidia menidia	SSA
322	Atlantic thread herring	Opisthonema oglinum	THA
326	Baird's slickhead	Alepocephalus bairdii	ALC
330	Black drum	Pogonias cromis	BDM
332	Black seabass	Centropristis striata	BSB
334	Blueback herring	Alosa aestivalis	ввн
340	Capelin	Mallotus villosus	CAP
342	Chars (NS)	Salvelinus sp.	CHR
344	Cobia	Rachycentron canadum	CBA
346	Common (Florida) pompano	Trachinotus carolinus	POM
354	Gizzard shad	Dorosoma cepedianum	SHG
356	Grunts (NS)	Pomadasyidae	GRX
360	Hickory shad	Alosa mediocris	SHH
365	Lanternfish	Notoscopelus sp	LAX
370	Muliets (NS)	Mugilidae	MUL
380	North Atlantic harvestfish	Peprilus alepidotus (=Paru)	HVF
390	Pigfish	Orthopristis chrysoptera	PIG
400	Rainbow smelt	Osmerus mordax	SMR
402	Red drum	Sciaenops ocellatus	RDM
404	Red porgy	Pagrus pagrus	RPG
406	Rough scad	Trachurus lathami	RSC
410	Sand perch	Diplectrum formosum	PES
412	Sheepshead	Archosargus probatocephalus	SPH
414	Spot croaker	Leiostomus xanthurus	SPT
416	Spotted weakfish	Cynoscion nebulosus	SWF
418	Squeteague (Gray weakfish)	Cynoscion regalis	STG
420	Striped bass	Morone saxatilis	STB
			:

Scientific name

Acipenseridae ......

Tarpon (=Megalops) atlanticus ........

432	Trouts (NS)	Salmo sp	TRO
440	White perch	Morone americana	PEW
442	Alfonsinos (NS)	Beryx sp	ALF
452	Spiny (=Picked) dogfish	Squalus acanthias	DGS
459	Dogfishes (NS)	Squalidae	DGX
462	Porbeagle	Lamna nasus	POH
469	Large sharks (NS)	Squaliformes	SHX
479	Skates (NS)	Raja sp	SKA
499	Finfishes (NS)		FIN
	Inverto	ebrates	
502	Long-finned squid (Loligo)	Loligo pealei	SQL
504	Short-finned squid (Illex)	Illex illecebrosus	SQI
509	Squids (NS)	Loliginidae, Ommastrephidae	SQU
512	Atlantic razor clam	Ensis directus	CLR
514	Hard clam	Mercenaria mercenaria	CLH
516	Ocean quahog	Arctica islandica	CLQ
518	Soft clam	Mya arenaria	CLS
520	Surf clam	Spisula solidissima	CLB
529	Clams (NS)	Prionodesmacea, Teleodesmacea	CLX
532	Bay scallop	Argopecten irradians	SCB
534	Calico scallop	Argopecten gibbus	SCC
535	Icelandic scallop	Chlamys islandica	ISC

Seaweeds

Seals.

479 499	· · · · · · · · · · · · · · · · · · ·	Raja sp.	FIN
	Invert	ebrates	
502	Long-finned squid (Lotigo)	Loligo pealei	SQL
504	Short-finned squid (Illex)	Illex illecebrosus	SQI
509	Squids (NS)	Loliginidae, Ommastrephidae	SQU

Sturgeons (NS)

Common English name

Sea scallop ......

Scallops (NS)

American cupped oyster .....

Blue mussel ......

Whelks (NS) ......

Periwinkles (NS) ......

Marine molluscs (NS) ......

Atlantic rock crab .............

Blue crab ......

Green crab ......

Queen crab ......

Red crab ......

Stone king crab .......

Marine crabs (NS) .....

American lobster ......

Northern prawn .....

Aesop shrimp ......

Penaeus shrimps (NS) .....

Pink (=Pandalid) shrimps .....

Marine crustaceans (NS) .....

Sea urchin ......

Marine worms (NS) .....

Horseshoe crab .....

Marine invertebrates (NS) ......

Brown seaweeds .....

Red seaweeds .....

Seaweeds (NS) .....

Hooded seal .....

.......

NAFO

Code

422

430

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562 564

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649

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669

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699

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704

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901

902

Jonah crab

Harp seal

Lithodes maia ...... Reptantia ...... Homarus americanus ...... Pandalus borealis ...... Pandalus montagui ...... Penaeus sp. .....

Pandalus sp. .....

Crustacea ......

Strongylocentrotus sp. ......

Polychaeta ......

Limulus polyphemus ......

Invertebrata ......

Phaeophyceae .....

Rhodophyceae ......

Algae .......

Pagophilus groenlandicus .....

Cystophora cristata ......

Placopecten magellanicus .....

Pectinidae ......

Crassostrea virginica ......

Mytilus edulis .....

Busycon sp. .....

Littorina sp. ......

Mollusca ......

Cancer irroratus ......

Callinectes sapidus ...........

Carcinus maenas ......

Chionoecetes opilio ...... Geryon quinquedens ..... **AES** 

Cancer borealis ...... CRJ CRQ CRR KCT CRA LBA PRA

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	Squide, n.e.L	50					<del> </del>	<del>†</del>	<del> </del>	<del>                                     </del>	<del>                                     </del>	†	$\vdash$	+	+	+	1	_
PRA	Northern prewn	63	2															_
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NOTES ON THE COMPLETION OF FORM STATLANT 21B FOR THE 1985 CALENDAR YEAR (NORTHWEST ATLANTIC)

Prepared by

The Secretary
Co-ordinating Working Party on Atlantic Fishery Statistics (CWP)

and the

Northwest Atlantic Fisheries Organization (NAFO)



Food and Agriculture Organization of the United Nations ROME, January 1986

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### NOTES ON THE COMPLETION OF FORM STATLANT 21B

FORM FOR REPORTING STATISTICS ON CATCH AND EFFORT IN THE NORTHWEST ATLANTIC (FAO MAJOR FISHING AREA 21) Copies completed with calendar year data for 1985 should be submitted to reach

NAFO

before

\* \* 30 June 1986 \* \*
\* \*

# 1. PURPOSE OF THIS FORM

- 1.1 This form (version labelled "1985' in box (a)) is to be used by national offices for reporting each year to NAFO the catch and effort data on all commercial, industrial and subsistence fishing activities and operations in the Northwest Atlantic (FAO Major Fishing Area 21 see Appendix I).
- 1.2 The particulars of the data to be reported for the calendar year 1985, are as follows:
  - for each class of fishing unit (gear/vessel combinations), and
  - for each NAFO division or subdivision
    - the FISHING EFFORT in accordance with the three levels of priority, and
    - the <u>corresponding NOMINAL CATCHES (LIVE</u> weight equivalent of the landings) for each aquatic animal or plant species item (see Section 6 and Appendix II)
      - (i) on a monthly basis; and
      - (ii) on a calendar year basis.
- 1.3 Countries using automatic data processing systems, which can provide computer printouts reflecting a format of data presentation similar to that of the form, could, instead of completing the forms, provide copies of such computer printouts.

### Z. GENERAL REMARKS

### 2.1 Description of form STATLANT 218

This form is designed for the reporting of nominal catch and effort statistics by species items for each NAFO division or subdivision.

A sample STATLANT 218 form, of one sheet, showing detailed column headings (months) and stub entries (species items), is attached (see Appendix III).

As many forms should be used as there are data to insert, for:

- (i) All relevant categories of fishing gear (see Section 4.3), and vessel type (see Section 4.4), where applicable.
- (ii) All relevant GRT categories of vessel size (see Section 4.5);
- (iii) All relevant "main species sought" (see Section 4.6); and
- (iv) All relevant fishing areas (NAFO divisions and subdivisions see Appendix I).

A supply of blank sheets is provided; this should be sufficient for both drafting purposes and for submission of statistics. Additional forms, if required, may be obtained from the Chief, Fishery Information, Data and Statistics Service, Fisheries Department, FAO, 00100 ROME, Italy (Telex: 610181 FAO I or 610127 FAO I; telephone: Rome 5797.6414).

# 2.2 Retention of copies in national\_office

One set of completed forms (or copies) should be retained in the national reporting office (i) for reference purposes to facilitate subsequent correspondence about the submitted data, and (ii) to facilitate the re-submission of the material in case the original submission gets lost en route to its destination.

### 2.3 Submission of completed forms to NAFQ

After completion, one set of the original forms, or a magnetic tape accompanied by a computer printout is to be despatched by AIRMAIL, preferably registered, or by diplomatic pouch, to reach the following before 30 June 1986:

The Assistant Executive Secretary Northwest Atlantic Fisheries
Organization (NAFO)
P.O Box 638
DARTMOUTH, N.S. B2Y 3Y9
Canada

### 2.4 Despatch of copies to EUROSTAT

Member States of the European Communities (EC) are also requested to forward a set of the completed forms (copies) or a magnetic tape accompanied by a computer printout to:

Directorate for Agricultural, Forestry, Fishery
and Energy Statistics
EUROSTAT
B.P. 1907
LUXEMBOURG
(Grand Duchy)

### DEFINITION OF COVERAGE

### 3.1 General\_coverage

The nominal catches (LIVE weight equivalent of the landings) and the corresponding fishing effort, where available, for each month of the calendar year 1985 should cover the quantitative results of all kinds of commercial, industrial and subsistence fishing operations and activities undertaken by all types and classes of national fishing units in the waters of the Northwest Atlantic (FAO Major Fishing Area 21).

A separate STATLANT 21B sheet must be used for each different class of fishing unit indicated in boxes (c), (d) and (e), for each "main species" in box (f), and for each "division or subdivision" in box (h).

NAFO requires that the fishery statistics reported on STATLANT 21B forms represent the complete and final national statistics for publication. Except where the earlier deadline for the submission of STATLANT 21A forms necessitated the reporting of provisional data, the total of the annual catches of the species items recorded on all sheets of form 21B should correspond with the annual nominal catch data submitted on form 21A.

### 3.2 Examples of sectors that should NOT be overlooked in the data coverage

By means of footnotes to the form or in a separate memorandum, indicate if any particular "branch" or "sector" of the national fishing industry cannot be covered by the catch data provided, and, whenever possible, provide estimates or give some indication of the magnitudes of the quantities not included in the body of the form.

Below are listed a few examples of "branches" or "sectors" of the national fishing industry which should be included in the regularly reported statistics, but which, for one reason or another, might not yet be covered by the national collection of data:

- units of the national fishing fleet whose catches are landed directly in foreign ports (see Section 3.3 below);
- operations with fixed gears (traps, weirs, etc);
- fish-farming and shellfish culture operations;
- subsistence fishing;
- small-scale "artisanal" fishing operations;
- seaweed harvesting (quantities to be reported on a wet-weight basis).

### 3.3 Nationality of nominal catches

The flag of the vessel catching the fish, should be considered the paramount indication of the nationality assigned to the catch data and this indication overridden only when one of the following arrangements between a foreign flag vessel and the host country exists:

- (2) the vessel is chartered by the nost country to augment its fishing fleet; and
- (b) the vessel fishes for the country by joint venture contract or similar agreements (as opposed to the 2d hoc practice of a vessel selling catches to a foreign vessel or landing catches at a foreign port) and the operation of such vessel is an integral part of the economy of the host country.

Shan governments negotiate joint ventures or other contracts in which vessels of one country land their catches at ports of another country or unload their catches to vessels of another country and the above criteria are applicable, the assignment of nationality to such catches and landings data should be specified in the agreements.

Countries involved in cooperative fishing arrangements with coastal states in the Northwest Atlantic should:

- (a) Record on the appropriate STATLANT 21 forms in the usual way the relevant national fishery statistics for all fishing activity not related to cooperative arrangements; and
- (b) Use separate STATLANT forms to record fishery statistics accruing from cooperative arrangements with coastal states, ensuring that these sheets are properly identified in Box (i) of the forms with appropriate wording to indicate the nature of the operations and the name of the coastal state with which the cooperative arrangement existed.

# 4. COMPLETION OF BOXES (a) THROUGH (k)

### 4.1 Box (a): Year

This box indicates the calendar year for which the data are to be reported - 1985

### 4.2 Box (b): Country

Insert the name of the reporting country or of its component territory where applicable.

# 4.3 Box (c): Fishing gear/method

Insert whichever of the following is pertinent to describe the class of fishing unit.

Use the standard abbreviations and the NAFO codes for gears used in the Northwest Atlantic (FAO Major Fishing Area 21).

If fishing has been carried out by a gear for which no NAFO code has been assigned, insert the name of the gear and standard abbreviation, if applicable.

Gear Categories	Standard Abbre-	ISSCFG	NAFO
	viation	Code	Code
SURROUNDING NETS		01.0.0	-
with purse lines (purse seines)	PS	01.1.0	31
- one boat operated purse seines	PS1	01.1.1	_
- two boat operated purse seines	PS 2	01.1.2	_
Without purse lines (lampara)	LA	01.2.0	-
SEINE NETS		02.0.0	-
Beach seines	\$8.*	02.1.0 -	- 24
Boat or vessel seines	SV	02.2.0	-
- Danish seines	SDN	02.2.1	21
- Scottish seines	SSC	02.2.2	22
- Pair seines	SPR	02.2.3	23
Seine nets (not specified)	sx	02.9.0	-
TRAWLS		03.0.0	-
Bottom trawls		03.1.0	-
- beam trawls	TBB	03.1.1	18
- otter trawls 1/	OTB	03.1.2	10
- pair trawls	PTB	03.1.3	16
- nephrops trawis	TBN	03.1.4	
- shrimp trawls	TBS	03.1.5	-
<ul> <li>bottom trawls (not specified)</li> </ul>	· TB	03.1.9	-
Midwater trawls		03.2.0	-
- otter trawls 1/	OTM .	03.2.1	13
- pair trawls	PTM	03.2.2	17
- shrimp trawls	TMS	03.2.3	-
- midwater trawls (not specified)	TM	03.2.9	-
Otter twin trawis	OTT	03.3.0	-
Otter trawls (not specified)	OT	03.4.9	-
Pair trawls (not specified)	PT	03.5.9	-
Other trawls (not specified)	TX	03.9.0	-

Gear Categories	Standard Abbre- viation		NAFO Code
DREDGES		04.0.0	-
Boat dradges	BRC	04.1.0	71
Hand dradges	DRH	04.2.0	72
LIFT NETS		05.0.0	-
Portable lift nets	LNP	05.1.0	•
Boat operated lift nets	LNB	05.2.0	
Shore operated stationary lift nets	LNS	05.3.0	-
Lift nets (not specified)	LN	05.9.0	-
FALLING GEAR	*	06.0.0	_
Cast nets	FCN	06.1.0	
Falling gear (not specified)	FG	06.9.0	-
GILLNETS AND ENTANGLING NETS		07.0.0	_
Set gillnets (anchored)	GNS	07.1.0	41
Drift nets	GND	07.2.0	42
Encircling gilinets	GNC	07.3.0	-
Fixed gillnets (on stakes)	GNF		-
Trammel nets	GTR	07.5.0	_
Combined gillnets-trammel nets	GTN	07.6.0	-
Gillnets and entangling nets (not specified)		07.9.0	-
Gillnets (not specified)	GN	07.9.1	40
TRAPS		08.0.0	_
Stationary uncovered pound-nets	FPN	08.1.0	61
Pots	FPO	08.2.0	62
Fyke nets	FYK	08.3.0	-
Stow-nets (	FSN	08.4.0	-
Barriers, fences, weirs, etc.	FWR	08.5.0	63
Aeriai traps	FAR	08.6.0	•
Traps (not specified)	FIX	08.9.0	60
HOOKS AND LINES		09.0.0.	-
Hand-lines and pole-lines (hand operated) 2/	LHP	09.1.0	53
Hand-lines and pole-lines (mechanized) 2/	LHM	09.2.0	55
Set lines (longlines set)	LLS	09.3.0	51
Drifting Longlines	LLD	09.4.0	52
Longlines (not specified)	LĻ	09.5.0	50
Trolling lines	LTL	09.6.0	54
Hooks and lines (not specified) 3/	LX	09.9.0	-
GRAPPLING AND WOUNDING		10.0.0	-
Harpoons	HAR	10.1.0	81
HARVESTING MACHINES		11.0.0	-
Pumps	HMP	11.1.0	
Mechanized dredges	HM D	11.2.0	-
Harvesting machines (not specified)	HMX	11.9.0	-

Standard								
Gear Categories	Abbre- viation	ISSCFG Code	NAFO Code					
MISCELLANEOUS GEAR 4/	SIK	20.0.0	90					
RECREATIONAL FISHING GEAR	RG	25.0.0	-					
GEAR NOT KNOWN OR NOT SPECIFIED	NK	99.0.0	99					

<sup>1/</sup> See Section 4.4.

### 4.4 Box (d): Vessel type (bottom\_and\_midwater\_otter\_trawls\_only)

NAFO requires that data for vessels using bottom and midwater trawls be reported separately by vessel type; insert in Box (d) whichever of the following is pertinent:

(i)	bottom otter trawls - side:	OTB 1	(NAFO code 11)
(ii)	bottom otter trawls - stern:	0TB 2	(NAFO code 12)
(iii)	midwater otter trawls - side:	OTM 1	(NAFO code 14)
(fv)	midwater ofter trawls - stern:	OTM 2	(NAFO code 15)

### 4.5 Box (e): Vessel size

Insert whichever of the following NAFO codes is appropriate to describe the GRT category of the fishing unit.

GRT Category	NAFO Code
0 - 49.9	2
50 - 149.9	' <b>3</b>
150 - 499.9	<b>4</b>
500 - 999.9	5
.1 000 - 1 999.9	6
2 000 - '99 999.9	7
Not known	0
0 - 24.9	1 Canada only
25 - 49.9	2

<sup>2/</sup> Including jigging lines.

<sup>3/</sup> Abbreviation LDV (NAFO code 58) for dory operated line gears will be maintained for historical data purposes.

This item includes: hand and landing nets, drive-in-nets, gathering by hand with simple hand implements with or without diving equipment, poisons and explosives, trained animals, electrical fishing.

### 4.6 Box (f): Main species sought

Insert the name of the main species sought. This is determined as the species towards which the fishing effort was mainly directed, as determined by the manner or method of fishing. In many cases this is one species which dominates in the catches. Every effort should be made to compile national statistics of catch and effort by "main species sought", and separate forms should be used to report the data for each "main species" instead of compining data and reporting under the category "mixed".

### 4.7 Box (g): FAO Major Fishing Area 21

The Northwest Atlantic is designated by the two-digit code "21".

### 4.8 8ox (h): NAFO division or subdivision

Insert the designated name of the respective NAFO division or subdivision (where applicable) to indicate where the catches were made.

Statistics for Divisions 3P, 4V and 5Z have for several years been required to be reported by subdivisions, and it is essential that data are compiled and reported for 3P (north), 3P (south), 4V (north), 4V (south), 5Z (east) and 5Z (west) separately.

A chart showing the boundaries of each NAFO subarea, division and subdivision of the Northwest Atlantic (FAO Major Fishing Area 21) is in Appendix I of these Notes.

Larger scale charts may be obtained from the NAFO Secretariat, P.O. Box 638, DARTMOUTH, Nova Scotia, B2Y 3Y9, Canada.

### 4.9 Box (i)

Use only for special purposes, e.g. to note that the statistics pertain to cooperative arrangements with a coastal state.

### 4.10 Box\_(j)

Insert "P" in this box should all or part of the data be provisional.

### 4.11 Box (k): Numbering of sheets

To be used for numbering the forms of the STATLANT 21B series submitted for 1985

# 5. COMPLETION OF LINES (1) THROUGH (3): FISHING EFFORT MEASURES

- 5.1 For detailed standard specifications and definitions of the various types of effort, as required to be reported in lines (1) to (3) for the type of fishing gear recorded in box (c) of the form, see Section 5.3 below.
- 5.2 The data for all three levels of priority for effort measures specified in lines (1), (2) and (3) should be provided.
  - (a) In the case of affort measures at level of priority A on line 1, the descriptor to be inserted in the blank space after the letter "A" must be chosen from the "A" list in Section 5.3 below to correspond with the the fishing gear specified in box (c) of the form.
  - (b) If the data to be reported for effort at the level of priority A on line 1 of the form deviate from the "standard definition" for the gear type given in box (c), it is important that such deviation be indicated in a separate memorandum or preferably in a footnote at the bottom of the form.

# 5.3 Descriptors and definitions of fishing effort measures by gear categories (lines (1) through (3)).

Level of priority	Fishing gear	Effort measure descriptors	Definitions
A. FIRST	Surrounding nets (purse seines)	No. of sets	Number of times the gear has been set or shot, whether or not a catch was made. This measure is appropriate when school size and packing density is related to stock abundance or sets are made in a random manner.
	Beach seines	No. of sets	Number of times the gear has been set or shot, whether or not a catch was made.
	Boat seines (Danish seine, etc.)	No. of hours fished	Number of hours during which the seine was on the bottom and fishing.
	Trawis	No. of hours fished	Number of hours during which the trawl was in the water (midwater trawl), or on the bottom (bottom trawl), and fishing.
	Boat dredges	No. of hours fished	Number of hours during which the dredge was on the bottom and fishing.
	Gillnets (set or drift)	No. of effort units	Length of nets expressed in 100-metre units multiplied by the number of sets made (= accumulated total length in metres of nets used in a given time period divided by 100).

Level of priority	Fishing gear	Effort measure descriptors	0éfinitions
A. FIRST (continued)	Gillnets (fixed)	No. of effort units	Length of net expressed in 100-metra units multiplied by the number of times the net was cleared.
	Traps (un- covered pound nets)	No. of effort units	Number of days fished times the number of units hauled.
•	Covered pots and fyke nets	No. of effort units	Number of lifts times the number of units (= total number of units fished in a given time period).
	Longlines (set or drift)	Thousands of hooks	Number of hooks fished in a given time period divided by 1000.
	Handlines (pole, troll, jig, etc.)	No of line-days	Total number of lines used in the given time period.
	Harpoons	•	(Report effort levels B and C only)
B. <u>SECOND</u>	All gears	No. of days fished	The number of days (24-hour periods, reckoned from midnight to midnight) on which any fishing took place. For those fisheries in which searching is a substantial part of the fishing operation, days in which searching but no fishing took place should be included in "days fished" data.
c. THIRD	All gears	No. of days on grounds	The number of days (24-hour periods, reckoned from midnight to midnight) in in which the vessel was on the fishing ground, and includes in addition to the days fishing and searching also all the other days while the vessel was on the ground.

# 6. COMPLETION OF LINES (5) THROUGH (75): NOMINAL CATCHES

### 5.1 Nominal catch data

- (a) For the species items listed in column C of the form, insert on lines (5) through (75) the nominal catch data for the calandar year 1985 in column R (Total), with a breakdown on a monthly basis in columns E to P, which are headed with the names of the months. Insert in column Q only those catches which cannot be assigned to the appropriate months.
- (b) The blank lines in column C are to be used for inserting the names of species caught which do not appear in the pre-printed list of species (see Appendix II and also Section 6.5).
- (c) The aggregates of the <u>monthly</u> catch must be reconciled with the <u>annual</u> total wherever possible. Quantities that cannot be allocated to the appropriate month of capture should be recorded in column Q. However, every attempt should be made to minimize the quantities in column Q by assigning proportions of these quantities to the appropriate months.

### 6.2 Relation of nominal catch to effort

The nominal catch of the various species items recorded in each of the vertical columns (E) to (R) must be those for which the effort data are recorded on lines (1) to (3) in the corresponding columns; even if the effort data are not available the monthly catch data should be reported.

### 6.3 Weight unit for nominal catch data

The nominal catches (the LIVE weight equivalent of the landings, i.e. landings on a round or whole fresh weight basis) should be expressed in metric tons (tonnes).

### 6.4 The concept "nominal catch"

The following must be taken into account when determining the coverage of the concept NOMINAL CATCH and its relationship to LANDINGS:

### (a) Adjustments:

- (i) Conversion factors (yield rates) are used to convert those quantities nationally recorded on a "landed" weight basis to the LIVE weight equivalent;
- (ii) The "nominal catch" data refer to the calendar year of capture, and the "landings" data to the calendar year of landing. Adjustments must be made to allow for catches taken in one year and landed in the succeeding year.

### (b) Nominal catch data include:

- (i) All quantities caught by national fishing units for any commercial, industrial or subsistence purposes, including also the results of such fishing activities as fixed-gear fishing, fish farming, shellfish culture, seaweed harvesting, etc.;
- (ii) All quantities caught by fishing vessels flying the flag of the reporting country, and landed not only in the harbours of the reporting country, but also in foreign harbours (see Section 3.3);
- (iii) All quantities caught during the calendar year 1984 indicated in box (a) of the form, although landed in the subsequent calendar year (1985).

### (a) Nominal catch data exclude:

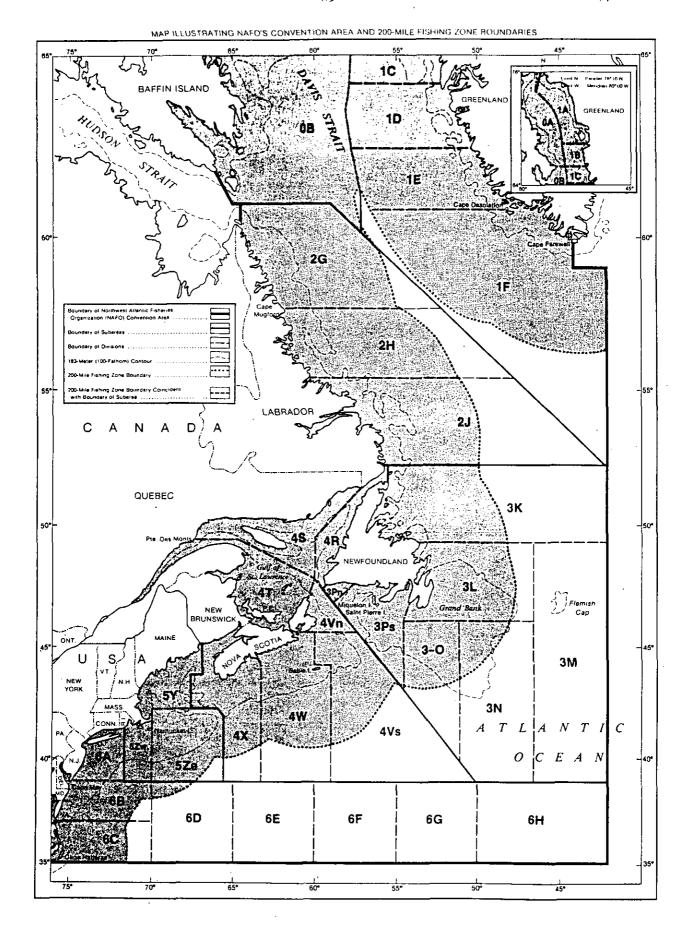
- (i) All quantities caught in recreational fisheries by sports fishermen;
- (ii) All quantities caught by fishing vessels flying a foreign flag, and landed in the harbours of the reporting country (see Section 3.3);
- (iii) All quantities caught during the preceding calendar year (198 $\mu$ ) but landed during the calendar year 198 $\leq$  indicated in box (a).

If there are such quantities which have not been included in the 1983 report, then they should be reported in a separate memorandum so that the 1983 statistics can be updated;

(iv) All discards ("discarded" catches), i.e. WHOLE FISH returned to the sea.

# 6.5 Provision of nominal catch data by species items

- (a) Detailed information (e.g. definitions, descriptors, etc.) about the Northwest Atlantic species items and their groupings and tabular arrangements are presented in Appendix II of these Notes.
- (b) Additional details about Northwest Atlantic species items are available also in:
  - (i) NAFO Statistical Bulletin;
  - (ii) FAO's Yearbook of Fishery Statistics tables in Section B and table C-21(a) in the "Catches and Landings" volume;
  - (iii) Various other documents obtainable on request from the NAFO or FAO Secretariats.
- (c) National offices are expected to write in the blank lines on the form the names of any other species items for which catches are made.
- (d) In all instances where statistically significant quantities of fish, crustaceans, molluscs and other marine invertebrates are reported to the national office as "unspecified", "unsorted", "other", "various" or "miscellaneous", an attempt should be made by the national office to provide estimates of the species composition of such catches for insertion on the form. Such estimates are to be added to the quantities actually reported for the relevant species items. In this way, the quantities reported for such unidentified groupings can be kept to a minimum.



# NAFO List of Species Items (revised Oct. 1985)

	•	3-alpha
Common English name	Scientific name	ident.
Grou	ndfish	•
Atlantic cod	Gadus morhua	COD
Haddock		HAD
Atlantic redfishes (NS)		RED
Silver hake		HKS
Red hake		нкя
		POK
		REG
		REB
		PLA
		WIT
		YEL
		GHL
	· · · · · · · · · · · · · · · · · · ·	HAL
		FLW
	•	FLS
		FLD
· ·		FLX
		ANG
•		
		SRA
		TOM
		ANT
		WHB
		CUN
	·	USK
	_	GRC
	Molva dypterygia	BLI
	Molva molva '	LIN
		LUM
	Menticirrhus saxatilis	KGF
	Sphoeroides maculatus	PUF
Eelpouts (NS)	Lycodes sp:	ELZ
Ocean pout	Macrozoarces americanus	OPT
	Boreogadus saida	POC
Roundnose grenadier	Coryphaenoides rupestris	RNG
Roughhead grenadier	Macrourus berglax	RHG
Sandeels (Sand lances)	Ammodytes sp	SAN
Sculpins (NS)	Myoxocephalus sp	SCU
Scup	Stenotomus chrysops	SCP
Tautog	Tautoga onitis	TAU
Tilefish	Lopholatilus chamaeleonticeps	TIL
White hake	Urophycis tenuis	HKW
Wolffishes (NS)		CAT
Atlantic wolffish		CAA
	·	CAS
Groundfishes (NS)	•	GRO
	· · · · · · · · · · · · · · · · · · ·	
_		uen
Atlantic mackerel		HER
	Scomber scombrus	MAC
Atlantic hutterfish	Daneilus trianasthus	C 1 1 T
Atlantic butterfish	Peprilus triacanthus  Brevoortia tyrannus	BUT MHA
	Atlantic cod Haddock Atlantic redfishes (NS) Silver hake Red hake Pollock (Saithe) Golden redfish Beaked redfish American plaice Witch flounder Yellowtail flounder Greenland halibut Atlantic halibut Winter flounder Summer flounder Summer flounder Flatfishes (NS) American angler Atlantic searobins Atlantic tomcod Blue Antimora Blue whiting (Poutassou) Cunner Cusk (Tusk) Greenland cod Blue ling Ling Lumpfish (Lumpsucker) Northern kingfish Northern puffer Eelpouts (NS) Ocean pout Poiar cod Roundnose grenadier Roughhead grenadier Sandeels (Sand lances) Sculpins (NS) Scup Tautog Tilefish White hake Wolffishes (NS) Atlantic wolffish Spotted wolffish Groundfishes (NS)	Atlantic cod Gadus morhua  Atlantic cod Melanogrammus aegielinus  Atlantic redfishes (NS) Sebastes sp. Silver hake Merluccius bilinearis  Ped hake Urophycis chuss  Pollock (Saithe) Pollachius virens Golden redfish Sebastes marinus Beaked redfish Sebastes marinus Beaked redfish Sebastes marinus Beaked redfish Gilyptocephalus cynoglossus  Witch flounder Hippoglossoides platessoides Witch flounder Gilyptocephalus cynoglossus  Yellowtail flounder Limande ferruginea Greenland halibut Reinhardtius hippoglossoides  Atlantic halibut Hippoglossus hippoglossus  Winter flounder Pseudopleuronectes americanus  Summer flounder Pseudopleuronectes americanus  Summer flounder Pseudopleuronectes americanus  Summer flounder Pseudopleuronectes americanus  Summer flounder Pseudopleuronectes americanus  Atlantic halibut Hippoglossus hippoglossus  Windowpane flounder Pseudopleuronectes americanus  Summer flounder Pseudopleuronectes americanus  Summer flounder Pseudopleuronectes americanus  Summer flounder Pseudopleuronectes americanus  Summer flounder Pseudopleuronectes americanus  Atlantic halibut Hippoglossus hippoglossus  Windowpane flounder Pseudopleuronectes americanus  Atlantic hounder Pseudopleuronectes americanus  Atlantic tomcod Microgadus tomcod  Blue Antimora  Antimora rostrata  Blue whiting (Poutassou) Micromesistius poutassou  Cunner Tautogolabrus adspersus  Cusk (Tusk) Brosme brosme  Greenland cod Gadus ogac  Blue ling Molva dyterygia  Ling Molva dyterygia  Ling Molva molva  Lumpfish (Lumpsucker) Cyclopterus lumpus  Northern kingfish Menticirrhus saxatilis  Northern puffer Sphoerides maculatus  Polar cod Boreogadus saida  Poundnose grenadier Coryphaenoides rupsetris  Roughhaed grenadier Macrozarces americanus  Polar cod Boreogadus saida  Poundnose grenadier Macrozarces americanus  Polar cod Boreogadus saida  Poundnose grenadier Macrozarces americanus  Polar cod Boreogadus saida  Poundnose grenadier Macrozarces americanus  Polar cod Boreogadus saida  Proundnose grenadier Macrozarces americanus  Propodistius chamaeleontic

AFO ode	Common English name	Scientific name	3-alph ident
224	Bay anchovy	Anchoa mitchilli	ANE
228	Bluefish	Pomatomus saltatrix	BLU
232	Crevalle jack	Caranx hippos	CV
38	Frigate tuna	Auxis thazard	FRI
Ю	King mackerel	Scomberomorus cavalla	KGN
14	Atlantic Spanish mackerel	Scomberomorus maculatus	SSM
52	Sailfish	Istiophorus platypterus	SA
56	White marlin	· · · · · · · · · · · · · · · · · · ·	WHI
		Tetrapturus albidus	
60	Blue marlin	Makaira nigricans	BUI
64	Swordfish	Xiphias gladius	SW
72	Albacore tuna	Thunnus alalunga	ALI
74	Atlantic bonito	Sarda sarda	·BO
76	Little tunny	Euthynnus alletteratus	LTA
80	Northern bluefin tuna	Thunnus thynnus	BF
78	Bigeye tuna	Thunnus obesus	BE'
82	Skipjack tuna	Katsuwonus pelamis	SK
84	Yellowfin tuna	Thunnus albacares	YF
89	Tunas (NS)	Scombridae	τυ
99	Pelagic fishes (NS)		PE
-			
	•	finfish	
02	Alewife	Alosa pseudoharengus	AL
04	Amberjacks (NS)	Seriola sp	ΑN
06	American conger	Conger oceanicus	CC
36	American eel	Anguilla rostrata	EL
10	American shad	Alosa sapidissima	SH
12	Argentines (NS)	Argentina sp	AR
14	Atlantic croaker	Micropogonias undulatus	CK
16	Atlantic needlefish	Strongylura marina	NF
18	Atlantic salmon	Salmo salar	SA
20	Atlantic silverside	Menidia menidia	SS
22			TH
	Atlantic thread herring	Opisthonema oglinum	
26	Baird's slickhead	Alepocephalus bairdii	AL
30	Black drum	Pogonias cromis	BD
32	Black seabass	Centropristis striata	BS
34	Blueback herring	Alosa aestivalis	· 88
40	Capelin	Mallotus villosus	CA
42	Chars (NS)	Salvelinus sp	CH
44	Cobia	Rachycentron canadum	CE
46	Common (Florida) pompano	Trachinotus carolinus	PC
54	Gizzard shad	Dorosoma cepedianum	SH
56	Grunts (NS)	Pomadasyidae	GF
60	Hickory shad		SH
65 65	•	Alosa mediocris	
	Lanternfish	Notoscopelus sp	LA
70	Mullets (NS)	Mugilidae	MU
30	North Atlantic harvestfish	Peprilus alepidotus (=Paru)	H/
90	Pigfish	Orthopristis chrysoptera ,	Pi
00	Rainbow smelt	Osmerus mordax	SM
)2	Red drum	Sciaenops ocellatus	RD
)4	Red porgy	Pagrus pagrus	RP
)6	Rough scad	Trachurus lathami	RS
10	Sand perch	Diplectrum formosum	PE
12	Sheepshead		
_	Spot croaker	Archosargus probatocephalus	SPI
14		Leiostomus xanthurus	SP
	Sootted weakfish		
16	Spotted weakfish	Cynoscion nebulosus	SW
14 16 18 20	Spotted weakfish	Cynoscion regalis  Morone saxatilis	SW ST

NAFO Code	Common English name	Scientific name	3-alpha ident.
422	Sturgeons (NS)	Acipenseridae	STU
430	Tarpon	Tarpon (=Megalops) atlanticus	TAR
432	Trouts (NS)	Salmo sp	TRO
440	White perch	Morone americana	PEW
442	Alfonsinos (NS)	Beryx sp	ALF
452	Spiny (=Picked) dogfish	Squalus acanthias	DGS
459	Dogfishes (NS)	Squalidae	DGX
462	Porbeagle	Lamna nasus	POR
469	Large sharks (NS)	Squaliformes	SHX
479	Skates (NS)	Raja sp	SKA
499	Finfishes (NS)		FIN
		ebrates	:
502	Long-finned squid (Loligo)	Loligo pealei	SQL
504	Short-finned squid (Illex)	Illex illecebrosus	SQI
509	Squids (NS)	Loliginidae, Ommastrephidae	SQU
512	Atlantic razor clam	Ensis directus	CLR
514	Hard clam	Mercenaria mercenaria	CLH
516	Ocean quahog	Arctica islandica	CLQ
518	Soft clam	Mya arenaria ,	CLS
520	Surf clam	Spisula solidissima	CLB
529	Clams (NS)	Prionodesmacea, Teleodesmacea	CLX
532	Bay scallop	Argopecten irradians	SCB
534	Calico scallop	Argopecten gibbus	SCC
535	Icelandic scallop	Chlamys islandica	ISC
536	Sea scallop	Placopecten magellanicus	SCA
539	Scallops (NS)	Pectinidae	SCX
542	American cupped oyster	Crassostrea virginica	OYA
552	Blue mussel	Mytilus edulis	MUS
562	Whelks (NS)	Busycon sp.	WHX
564	Periwinkles (NS)	Littorina sp.	PER
589	Marine molluscs (NS)	Mollusca	MOL
602	Atlantic rock crab	Cancer irroratus	CRK
	Blue crab	Callinectes sapidus	CRB
604		Carcinus maenas	CRG
606	Green crab	Cancer borealis	· CRJ
608	Jonah crab	Chionoecetes opilio	CRQ
610	Queen crab	•	CRR
612	Red crab	Geryon quinquedens Lithodes maia	KCT
614	Stone king crab		CRA
619	Marine crabs (NS)	Reptantia	LBA
622	American lobster	Homarus americanus	PRA
632	Northern prawn	Pandalus borealis	AES
633	Aesop shrimp	Pandalus montagui	PEN
638	Penaeus shrimps (NS)	Penaeus sp	PAN
639	Pink (=Pandalid) shrimps	Pandalus sp	CRU
649	Marine crustaceans (NS)	Crustacea	
652	Sea urchin	Strongylocentrotus sp	URC
669	Marine worms (NS)	Polychaeta	WOR
672	Horseshoe crab	Limulus polyphemus	HSC
699	Marine invertebrates (NS)	Invertebrata	INV
		weeds	٠.
702	Brown seaweeds	Phaeophyceae	SWE
704	Red seaweeds	Rhodophyceae	SWF
709	Seaweeds (NS)	Algae	SWX
		ieals '	
901	Harp seal	Pagophilus groenlandicus	SEH
902	Hooded seal	Cystophora cristata	SEZ

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PLA	American place	112										İ				<u> </u>	၂
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CHL	Greenland Nakhut Atlentic hakhut	118	-			<b></b>									<b>‡</b> : :		_
FLH	Whiter Rounds	122				<u> </u>											-
	Flattishes, n.e.i	124	+		<del> </del>		<del> </del>	-		-	<del></del> -	-			ļ		
ARG	American angler ( m go	132 136						1					<u> </u>				÷
SRA	Altentic searobins Tusk I i Cuski	144	<u> </u>		•						<del> </del>	+	<del> </del>	<del> </del>	<del> </del>	+	_
GRC		148	-	I			<u> </u>										_
RNG	Roundhose grenadies	164	<u> </u>	<u> </u>			<u> </u>		h <del></del>	<u> </u>		<del> </del>	<del> </del>	<del> </del> -	<del>- · · ·</del>	<del> </del>	4
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CIA	Atlantie welffish	189		<u> </u>			<del> </del>						<u> </u>	<u>.</u> 		<del> </del>	4
CAS	Spotted welfflah	190	+		+	<del> </del> -	· · · · · · · · · · · · · · · ·	· ·	<del> </del>	<del></del>	<del> </del>		<del> </del>		1		Π
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BUT	Attendic butterfish	212	1	ļ			<u> </u>	ļ:									_
	Allentic menhaden Allentic sauty	216	+	<del> </del>	-	├	<del> </del>		···~	<b>├</b>	<del> </del>	-	<del> </del>			<del>                                     </del>	_
	Bluefish Northern Bluefin tune	228					<u> </u>								<u> </u>	<u> </u>	_
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	Pelagic fishes, ri.a.r.	299	<del>                                     </del>	<del>                                     </del>	+	<del> </del>	-		<del> </del> -	<u> </u>	<del> </del>	<u> </u>	·		ļ <u>.</u>		_
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ARC	Atlantic argentines	312	<u> </u>	<del></del>		<u> </u>		<u> </u>		┢──	<del> </del>		<del> </del>		<del> </del> -	<del> </del>	
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POR	Dogfishes, ri.s i. Portisagle	459	+	<del> </del> -	<del>-  </del>	<del> </del>	<del>                                     </del>	<u> </u>	-	<u> </u>							_
SKA	Skales, n.e.l.	469					<b>†</b>										_
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