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& EFFORT COMPUTER FILE STRUCTURE
ONAL INTERCHANGE — 1984

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STACAC

Statistical Co-Ordinating Committee for the Atlantic Coast

CATCH & EFFORT COMPUTER FILE STRUCTURE FOR ZONAL INTERCHANGE-1984

JUNE 1984

FOREWORD

Since its inception, STACAC has endeavoured to co-ordinate the development of inter-regional information systems for the Atlantic which are based on standard terms and definitions, standard reporting principles and a common zonal interchange computer file structure. Such a joint approach by the Regions will facilitate the exchange of fisheries statistics and will help to ensure that the data generated from the interchange files are consistent and standard across the Zone.

In this document, Section I presents the scope and organization of the Catch and Effort Computer File Structure, while Section II outlines the data elements for which retrieval will be possible on a Zonal basis. Section III contains the Zonal Interchange file codebook and provides notes related to the data processing aspects of the file.

This document will be updated regularly and any proposed changes to the data elements or codes should be first submitted to STACAC for review.

E.B. Dunne
Chairman, STACAC

**CATCH & EFFORT COMPUTER FILE STRUCTURE
FOR ZONAL INTERCHANGE - 1984**

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SECTION I

FILE SCOPE, ORGANIZATION AND PROCEDURES

1. This file will contain commercial landings only, sport fishing will not be included. (Commercial landings of freshwater fisheries may be incomplete.)
2. For zonal interchange purposes, only species with codes less than 900 will be included. Data for species with codes 900 or greater will be available at regional offices.
3. Landings by vessels less than 35 feet and supplementary slips will be aggregated on a port of landing (community) basis where the following factors are constant:

FOR EACH PORT OF LANDING BY:

MONTH, GEAR, UNIT-AREA, SPECIES, SIZE, FORM, GRADE AND BUYER.

4. Landings by vessels greater than or equal to 35 feet will, if possible, be kept by boat on a trip-by-trip basis.

Sub-trip detail will, when possible, represent daily fishing effort. Note that catches are sometimes landed at two ports. Landings and value information will be aggregated where the following fields do not change within a given trip:

PORT LANDED, DATE-CAUGHT, UNIT-AREA, GEAR, DEPTH-ZONE,
MAIN-SPECIES, SPECIES, SIZE, FORM, GRADE AND BUYER

The sort sequence 5) shows this arrangement of records.

Effort information will be distributed across the sub-trips and repeated on each record of the sub-trip. The first record of each sub-trip will contain a '-' (minus sign) in the EFFORT-FLAG field to facilitate extraction of effort information on a sub-trip basis.

5. A sequential file format was chosen for interchange. The following describes the sort sequence for the file:
 1. CFV.....(Field 1)
 2. TRIP NUMBER.....(Field 13)
 3. PORT LANDED.....(Field 19)

4. Sub-Trip:
 - a) DATE-CAUGHT.....(Field 42)
 - b) UNIT-AREA.....(Field 15)
 - c) GEAR.....(Field 17)
 - d) DEPTH-ZONE.....(Field 43)
 - e) MAIN-SPECIES CAUGHT.....(Field 33)
 5. SPECIES-CODE.....(Field 24)
 6. SPECIES-SIZE.....(Field 25)
 7. SPECIES-LANDED FORM CODE.....(Field 26)
 8. SPECIES-GRADE CODE.....(Field 27)
 9. BUYER-COMPANY CODE.....(Field 21)
6. a) Fields not applicable to a given record will be set to zeros for numeric fields and spaces for alphabetic fields.
- b) Inshore records will be denoted by a CFV field containing zeros. Provision is made for encoding supplementary records with a pseudo CFV and also for other records for which no CFV number is assigned but a unique identifier is available for the enterprise.

7. Specifications of Tapes:

Unlabeled EBCDIC character at 1600 bits per inch, 9 track. The record format is fixed blocked, the logical record length is 160, block size of 4800, that is, 30 records per block.

Table Information:

The record format is fixed blocked, the logical record length is 80, block size of 4000, that is, 50 records per block.

8. For the remainder of this document, the term **"GLOSSARY"** refers to STACAC Standards Document No. 1 entitled **Glossary and Definitions for Catch and Effort, Licensing, Domestic Quota Monitoring Systems"**

SECTION II

FILE STRUCTURE FOR ZONAL INTERCHANGE

<u>Field</u>	<u>Position</u>	<u>Description</u>	<u>Format</u>	<u>Length</u>
1	1 - 6	CFV (OR SIMILAR IDENTIFIER)	X(6)	6
2	7 - 11	GROSS TONNAGE	9(5)	5
3	12	GROSS TONNAGE CLASS CODE (VESSEL CATEGORIES)	9(1)	1
4	13 - 15	LENGTH OVERALL	9(3)	3
5	16	LENGTH OVERALL CLASS CODE (VESSEL CATEGORIES)	9(1)	1
6	17 - 21	BRAKE HORSEPOWER	9(5)	5
7	22	BRAKE HORSEPOWER CLASS CODE	9(1)	1
8	23 - 27	HOME PORT CODE	9(5)	5
9	28 - 30	HOME PORT FEDERAL ELECTORAL DISTRICT CODE	9(3)	3
10	31	GULF BASED VESSEL FLAG	9(1)	1
11	32 - 35	VESSEL COMPANY CODE	9(4)	4
12	36 - 42	QUOTA REPORT CODE	9(7)	7
13	43 - 46	TRIP NUMBER	9(4)	4
14	47 - 52	DATE LANDED (YYMMDD)	9(6)	6
15	53 - 55	UNIT AREA (CANADIAN)	X(3)	3
16	56 - 58	NAFO DIVISION	X(3)	3
17	59 - 60	GEAR CODE	9(2)	2
18	61	GEAR CLASS CODE	9(1)	1
19	62 - 66	PORT OF LANDING CODE	9(5)	5
20	67 - 69	PORT OF LANDING FEDERAL ELECTORAL DISTRICT CODE	9(3)	3
21	70 - 73	BUYER COMPANY CODE	9(4)	4
22	74 - 78	BUYER CODE	9(5)	5
23	79	SPECIES GROUP	9(1)	1
24	80 - 82	SPECIES CODE	9(3)	3
25	83	SPECIES SIZE CODE	9(1)	1
26	84	SPECIES LANDED FORM CODE	9(1)	1
27	85	SPECIES LANDED QUALITY GRADE CODE	X(1)	1
28	86	UNIT OF MEASURE CODE	X(1)	1
29	87 - 95	LANDED QUANTITY (IN ABOVE UNITS OF MEASURE)	S9(9)	9
30	96 - 104	LANDED VALUE	S9(7)V99	9
31	105 - 113	LIVE WEIGHT EQUIVALENT	S9(9)	9
32	114	EFFORT FLAG	X(1)	1
33	115 - 117	MAIN SPECIES CAUGHT CODE	9(3)	3
34	118 - 120	MAIN SPECIES SOUGHT CODE	9(3)	3
35	121	200 MILE LIMIT CODE	9(1)	1
36	122 - 124	TRIP FRACTION	99V9	3
37	125 - 127	DAYS AT SEA	99V9	3
38	128 - 130	DAYS ON GROUND	99V9	3
39	131 - 134	DAYS FISHED	99V99	4
40	135 - 138	HOURS FISHED	9(3)V9	4
41	139 - 142	AMOUNT OF GEAR	9(4)	4
42	143 - 148	DATE CAUGHT (YYMMDD)	9(6)	6
43	149	DEPTH ZONE CODE	9(1)	1
44	150	REGION CODE	X(1)	1
45	151 - 160	FILLER	X(10)	10

MACHINE READABLE FORMATS FOR REFERENCE TABLES

COMMUNITY:

<u>Item</u>	<u>Position</u>	<u>Description</u>	<u>Format</u>
01	01-05	Community Code	9(5)
02	06-35	Community Name	X(30)
03	36-38	Federal-Electoral-District-Code	9(3)
04	39-41	Adjacent NAFO Division	X(3)
05	42-44	Adjacent Unit-Area-Code	X(3)
06	45-47	Lobster-District	X(3)
07	48-51	Lobster-Season-1	9(4)
08	52-55	Lobster-Season-2	9(4)
09	56	Region-code	X(1)
10	57-80	Filler	X(24)

VESSEL:

01	01-06	CFV	X(6)
02	07-11	Gross Tonnage	9(5)
03	12	Gross Tonnage Class Code	9(1)
04	13-15	Length Overall	9(3)
05	16	Length Overall Class Code	9(1)
06	17-21	Brake Horsepower	9(5)
07	22	Brake Horsepower Class Code	9(1)
08	23-27	Home Port Code	9(5)
09	28-30	Home Port F.E.D. Code	9(3)
10	31	Gulf Based Vessel Flag	9(1)
11	32-35	Vessel Company Code	9(4)
12	36-55	Vessel Name	X(20)
13	56-80	Filler	X(25)

COMPANY:

01	01-04	Company Code	9(4)
02	05-29	Company Name	X(25)
03	30-80	Filler	X(51)

SECTION III

**ZONAL INTERCHANGE FILE CODEBOOK AND NOTES RELATED TO DATA
PROCESSING ASPECTS OF THE FILE**

1. COMMERCIAL FISHING VESSEL (CFV)

Commercial Fishing Unit or the following:

A 00000 for supplementary A information
B 00000 for supplementary B information
W nnnnn for WEIR numbers

2. GROSS TONNAGE (see GLOSSARY)

3. GROSS TONNAGE CLASS codes defined as follows:

0	not applicable
1	1 - 24.9 tons
2	25 - 49.9 tons
3	50 - 149.9 tons
4	150 - 499.9 tons
5	500 - 999.9 tons
6	1000 - 1999.9 tons
7	2000+

4. LENGTH OVERALL (see GLOSSARY)

All figures are rounded down to the nearest foot.

5. LENGTH OVERALL CLASS CODES defined as follows:

0	not applicable
1	1 - 34.9 feet
2	35 - 44.9 feet
3	45 - 64.9 feet
4	65 - 99.9 feet
5	100 - 124.9 feet
6	125+

6. BRAKE HORSEPOWER (see GLOSSARY)

7. BRAKE HORSEPOWER CLASS CODES defined as follows:

0	not applicable
1	less than 1050 Horsepower
2	greater than or equal to 1050 Horsepower

8. HOME PORT (COMMUNITY) CODING

Where:

position 1, Province Code is:

- 1 NS
- 2 NB
- 3 PEI
- 4 QUE
- 5 NFLD

position 2 - 3, Statistical District
per regional definition

position 4 - 5, Community
per regional definition by Statistical District

This code will be the key element for referencing a community file that will contain:

- 1) COMMUNITY CODE (KEY)
- 2) COMMUNITY NAME
- 3) FEDERAL ELECTORAL DISTRICT CODE
- 4) ADJACENT NAFO DIVISION
- 5) ADJACENT UNIT-AREA CODE
- 6) LOBSTER DISTRICT
- 7) LOBSTER SEASON 1
- 8) LOBSTER SEASON 2
- 9) REGION CODE

9. HOME PORT FEDERAL ELECTORAL DISTRICT CODING

This field will be the key to a Federal Electoral District name file which will contain:

- 1) FEDERAL ELECTORAL DISTRICT CODE
- 2) NAME ASSIGNED TO THE F.E.D.
- 3) EFFECTIVE MODIFICATION DATE (YYMMDD)

10. GULF BASED VESSEL FLAG Applicable only to a small number of privileged boats in the Gulf of St. Lawrence. Codes defined as follows:

- 0 not Gulf Based
- 1 Gulf Based

11. VESSEL COMPANY CODE This field will represent the company that owns the vessel. The intention is to include all vessels of companies which have vessels under individual quota management. Vessel and Buyer Company Codes will be assigned in blocks as follows:

- (i) 1 - 1999: Assigned to Newfoundland
- (ii) 2000 - 3999: Assigned to Gulf
- (iii) 4000 - 5999: Assigned to Scotia-Fundy
- (iv) 6000 - 6999: Assigned to Quebec
- (v) 7000 - 9999: Unassigned

The blocked number numbering system will be a convenience for initially allocating the companies. The numbers however, have zone wide meaning and therefore will stay the same regardless of a company's movement within the zone. Inter-regional companies will be assigned from the block of the region where their corporate headquarters is located. A unique number will be assigned to each company, that is, a company will not appear in more than one category.

This code will be the key element for referencing a company file that will contain:

- 1) Company Code
- 2) Company Name

12. QUOTA REPORT CODE A set of zone wide codes structured to represent aggregations of SPECIES, NAFO DIVISIONS, and other parameters used to define resource management units. Subfields defined as follows:

- pos: use:
- 1-3 species code
- 4-5 stock area code
- 6-7 a qualifier to designate particular categories for a given stock and area

Note: These are defined yearly from Fisheries Management Plans.

13. A number sequentially assigned starting at 1 on a yearly basis for each trip of a given vessel.
14. See GLOSSARY.
15. UNIT AREA (CANADIAN) The Unit Areas used (or finer breakdown of NAFO Divisions) are those as depicted in Hydrographic Chart 10040.
16. NAFO DIVISION The NAFO Divisions are those as depicted in Hydrographic Chart 10040.
17. GEAR CODE (See Coding Structure Manual)

18. GEAR CLASS CODE Specified for each gear on the Standard Fishing Gear Codes list. (See Coding Structure Manual)

0	unspecified
1	fixed
2	mobile

19. PORT OF LANDING CODE (same coding scheme as HOME PORT [Field 8])

20. PORT OF LANDING F.E.D. CODE (Same coding scheme as HOME PORT F.E.D. code [Field 9])

21. BUYER COMPANY CODE The inter-regional and large buyers will have this field coded on the interchange file. The use of buyer codes for smaller enterprises will be considered in the future. (Same coding scheme as VESSEL COMPANY CODE [Field 11]). This code will be the key element for referencing a company file that will contain:

1)	Company Code
2)	Company Name

22. BUYER CODE This code is defined on a regional basis for the interchange file and it is used to identify particular buyers.

23. SPECIES GROUP A code used to group species by generic type.

1	Species Codes 100 to 199
2	Species Codes 200 to 399
3	Species Codes 600 to 799

24. SPECIES CODE (See Coding Structure Manual)

25. SPECIES SIZE CODE (See Coding Structure Manual)

26. SPECIES LANDED FORM CODE (See Coding Structure Manual)

27. SPECIES LANDED QUALITY GRADE CODE Alpha codes defined as follows:

A	Grade A
B	Grade B
C	Grade C
R	Reject
U	Unknown or not applicable

28. UNIT OF MEASURE CODE An indication of the form of measurement used in Field 29. Codes defined as follows:

P	pounds
K	kilograms
G	gallons
L	litres
E	each
B	barrels

29. LANDED QUANTITY (See GLOSSARY)

30. LANDED VALUE (See GLOSSARY)

31. LIVE WEIGHT EQUIVALENT Using the Species Code, Species Size Code and the Species Landed Form Code fields, a conversion factor is extracted from a table of conversion factors approved by STACAC. This value is multiplied by the landed quantity (converted to kilos) to obtain the live weight equivalent.

32. EFFORT FLAG A field which contains a minus sign on the first record of every sub-trip (see description Section I).

33. MAIN SPECIES CAUGHT (Highest quantity of any species landed per any trip or fraction thereof).

34. MAIN SPECIES SOUGHT (Species for which the trip was planned).

35. 200 MILE LIMIT CODE A code representing fishing activity inside or outside the 200 mile limit, defined as follows:

0	within the 200 mile limit
1	outside the 200 mile limit

36. TRIP FRACTION The quantity representing the units of effort fished of a sub-trip divided by the total units of effort for the complete trip.

37. DAYS AT SEA (See GLOSSARY)

38. DAYS ON GROUND (See GLOSSARY)

39. DAYS FISHED (See GLOSSARY)

40. HOURS FISHED Used to quantify effort at the most detailed level for trawls, boat seines, and boat dredges in accordance with NAFO Statistical Bulletin Vol. 30, 1980. (See GLOSSARY)
41. AMOUNT OF GEAR Used to quantify effort at the most detailed level in accordance with NAFO Statistical Bulletin Vol. 30, 1980 for gears not handled by field 40. (See GLOSSARY)
42. DATE CAUGHT (YYMMDD)
43. DEPTH ZONE CODE Depths are coded in zones using the following definitions:

<u>Depth Zone</u>	<u>Code</u>
0 - 25 Fathoms	- 1
26 - 50 Fathoms	- 2
51 - 75 Fathoms	- 3
76 - 100 Fathoms	- 4
101 - 125 Fathoms	- 5
126 - 150 Fathoms	- 6
151 - 175 Fathoms	- 7
176 - 200 Fathoms	- 8
201 - 250 Fathoms	- 9
251 & Over	0

When Depth Zone is unknown or not given, this field will be left blank.

44. REGION CODE A code to indicate the region in which the fish was landed.
- | | |
|---|--------------|
| G | Gulf |
| N | Newfoundland |
| Q | Quebec |
| S | Scotia-Fundy |
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