



ISC16/STATWG/INFO-1

# User's Guide for Online Submission of Fishery Statistics to the ISC Database

**Statistics Working Group of ISC**

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# User's Guide for Online Submission of Fishery Statistics to the ISC Database

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コメントの追加 [JC1]: No page numbers

Combination of codes and numeric fields of statistic data

Table 1. Codes of statistic data. ●= Required; ○=If available

Codes	Category				Description
	Clc	Cle	CII	CIII	
Area size			●	●	Size of latitude/longitude grid that was used for data aggregation.
Catch disposition	●		●	●	Retained or discarded
Country	●	●	●	●	Nationality of data.
Data source				●	Data collection source of size data.
Data type			●		Length or weight for the catch amount of category II.
Effort type			●		Unit of measure used for effort.
Fleet	●	●	●	●	Subdivision of gears.
Gear	●	●	●	●	Major type of fishing gear.
Length type				●	Length measurement type.
Ocean	●	●	●	●	Fishery operation area in the Pacific Ocean north or south of the Equator; or in the entire Pacific Ocean.
Quadrant			●	●	Quadrant code of the Pacific Ocean where fishery operations occur: 4 (NW), 1 (NE), 2 (SE), 3 (SW).
Round-L				●	Rounding method for length.
Round-W				●	Rounding method for weight.
Sex				●	Sex identification code.
Species	●		●	●	Species code.
Stock			○		Stock information.
Time Period			●	●	Time period of fishery operation.
Vessel type		●			Status of vessels: active or registered.
Weight type				●	Condition of weighed fish.

コメントの追加 [JC2]: Not needed for category II and III if locations are available

**Table 2. Numeric fields and notes fields of statistic data. ●= Required; ○=if available  
Integer numbers should be used in data submission.**

Numeric fields	Category				Description
	Clc	Cle	Cll	Clll	
Amount of catch	●		●		Total amount of catch (retained or discarded) The unit is metric ton. Allowable values are “-”, “+”, and 0 to 9999999.
Amount of effort			●		Total amount of effort. Allowable values are 1 to 9999999.
Latitude			○	●	Allowable values are 0 to 60. If latitude information is not available, quadrant code is essential.
Length bin interval				●	Bin interval of length class. Allowable values are 1 to 99.
Length class				●	Class value of length. Lower limit in each bin.
Longitude			○	●	Allowable values are 70 to 179. If longitude information is not available, quadrant code is essential.
Number of vessels		●	○		Allowable values are 1 to 99999.
Number/ Frequency				●	Number of individuals or frequency. Allowable values are 0 to 999999.
Weight bin interval				●	Bin interval of weight class. Allowable values are 1 to 99.
Weight class				●	Class value of weight. Lower limit in each bin.
Year	●	●	●	●	Allowable values are 1800 to current year.
Notes	Category				Description
	Clc	Cle	Cll	Clll	
Data source note				●	This field can be used to provide additional information for source of size data.
Length type note				●	This field can be used to provide additional information for length data.
Weight type note				●	This field can be used to provide additional information for weight data.

コメントの追加 [JC3]: Highest latitude of ocean area is 60 degrees

コメントの追加 [JC4]: 70W and 120E are approximate maximum extents of Pacific Ocean

コメントの追加 [JC5]: A more appropriate value should be used

コメントの追加 [JC6]:

コメントの追加 [JC7]: A more appropriate value should be used

コメントの追加 [JC8]: A more appropriate value should be used

コメントの追加 [山崎いづみ9]:

コメントの追加 [JC10]: A more appropriate value should be used

## Format of input data

### General rules

- Input data file format should be .csv or .txt **file**.
- Do not include spaces in the title of the input file.
- Input files should be separated for each category.
- New lines can be added as needed in all categories.
- Do not add any new columns except for category II data.
- Column names and end codes are not necessary in the input file.
- Follow ISC code lists.
- Numbers with a decimal point are not accepted.
- Unit weight is **metric tons**.
- **Description of zero catch**:
  - “0”; Fishing effort was reported but no catch
  - “+”; Less than 499kg (one half metric ton) of catch
  - “-”; Unreported catch or catch information not available.
- Do not include “no effort/no catch” data.

コメントの追加 [JC11]: Are text delimiters allowed?  
For example “or”

コメントの追加 [JC12]: See  
[ftp://ftp.fao.org/FI/CDrom/CD\\_yearbook\\_2009/root/capture/symbols.pdf](ftp://ftp.fao.org/FI/CDrom/CD_yearbook_2009/root/capture/symbols.pdf)

### Category 1c (Total annual catch)

- Input data consists of 8 columns.
- Order of codes and numeric fields should be formatted as in the table below.
- Unit of measure is **metric tons** (round weight).
- If round weight is estimated from processed weight or number of fish, a detailed description of the conversion process should be documented in the metadata.
- Only the inner box (white cells) in the table below is required for the input file. column headings in the gray cells are not required.
- Annual discarded catch is also to be included in this category.

**Table 3. Example data set of annual catch (category 1c).**

**Records 1 to 9 are example of retained catch, and records 10 to 15 are discarded catch.**

Column no.	1	2	3	4	5	6	7	8
Components	Year	Country	Species	Gear	Fleet	Catch disposition	Amount of catch	Ocean
Record 1	1952	JPN	PBF	PS	3	1	76800	1
Record 2	1953	JPN	PBF	PS	3	1	55696	1
Record 3	1954	JPN	PBF	PS	3	1	53655	1
Record 4	1955	JPN	PBF	PS	3	1	140161	1
Record 5	1956	JPN	PBF	PS	3	1	209794	1
Record 6	1957	JPN	PBF	PS	3	1	181474	1
Record 7	1958	JPN	PBF	PS	3	1	85861	1
Record 8	1959	JPN	PBF	PS	3	1	99957	1
Record 9	1960	JPN	PBF	PS	3	1	105408	1
Record 10	1952	JPN	THR	LLD	2	2	224	1
Record 11	1952	JPN	DOL	LLD	2	2	365	1
Record 12	1953	JPN	BTH	LLD	2	2	432	1
Record 13	1953	JPN	SKJ	LLD	2	2	562	1
Record 14	1954	JPN	THR	LLD	2	2	125	1
Record 15	1954	JPN	SKH	LLD	2	2	492	1

**Category Ie (Total annual effort)**

- Input data consists of 7 columns.
- Order of codes and numeric fields should be formatted as in the table below.
- Only the inner box (white cells) in the table below is required for the input file. column headings in the gray cells are not required.

**Table 4. Example data set of annual effort (category Ie).**

Column no.	1	2	3	4	5	6	7
Components	Year	Country	Gear	Fleet	Number of vessels	Vessel type	Ocean
Record 1	1980	JPN	LLD	2	637	1	3
Record 2	1981	JPN	LLD	2	630	1	3
Record 3	1982	JPN	LLD	2	554	1	3
Record 4	1983	JPN	LLD	2	523	1	3
Record 5	1984	JPN	LLD	2	478	1	3
Record 6	1985	JPN	LLD	2	476	1	3
Record 7	1986	JPN	LLD	2	442	1	3
Record 8	1987	JPN	LLD	2	398	1	3
Record 9	1988	JPN	LLD	2	385	1	3
Record 10	1989	JPN	LLD	2	353	1	3

**Category II (Aggregated catch and effort)**

- Aggregated catch and effort data has **variable-length format**.
- ✦ The first 15 columns will be used to describe fishery operation information. Order of codes should be formatted as in the table below. (Table 5a and 5b)
- ✦ New columns can be added after the 15th column, in repetition of "Species", "Amount of catch" and "Stock" as required (Table 5b). There is no specific order by species (Table 5c).
- ✦ Null (blank) is acceptable only for stock code, latitude and longitude. **A comma is necessary for rightmost of each line even if stock code is not filled.**
- Unit of measure is **metric tons** (round weight).
- If round weight is estimated from processed weight or number of fish, a detailed description of the conversion process should be documented in the metadata.
  - If **lat/long information are not available**, **Quadrant code** is required to provide supplemental geographic information.

コメントの追加 [JC13]: What if catches are available in both numbers of fish and weight for the same time, area, gear, and disposition? Will they get entered as 2 rows or will the second entry overwrite the first entry?

コメントの追加 [JC14]: Should we request members to provide lat/long values with a very large "Area Size" code?

**Table 5a. The 1st to 10th columns of example data set of aggregated catch and effort (category II data).**

Type of data	Fishery operation data									
Column no.	1	2	3	4	5	6	7	8	9	10
Components	Year	Country	Gear	Fleet	Time Period	Ocean	Area size	Quadrant	Latitude	Longitude
Record 1	2004	JPN	LLD	1	6	2	5	2	0	110
Record 2	2002	JPN	LLD	1	3	1	5	1	10	155
Record 3	2004	JPN	PS	2	9	3	5	1	41	152
Record 4	2005	JPN	LLD	1	4	2	5	1	10	175
Record 5	2000	JPN	PS	2	4	2	5	1	6	144
Record 6	2003	JPN	LP	1	9	3	5	1	37	145
Record 7	2002	JPN	LP	1	3	1	5	1	11	163
Record 8	2005	JPN	LP	1	1	1	5	1	5	152

**Table 5b. The 11th to 18th columns of example data set of aggregated catch and effort (category II data).**

Type of data	Fishery operation data					Catch amount of each		
Column no.	11	12	13	14	15	16	17	18
Components	Number of vessels	Amount of effort	Effort type	Data type	Catch disposition	Species	Amount of catch	Stock
Record 1	334	70750	1	1	1	SWO	38	
Record 2	445	91001	1	1	1	ALB	1868	
Record 3	268	1	4	2	1	SKJ	150	
Record 4	568	184089	1	1	1	ALB	192	

コメントの追加 [JC15]: What is the asterisk for?



Record 5	23	3	4	2	1	YFT	180
Record 6	863	818	6	2	1	YFT	1
Record 7	954	136	6	2	1	SKJ	290
Record 8	347	581	6	2	1	YFT	70

**Table 5c. Example of variable-length format of aggregated catch and effort (category II data).**

Type of data	Catch amount of each species								
Column no.	19	20	21	22	23	24	25	26	27
Components	<i>Species 2</i>	<i>Amount of catch</i>	<i>Stock</i>	<i>Species 3</i>	<i>Amount of catch</i>	<i>Stock</i>	<i>Species 4</i>	<i>Amount of catch</i>	<i>Stock</i>
Record 1	MLS	33		BET	466		YFT	22	
Record 2	SWO	10		MLS	45		BET	235	
Record 3									
Record 4	SWO	4		MLS	24		BET	1443	
Record 5	SKJ	720							
Record 6	SKJ	1735							
Record 7									
Record 8	SKJ	3440							

### Category III (Size frequency)

- Input data consists of 26 columns.
- Order of codes should be formatted as in the tables below.
- The first 13 columns will be required constantly.
- Length information should be entered in columns from 14th to 18th, and weight information should be entered in columns from 19th to 23st. Number of individuals or frequency field is the 24nd column. The 25rd and 26th columns are used for data source and its note.
- It is not necessary that length and weight information correspond in each row.
- Size type note and weight type note can be used if the data series was derived by any specific treatment or conversion.
- If lat/long information are not available, quadrant code is required to provide supplemental geographic information.

コメントの追加 [JC16]: There needs to be an indication of whether the value represents number of individuals or a frequency value (percentage)



<Example for weight data series>

To submit weight data series, data should be put in 1st to 13th, and 19th to 26th columns.

The first 13 columns are same as for length data, and columns 14th to 18th (for length data) will be blank.

**Table 7. The 20th to 27th columns of example data set for weight data (category III).**

Type of data Column no. Components	Weight information					Frequency	Source information	
	19 Weight type	20 Weight type Note	21 Weight class	22 Weight bin interval	23 Rounding-W	24 Number/ Frequency	25 Data source	26 Data source Note
Record 1	GG		196	4	1	2	LG	
Record 2	GG		200	4	1	2	LG	
Record 3	GG		200	4	1	1	LG	
Record 4	GG		212	4	1	1	LG	
Record 5	GG		96	4	1	2	LG	
Record 6	GG		100	4	1	1	LG	
Record 7	GG		104	4	1	2	LG	
Record 8	GG		108	4	1	1	LG	

コメントの追加 [JC17]: 2 individuals or 2 percent?

#### Metadata (Data about data)

**For annual catch (category Ic):** Detailed explanation of annual catch data series should include data estimation method, coverage of data, raised or not, conversion factors used, data quality and any other definitions of transition of data by gear, by fleet and by time series. See Tables 8a & 8b.

コメントの追加 [JC18]: Manipulation?

**For catch and effort (category II):** Detailed explanation of aggregated catch and effort data series should include coverage of data, data source, raised or not, and any other definitions of transition of data by gear, by fleet and by time series. See Table 9.

Table 8a. Example of metadata for annual catch data (category 1c) series.

	Country	Gear	Ocean	<u>Start</u> <u>year</u>	<u>End</u> <u>year</u>	Fleet	Species	Sources	<u>Methodology</u> <u>estimation</u>	for
Line 1	CAN	Troll	North Pacific	1939	1951		ALB	Annual landing report	Converted from cans	
Line 2	CAN	Troll	North Pacific	1952	2011		ALB	Sales slip	Converted from sales slip	
Line 3	CAN	Purse seine	North Pacific	1960	2004		ALB			
Line 4	JPN	Set-net	North Pacific	1951	2011		ALB/ BET/ MLS/ PBF/ SKJ/ SWO/ YFT	MAFFJ		
Line 5	JPN	Drift gill-net	North Pacific	1951	2011		ALB/ BET/ BIL/ MLS/ PBF/ SFA/ SKJ/ SWO/ TUN/ YFT	MAFFJ		
Line 6	JPN	Harpoon	North Pacific	1952	2004		SWO			
Line 7	JPN	Longline	North Pacific	1951	1951		ALB/ BET/ BIL/ BLM/ BUM/ MLS/ PBF/ SFA/ SKJ/ SWO/ TUN/ YFT			
Line 8	JPN	Longline	North Pacific	1952	1957		ALB/ BET/BLM/ BUM/ MLS/ PBF/ SFA/ SKJ/ SWO/ YFT	Logbook		
Line 9	JPN	Longline	North Pacific	1958	1993		ALB/ BET/ BIL/ BLM/ BUM/ MLS/ PBF/ SKJ/ SWO/ YFT	Logbook		
Line 10	JPN	Longline	North Pacific	1994	2011		ALB/ BET/BLM/ BUM/ MLS/ PBF/ SFA/ SKJ/ SWO/ YFT	Logbook		
Line 11	JPN	Pole-and-line	North Pacific	1952	2011		ALB/ BET/ PBF/ SKJ/ YFT	Logbook		

Table 8b. Continuation of example of metadata for annual catch data (category 1c) series.

	Coverage	Raised	Data type (Number/ Weight)	Actual whole weight/ estimated weight	Quality	Notes
Line 1	Unknown	No	Weight	Not clear	POOR	Includes fish landed in Canada and imported for canning; does not include fish landed in foreign ports
Line 2	Unknown	No	Weight	NO		Underestimates catch since catches in US and foreign ports not captured and direct sales to public, i.e., dockside sales not captured
Line 3						
Line 4	100%	No	Weight			
Line 5	100%	No	Weight			
Line 6						
Line 7					POOR	
Line 8						
Line 9						
Line 10						
Line 11	>95%	Yes	Weight			Categorization of license in size of vessel has been changed. MAFFJ was used for ALB.

Table 9. Example of metadata for aggregated catch and effort (category II) series.

	Country	Gear	Ocean	Area size	Effort type	Catch type	Species	Year	Fleet	Coverage	Source	Raised
Line 1	CAN	Troll	North Pacific	1°x1°	Days fishing	Number	ALB	2005				
Line 2	CAN	Troll	North Pacific	1°x1°	Days fishing	Number	ALB	2006				
Line 3	CAN	Troll	North Pacific	1°x1°	Days fishing	Number	ALB	2007				
Line 4	CAN	Troll	North Pacific	1°x1°	Days fishing	Number	ALB	2008				
Line 5	CAN	Troll	North Pacific	1°x1°	Days fishing	Number	ALB	2011				
Line 6	JPN	Longline	North Pacific	5°x5°	Hooks	Number	ALB/ BET/ BLM/ BUM/ MLS/ PBF/ SFA/ SKJ/ SSP/ SWO/ YFT	2010				
Line 7	JPN	Longline	North Pacific	5°x5°	Hooks	Number	ALB/ BET/ BLM/ BUM/ MLS/ PBF/ SFA/ SKJ/ SSP/ SWO/ YFT	2011				
Line 8	JPN	Pole-and-line	North Pacific	1°x1°	Days fishing	Weight	ALB/ BET/ PBF/ SKJ/ YFT	2000				
Line 9	JPN	Pole-and-line	North Pacific	1°x1°	Days fishing	Weight	ALB/ BET/ PBF/ SKJ/ YFT	2001				
Line 10	JPN	Pole-and-line	North Pacific	1°x1°	Days fishing	Weight	ALB/ BET/ PBF/ SKJ/ YFT	2002				
Line 11	JPN	Pole-and-line	North Pacific	1°x1°	Days fishing	Weight	ALB/ BET/ PBF/ SKJ/ YFT	2003				
Line 12	JPN	Pole-and-line	North Pacific	1°x1°	Days fishing	Weight	ALB/ BET/ PBF/ SKJ/ YFT	2004				

















Code	Weight type
GG	Gilled & gutted
FL	Fillet
DR	Dressed weight
BM	Belly meat
OT	Other (specify it in notes)

#### Size type code

Lengths should be in centimeters, weights should be in kilograms

Code	Size type
LW	Live (round) weight
GG	Gilled & gutted
FL	Fillet
DR	Dressed weight
BM	Belly meat
OT	Other (specify it in notes)
FL	Fork length
LD1	1 <sup>st</sup> dorsal length
LD1-FL	Converted from LD1 to FL
LJFL	Lower jaw fork length (billfish)
EYF	Eye fork length
TLE	Total length
OTH	Other (specify in notes)

コメントの追加 [JC33]: A suggestion for combining the length and weight type codes



## Data submission via internet

ISC Researchers Website (ISCRW); A website is provided for data submission for ISC members including statistic data.

<https://isc.dc.affrc.go.jp/>

The site requires an account and a password to access.

Data which can be accepted in this site are:

- ✓ Statistics data
- ✓ Document files

Statistics data are imported into dedicated database via internet. Import files are required to have a specified format. Data can be downloaded using filters on various columns.

Other document files will be accepted in other formats or file extensions.

## Data submission of statistics data

<Data import> In this system, records are stored as sequences of codes and numeric fields, forming lists of simple lines of data. When users import some data (as a set of records) into the database, the system automatically starts searching for duplicate records based on 4 key codes (Country, Year, Gear, and Species). Data will be imported if no duplicate records exist in the current database. Otherwise, the imported records will replace any duplicate records in the database.

1. Log into the ISCRW. <https://isc.dc.affrc.go.jp/>
2. Select "Statistics" from the side window.
3. Click "here." next to "Import your data into data base".
4. File selection areas are separated by Data Category. Select your data file using the "Choose File" button in the file selection box in each category's section and click exe.

**Set insert or update date:** to upload new data. The data will be added if it does not include overlapping records for 4 key codes with existing data. If data include overlapping data for the 4 key codes, existing data will be replaced by new data.

**Set historical disposition data:** to add historical disposition data. This function is designed to allow users to add historical disposition data. The data will be added to the existing data series even if it include overlapping records (duplicates) for the 4 key codes.

**Set delete data:** to delete records. This function is arranged to just remove any record from existing data series without replacement with new record. Input data file should match exactly the data that the user wants to delete. Data set should be prepared in the same format with uploading

コメントの追加 [JC34]: disposition needs to be include for catch estimates and units of measure are needed for category II catch estimates

コメントの追加 [JC35]: I recommend changing this so that records are not inadvertently overwritten

コメントの追加 [山崎36]:

data for each category.

5. Data upload and format checks begin soon after clicking the “Exe” button. A message will be displayed and results notification email will be sent automatically.
6. Check the email to confirm the results of uploading. If there are some data that do not fit the format, the details will be provided on a different page. Correct the input file and re-try uploading until all the data have been corrected and uploaded.

★Database cannot accept more than one file in the same submit action. If there are more files to submit, repeat step 4 and 6.

### Data download from database

<Data download> Data can be downloaded from the database using filters on various columns.

1. Log into the ISCRW.
2. Select “Statistics” from the side window.
3. Click “[here.](#)” next to “Download data from database”.
4. Click the link to download from each Category.
5. Set filters for the data that are to be downloaded and click [Download](#).
6. Selected data will be downloaded as a .zip file into default download folder.

### Archival of stock assessment files

The data storage space for archiving stock assessment files has been established. Authorized ISC members can access this storage page, and browse the contents. [The file uploading application](#) is capable of uploading huge volumes of zip files and multi layered folders. The file uploader is available on ISCRW Assessment Data Storage page. However, downloading and uploading files are only allowed for authorized ISC members.

### Instruction for file uploader

This application is:

- Limited for Microsoft Windows OS
- Designed for alphabetical characters and Arabic numbers. No other characters are accepted.

0. (The first time) Apply for authorization to DA via email.

1. Download File Uploader from Assessment Data Storage page, and install.
2. Launch “ISCFileUploader”.

コメントの追加 [JC37]: This is useful for getting a confirmation that data was uploaded successfully or unsuccessfully, but it might be easier to display the message to the user in the web site rather than having user switch to their email.

コメントの追加 [JC38]: I don't see the uploading application, possibly because I don't have permission.

3. Create one-time password on Assessment Data Storage page.

4. Copy the password.

5. Drag-and-drop the target files and folders to uploader. A dialog box will open and a password will be required.

Files and folders should be appropriately named to identify the contents.

6. Paste the password in dialog box, and press OK. File upload will start soon.

★One-time password is valid for ten minutes after created. If validated time (ten minutes) is over, you can create password again.

## Account type and authority

Main menu	Function	Account type/ Account name			
		National data correspondent/ <i>user_***</i>	Chair of WG/ <i>chr_@@@</i>	Data manager of WG/ <i>dm_@@@</i>	Members of WG/ <i>user_@@@1</i>
Online board for WGs	Browse	X	X	X	X
	Write in		X		
	Delete				
Statistics	Submission				
	Download	X	X	X	X
Metadata	Submission/ Delete		X	X	
	Download	X	X	X	X
Working Groups	Submission/ Delete		X	X	
	Download	X	X	X	X
	Add working group		X		
Work plans/ Other	Submission/ Delete	X	X	X	X
	Download	X	X	X	X
Assessment data storage	Download file uploader		X	X	
	File submission/ Delete		X	X	
	File download		X		

\*\*\* Nation code

@@@ WG code

Examples: user\_USA, chr\_STAT

### Record of Database and Manual Revisions

Dates	Revision point	Author / Reviser
30-Mar-2016	Add code choice for fleet of Hawaii longline, and for area size code with no lat & lon information. Add the function to submit historical disposition data and to delete data. Change the authorized functions for species WG chairs.	I. Yamasaki
24-Jun-2015	Corrected instruction for CIII data format, and some code.	I. Yamasaki and M. Nagasaka
09-Jun-2015	Corrected example table of lat & lon in the user's guide.	I. Yamasaki
02-Jun-2015	Corrected quadrant code and replacement the base point. Modification of data formats and codes for CIe, CII and CIII. Revision of user's guide.	I. Yamasaki and M. Nagasaka
27-Nov-2014	Release the assessment storage system. Added account for data managers of working groups.	I. Yamasaki and M. Nagasaka
Jul-2014	Submit all of the past CIII data.	ISC members
02-Jun-2014	Added CIII functions	I. Yamasaki and M. Nagasaka
Jul-2013	Data submission to replace all of the past data, except CIII.	ISC members
Jun-2013	Replaced all of the database system, data format, and code except CIII.	I. Yamasaki and M. Nagasaka
21-May-2013	Released user's guide (CI and CIII).	I. Yamasaki and A. Nagata