

みなみまぐろ保存委員会

CCSBT-ESC/0609/08

7. Data Exchange

Purpose

To prepare the data exchange requirements for 2007.

A set of draft data exchange requirements for 2007 is provided in Attachment A. These requirements are based on the 2006 data exchange requirements. Changes have been made to the requirements for 2007 where these were considered appropriate.

Attachments B and C specify the catch effort and catch at size information that should be provided.

Prepared by the Secretariat

Draft Data Exchange Requirements for 2007

The following table shows the data that is to be provided during 2007 and the dates and responsibilities for the data provision. The changes from the 2006 requirements (excluding incrementing the year) are tracked. Comments and explanations of changes are highlighted.

Catch effort and size data should be provided in the identical format as it was provided in 2006. If the format of the data provided by a member is changed, then the new format and some test data in that format must be provided to the Secretariat by 31 January 2007 to allow development of the necessary data loading routines.

Data listed in the following table should be provided for the complete 2006 calendar year plus any other year for which the data has changed. If changes to historic data are more than a routine update of the 2005 data or very minor corrections to older data, then the changed data will not be used until discussed at the next SAG/SC meeting (unless there was specific agreement to the contrary). Changes to past data (apart from a routine update of 2005 data) must be accompanied by a detailed description of the changes.

Type of Data	Data	Due	
to provide ¹	Provider(s)	Date	Description of data to provide
Cohort slicing	Australia	31 Oct 05	The cohort slicing algorithms for cohort slicing are to
algorithms	Japan	31 000 03	be provided to the Secretariat for the Secretariat to use
uigoriumis	Jupun		when it conducts cohort slicing for the MP. These
			algorithms will also be used by the Secretariat when
			producing the CPUE inputs file that is used to
			calculate the CPUE series. Explanations and
			assistance will also be provided to the Secretariat as is
			required.
Recommendation	Taiwan	31 Dec 05	The MP data inputs working group at SC10
on split of			recommended that Taiwan's data be split between LL1
Taiwan's fishery			and LL2 based on size selectivity instead of targeting
into LL1 and			criteria. Taiwan's recommendation will be subject to
LL2 based on			intersessional discussion and agreement prior to
size selectivity			providing the revised data for the data exchange.
for MP/OM			
CCSBT Data CD	Secretariat	31 Jan 07	An update of the data (catch effort, catch at size, raised
			catch and tag-recapture) on the data CD to incorporate
			data provided in the 2006 data exchange and any
			additional data (e.g. tag/recapture) received since that
			time. The Secretariat will provided additional updates
			of the tag-recapture data during 2007 on request from
			individual members.
Total catch by	all members	30 Apr 07	Raised total catch (weight and number) and number of
Fleet	and		boats fishing by fleet and gear. These data need to be
	cooperating		provided for both the calendar year and the quota year.
	non-members		
SBT import	Japan	30 Apr 07	Weight of SBT imported into Japan by country,
statistics			fresh/frozen and month. These import statistics are
			used in estimating the catches of non-member
			countries.
Mortality	all	30 Apr 07	The mortality allowance (kilograms) that was used in
allowance (RMA	members		the 2006 calendar year. Data is to be separated by
and SRP) usage	(& Secretariat)		RMA and SRP mortality allowance. If possible, data
			should also be separated by month and location.

¹ The text "<u>For MP/OM</u>" means that this data is used for both the Management Procedure and the Operating Model. If only one of these items appears (e.g. <u>For OM</u>), then the data is only required for the specified item.

	Type of Data to provide ¹	Data Provider(s)	Due Date	Description of data to provide
F	CPUE data preparation locumentation or MP	Australia Japan New Zealand	30 April 06	Documentation specifying the data preparation process from the raw catch and effort logbook data to the final data which are used as inputs for the CPUE calculations.
6 6 6 4	Complete locumentation on the method for calculating the 5 CPUE series <u>for</u> MP	Australia Japan	30 Apr 06	oA description of the specific input data for each specific CPUE series; oComplete details of the method used to calculate the CPUE series; o Description of the software used to calculate the CPUE series, including the code used for those calculations. Depending on the nature of the code provided, a navigation document may need to be provided which describes how to run the code or where to find different components of the code.
	Catch and Effort	all members (& Secretariat)	23 Apr 07 (New Zealand) ² 30 Apr 07 (other members, South Africa & Secretariat)	Catch (in numbers and weight) and effort data is to be provided as either shot by shot or as aggregated data (New Zealand provides fine scale shot by shot data which is aggregated and distributed by the Secretariat). The maximum level of aggregation is by year, month, fleet, gear, and 5x5 degree (longline fishery) or 1x1 degree for surface fishery. A template showing the required information is provided in Attachment B of CCSBT-ESC/0609/08.
	Non-retained eatches	All members	30 Apr 07	The following data concerning non retained catches will be provided by year, month, and 5*5 degree for each fishery: Number of SBT reported (or observed) as being non-retained; Raised number of non-retained SBT taking into consideration vessels and periods in which there was no reporting of non-retained SBT; Estimated size frequency of non-retained SBT after raising; Details of the fate and/or life status of non-retained fish. An historic time series of these data should be provided in addition to the data for 2005. These data were provided for the first time in 2006. It would be appropriate to discuss the data that was provided in 2006 (including differences in what different members provided) prior to setting requirements for 2007. Discussion should also be held regarding the inclusion (or not) of mortalities associated with these non-retained catches for stock assessments and in the global catch table.
•	Research and other' nortalities	All members	30 Apr 07	Research mortalities prior to 2001 and any other forms of mortalities up to 2006 that have not been provided as part of the data exchange. Data should be provided at 5*5 by month resolution if available, but otherwise at the best available resolution. Research mortalities are reported in the global catch table back to 2001, but these figures are not used in assessments or included in the global catch because mortalities for earlier years have not yet been provided. This item has been added by the Secretariat. Members may or may not wish to include this item.

² The earlier date specified for New Zealand is so that the Secretariat will be able to process the fine scale New Zealand data in time to provide aggregated and raised data to members by 30 April.

Type of Data to provide ¹	Data Provider(s)	Due Date	Description of data to provide
RTMP catch and	Japan	30 Apr 07	The catch and effort data from the real time
effort data	Japan	30 Apr 07	monitoring program should be provided in the same
CHOIT data			format as the standard logbook data is provided.
NZ joint venture	Secretariat	30 Apr 07	Aggregated New Zealand catch and effort data, to 1*1
catch and effort	Secretariat	30 Apr 07	degrees of resolution instead of 5*5 degrees. The
data at 1*1			Secretariat will produce and provide these data to
spatial resolution			Japan only for use in the $W_{0.5}$ and $W_{0.8}$ CPUE indices
spatial resolution			produced by Japan. Other members may request
			approval from New Zealand to be provided with
			access to these data for necessary analyses.
Raised catch data	Australia,	30 Apr 07	Aggregated raised catch data should be provided at a
for AU, NZ and	Secretariat.	30 / tpi 07	similar resolution as the catch and effort data. Japan
KR catches	Korea,		and Taiwan do not need to provide anything here
KIK catches	Korca,		because they provide raised catch and effort data.
			New Zealand does not need to provide anything here
			because the Secretariat produces New Zealand's raised
			catch data from the fine scale data provided by New
			Zealand.
			In 2006, the Secretariat provided the raised catch data
			for Korea. If the raising for Korea is to be done again
			by the Secretariat, it should be specified in this table of
			requirements.
Observer length	New Zealand	30 Apr 07	Raw observer length frequency data as provided in
frequency data		1	previous years.
Raised Length	Australia,	30 Apr 07	Raised length composition data should be provided ⁴ at
Data	Taiwan,	(Australia,	an aggregation of year, month, fleet, gear, and 5x5
	Japan,	Taiwan, Japan)	degree for longline and 1x1 degree for other fisheries.
	New Zealand	7.14 07	Data should be provided in the finest possible size
		7 May 07 (New Zealand) ³	classes (1 cm). A template showing the required
		(New Zealand)	information is provided in Attachment C of CCSBT-
			ESC/0609/08.
			New Zealand will be providing a revised historic time
			series which will have very minor differences form the
			time series it provided in 2005. It was agreed that this
			changed historic data can be used prior to SAG7
DW (D.I. 3	.	20.4.07	without the need further agreement.
RTMP Length	Japan	30 Apr 07	The length data from the real time monitoring program
data			should be provided in the same format as the standard
D G: D t	17	20 4 07	length data is provided.
Raw Size Data	Korea	30 Apr 07	Raw length/weight measurement data should be
			provided by Korea instead of raised length data
			because Korea does not yet have a suitable sample size
			to produce raised length data. However, Korea is
			encouraged to improve its sample sizes of length
			frequency data in the future.

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³ The additional week provided for New Zealand is because New Zealand requires the raised catch data that the Secretariat is scheduled to provide on 30 April.

⁴ The data should be prepared using the agreed CCSBT substitution principles where practicable. It is important that the complete method used for preparing the raised length data be fully documented.

Type of Data	Data	Due	Description of July 45 months
to provide ¹ Indonesian LL	Provider(s) Australia	Date	Description of data to provide Estimates of both the age and size composition (in
SBT age and size	Australia	30 Apr 07	percent) is to be generated for the spawning season
composition			July 2005 to June 2006. Length frequency for and the
Composition			2006 calendar year and age frequency for the 2005
			calendar year is also to be provided, age frequency
			also needs to be provided.
Direct ageing	All members	30 Apr 07	Updated direct age estimates (and in some cases
data	All illelilocis	30 Apr 07	revised series due to a need to re-interpret the otoliths)
uata			from otolith collections. Data must be provided for at
			least the 2004 calendar year (see paragraph 95 of the
			2003 ESC report). The format for each otolith is:
			Flag, Year, Month, Gear Code, Lat, Long, Location
			Resolution Code ⁵ , Stat Area, Length, Otolith ID, Age
			estimate, Age Readability Code ⁶ , Sex Code,
			Comments.
			It was agreed that any revised series provided in 2006
			due to re-interpretation of otoliths can be used prior to
			SAG7 without the need further agreement.
Tag return	Secretariat	30 Apr 07	Updated summary of the number tagged and
summary data		1	recaptured per month and season.
Catch at age data	Australia,	14 May 07	Catch at age (from catch at size) data by fleet, 5*5
	Taiwan,		degree, and month to be provided by each member for
	Japan,		their longline fisheries. The Secretariat will produce
	New Zealand		the catch at age for New Zealand using the same
	Secretariat		routines it uses for the CPUE input data and the catch
			at age for the MP.
			It may be worth considering whether the Secretariat
			should also produce the catch at age for all the
			longline fisheries.
			New Zealand will be providing a revised historic time
			series which will have very minor differences form the
			time series it provided in 2005. It was agreed that this
			changed historic data can be used prior to SAG7
			without the need further agreement.
Total Indonesian	IOTC/	30 Apr 07	The Secretariat is to liaise with the IOTC to obtain the
catch by month	Secretariat	15 May 07	required data for 2006.
and % of			
Indonesian LL			The date has been put back 15 days because the IOTC
catch that is SBT			have been unable to provide figures at 30 April.

M1=1 minute, D1=1 degree, D5=5 degree.
 Scales (0-5) of readability and confidence for otolith sections as defined in the CCSBT age determination manual.

Type of Data to provide ¹	Data Provider(s)	Due	Description of data to preside
Global SBT catch	Provider(s) Secretariat	14 May 06	Description of data to provide Global SBT catch by flag and gear as provided in
by flag and by gear	Secretariat	22 May 07	recent reports of the Scientific Committee.
5			The date has been put back one week because the necessary figures are not usually available by 14 May.
Split of	Taiwan	24 May 06 ⁷	Provide the split of the Taiwanese catch (in numbers
Taiwanese catch	Tarwan	24 May 00	and weight) into the LL1 and LL2 fisheries based on
into LL1 and			size selectivity criteria. In addition to data for 2005, a
LL2			revised time series of data should be provided that
For MP/OM			uses the size selectivity criteria.
			It was agreed that this changed historic data can be
			used prior to SAG7 without the need further
			agreement.
			With the new splitting method, Taiwan does not need
			to provide this information, because the necessary
			information for the split is in the raised catch effort data provided by Taiwan.
Raised Catch at	Taiwan	24 May 06 ⁸	Provide the raised catch at length data split into the
length (2 cm		,	LL1 and LL2 fisheries. In addition to data for 2005, a
bins) for Taiwan			revised time series of data should be provided that
split into LL1			uses the size selectivity criteria
For OM			It was agreed that this changed historic data can be
101 011			used prior to SAG7 without the need further
			agreement.
			With the new splitting method, Taiwan does not need
			to provide this information, because the necessary
			information for the split is in the raised length data
D : 1 . 1 .	A 1'	2434 079	provided by Taiwan.
Raised catch-at- age (ages 0 – 30)	Australia	24 May 07 ⁹	These data will be provided to-for July 2005 to June 2006 in the same format as previously provided. The
for Australia			Indonesian catch at age should be updated for all years
surface and			(except 2003 and 2004 which were updated in the
Indonesia			2005 data exchange) because of small changes to
spawning ground			direct aging data in earlier seasons.
fisheries. For OM			
Total catch per	Secretariat	31 May 07	The Secretariat will use the various data sets provided
fishery each year			above together with previously agreed calculation
from 1952 to			methods to produce the necessary total catch by
2004.			fishery data required by both the Management
For MP/OM Cataly at lampth	Cacasta	21 M 07	Procedure and the Operating Model.
Catch-at-length (2 cm bins) and	Secretariat	31 May 07	The Secretariat will use the various catch at length and catch at age data sets provided above to produce the
catch-at-age			necessary length and age proportion data required by
proportions for			the operating model (for LL1, LL2, LL3, LL4 –
<u>OM</u>			separated by Japan and Indonesia, and the surface
			fishery). The Secretariat will also provide these catch
			at length data subdivided by sub fishery (e.g. the fisheries within LL1).
			HSHEHES WIUHH LL1).

⁷ The date is set 1 week before 31 May to provide sufficient time for the Secretariat to process this data and

produce the data required by the MP/OM on 31 May.

8 The date is set 1 week before 31 May to provide sufficient time for the Secretariat to process this data and

produce the data required by the OM on 31 May.

The date is set 1 week before 31 May to provide sufficient time for the Secretariat to incorporate these data in the data set it provides for the OM on 31 May.

Type of Data to provide ¹	Data Provider(s)	Due Date	Description of data to provide
Catch at Age for MP	Secretariat	31 May 07	Cohort slicing by month of the 5*5 raised length data provided by members. The data used would beis the data for LL1 fisheries only. For LL1 fisheries where raised length data are not available (i.e. Korea, Philippines, Miscellaneous), the Secretariat will use Japanese length frequency data as a substitute in the same manner as conducted when producing the length frequency inputs for the operating model
Global catch at age	Secretariat	31 May 07	Calculate the total catch-at-age in 2006 according to Attachment 7 of the MPWS4 report except that catchat-age for Japan in areas 1 & 2 (LL4 and LL3) is to be prepared by fishing season instead of calendar year to better match the inputs to the operating model. At present, this calculation uses catch at age data provided by members. Would it be better to use the catch at age data calculated by the Secretariat (which is the catch at age data used for both the MP (above) and for the CPUE input data (below))?
CPUE input data	Secretariat	31 May 07	Catch (number of SBT and number of SBT in each age class from 0-20+ using proportional aging) and effort (sets and hooks) data ¹⁰ by year, month, and 5*5 lat/long for use in CPUE analysis. This will be the first time that the Secretariat has generated the CPUE input data. Australia and Japan will provide any advice and assistance requested by the Secretariat in a timely manner. Minor historical differences in the historic CPUE input
			data are expected due to the revised New Zealand data and once the discrepancies between the Australian and Japanese calculation methods have been resolved. It was agreed that the revised series produced by the Secretariat be used prior to SAG7, but that members would conduct some quality control checks on the revised series before using the revisions.
Tag releases / recoveries and reporting rates. For OM	Australia	31 May 07	The RMP tag/recapture data for the period 1991-1997 will be updated for any changed/new data in the database.
Acoustic index of age 1 SBT off Western Australia	Japan	31 May 07	Estimates from the 2006/07 season sampling.
CPUE series. For OM	Australia / Japan	15 Jun 07	5 CPUE series are to be provided for ages 4+, as specified below: Nominal (Australia) Laslett Core Area (Australia) B-Ratio proxy (W0.5) (Japan) Geostat proxy (W0.8) (Japan) ST Windows (Japan) The operating model uses the median of these series.
Aerial survey index	Australia	31 Jul 07	Estimates from the 2006/07 fishing season.

 $^{^{10}}$ Data restricted to months April to September, SBT statistical areas 4-9, and the Japanese, Australian joint venture and New Zealand joint venture fleets.

Template for Aggregated catch and effort data.

rcial fishing that targeted SBT, or that caught SBT while targeting other species

(2) Contact the Secretariat for details of the required codes

(3) You can provide catch data for multiple species by placing the catch of each species on a separate line and duplicating the "effort" information (the gray shaded columns) for each line. Alternatively, you may wish to add the catch of extra species as extra columns across this spreadsheet. If you choose this option, you will need to duplicate the last 6 columns (shaded in blue)

for each species you add.

(4) If aggregating DATE to the month, you should enter the first day of the month as the date (e.g. enter Jan-02 as 01-Jan-02) (5) If you do not record the SBT STAT_AREA_CODE, but are providing latitude and longitude, then you can leave the statistical area blank because the Secretariat can easily calculate this.

(6) The LATITUDE should be in decimal degrees with S<0 and N>0. The position you supply should be the northern border of the grid

(7) The LONGITUDE should be in decimal degrees with W<0 and E>0. The position you supply should be the western border of the grid

(8) The field "N_DAYS_SEARCHED" should be considered optional until we agree on a standard method for estimating this.

(9) Certain fields are only required for certain gear types. When a field is only required for a few gear types, the codes of the required gear types are listed in red

(10) GEAR_LENGTH should be provided in metres, as total length of net set for PS and GILL, and as total length of line for LL.

(11) GEAR_DEPTH should be provided in metres, as net depth for PS and GILL, and line depth for LL. However, this should only

be provided if all shots used the same depth. In this case, provide the single depth of the net/line, NOT the sum of the depths for all shots.

(12) SPOTTER_TYPE_CODE should only be provided if a single code applied to all shots in the record.

(13) Important: If fishing was conducted in the aggregated strata, but nothing was caught (or if no "relevant" species were caught), then you must record the fishing effort information, and specify the CATCH SPECIES as "NIL". In this case, all the other catch fields would be left empty.

(14) WEIGHT_RETAINED is the whole weight of fish (of the relevant species) retained in kilograms.

(15) CONVERSION FACTOR is the value by which processed weights were multipled to estimate the whole weight.

(16) SCALING_FACTOR is the amount by which a sample weight was multiplied to calculate the weight retained. This is "1" if no

scaling was required

	CEAR ICEAR														Detaile of the eaten of a epocies									
									N_DAYS_		N_SETS_ SHOTS	N_			GEAR_ LENGTH		SPOTTER_							
	COUNTRY	FLEET	GEAR	TARGET	STAT_			N	SEARCHED	N DAYS	(GILL,LL,	HOOKS	N_ BASKETS	(TROL &	see point "10"			NUMBER_ OF POLES	САТСН	WEIGHT	CONVERSION	SCALING	NUMBER	NUMBER
	OCCITITE!								Optional - see	14_0/(10_	MWI,PS,	(LL,TROL,	DAONETO	desirable for	(PS,GILL,	(PS,GILL, optional	CODE	OF_FOLES	O/TIOII_	WEIGHT_	CONTENDION_	OOMEII4O_	TOWIDEIT_	TYOMBET.
DATE	CODE	CODE	CODE	SPECIES	CODE	LATITUDE	LONGITUDE	BOATS	point "8"	FISHED	TRAP)	HAND)	(LL)	all methods)	optional for LL)	for LL)	(PS,BB)	(BB)	SPECIES	RETAINED	FACTOR	FACTOR	RETAINED	DISCARDED

Template for Shot by Shot catch and effort data.

Notes: (1) This information should be recorded for all commercial fishing that targeted SBT, or that caught SBT while targeting other species

(2) Contact the Secretariat for details of the required codes

(3) You can provide catch data for multiple species by placing the catch of each species on a separate line and duplicating

the "effort" information (the gray shaded columns) for each line. Alternatively, you may wish to add the catch of extra species as extra columns across this spreadsheet. If you choose this option, you will need to duplicate the last 6 columns (shaded in blue) for each species you add.

(4) For DATETIME, provide either the date & time at the start of the shot, or just the date. The date/time should be provided in the format DD-MON-YY:HH:MI (e.g 15-Jan-01:16:05)

(5) If you do not record the SBT STAT_AREA_CODE, but are providing latitude and longitude, then you can leave the statistical area blank because the Secretariat can easily calculate this.

(6) The LATITUDE can be noon position, start of shot, end position, and should be in decimal degrees with S<0 and N>0.

The position you supply should be the northern border of the grid

(7) The LONGITUDE can be noon position, start of shot, end position, and should be in decimal degrees with W<0 and E>0. The position you supply should be the western border of the grid

(8) The field "N DAYS SEARCHED" should be considered optional until we agree on a standard method for estimating this.

(9) VESSEL_ID should be a unique identifier for the vessel. This can be a registration number, or a unique vessel key that hides the true identity of the vessel etc ..

(10) Certain fields are only required for certain gear types. When a field is only required for a few gear types, the codes of the required gear types are listed in red

(11) GEAR_LENGTH should be provided in metres, as total length of net set for PS and GILL, and as total length of line for LL.

(12) GEAR_DEPTH should be provided in metres, as net depth for PS and GILL, and line depth for LL.

(13) Important: If fishing was conducted, but nothing was caught (or if no "relevant" species were caught), then you must record the fishing effort information, and specify the CATCH_SPECIES as "NIL". In this case, all the other catch fields would be left empty. (14) WEIGHT_RETAINED is the whole weight of fish (of the relevant species) retained in kilograms.

(15) CONVERSION_FACTOR is the value by which processed weights were multipled to estimate the whole weight.

(16) SCALING FACTOR is the amount by which a sample weight was multiplied to calculate the weight retained. This is "1" if no

		·									_		N	GEAR_ LENGTH	GEAR_ DEPTH								
									N DAYS		NI		HOURS		see point	SPOTTER							
						STAT_			SEARCHED		HOOKS	N_	(TROL & desirable	"11" (PS.GILL.	"12"	_	NUMBER_			CONVER			NUMBER_
		COUNTRY_								VESSEL_		BASKETS	for all	optional for	optional for	CODE	OF_POLES	CATCH_	WEIGHT_	SION_	SCALING_	NUMBER_	DISCARD
DATE	TIME	CODE	CODE	CODE	SPECIES	CODE	LATITUDE	LONGITUDE	point "8"	ID	ND)	(LL)	methods)	LL)	LL)	(PS,BB)	(BB)	SPECIES	RETAINED	FACTOR	FACTOR	RETAINED	ED

Template for Catch at Size data.

Notes: (1) You should provide adjusted (raised and substituted according to agreed CCSBT protocols) catch at size data. If you are not able to adjust your raw data, then you should provide the raw (individual) length (and weight) data. Notes below in blue relate specifically to the provision of raw measurement data.

- (2) Contact the Secretariat for details of the required codes
- (3) If aggregating CAPTURE_DATE to the month, you should enter the first day of the month as the date (e.g. enter Jan-02 as 01-Jan-02).
- If aggregating to the half month, you should enter the first half month with a day of "1" and the second half month with a day of "16".
- (4) If you do not record the SBT STAT_AREA_CODE, but are providing latitude and longitude, then you can leave the statistical area blank because the Secretariat can easily calculate this.
- (5) The field "OTHER_AREA_CODE" should be completed where appropriate (e.g. Australia should record the State where these fish were captured)
- (6) The LATITUDE should be in decimal degrees with S<0 and N>0. The position you supply should be the northern border of the grid
- (7) The LONGITUDE should be in decimal degrees with W<0 and E>0. The position you supply should be the western border of the grid
- (8) LENGTH_CLASS is the lower end of the length class in centimetres. For raw measurement data, simply record the length of the particular fish.
- (9) WEIGHT is only relevant when raw (individual measurements) size data is provided, in which case, it is the weight of the fish in kilograms. When length frequency data is provided, the weight should be left empty.
- (9) CLASS_PRECISION is the size of the length class in millimetres. This is not relevant (so leave empty) for raw measurement data.
- (10) FREQUENCY_RAW. For raw measurement data, this should be "1". Otherwise, this is the number of SBT in this length class that were <u>actually measured</u> including any SBT that were measured in other units (e.g. weight) and placed in this length class after a conversion to length (i.e. this includes numbers reported in the next field).
- (11) FREQUENCY_RAW_CONVERTED. In most cases, this will be zero. It is the number of SBT that have been placed in this length class after a conversion from different units (such as weight).
- (12) FREQUENCY_ADJUSTED is the actual adjusted (raised and substituted) number of SBT in this length class. Because this is a calculated value, often involving small fractions of fish, this should be reported as a real number with up to six decimal places. Naturaly, this field should be left empty for raw measurement data.

				STAT_	OTHER_					CLASS_		FREQUENCY_	
CAPTURE_	COUNTRY_	FLEET_	GEAR_	AREA_	AREA_			LENGTH_		PRECISION	FREQUENCY_	RAW_	FREQUENCY_
DATE	CODE	CODE	CODE	CODE	CODE	LATITUDE	LONGITUDE	CLASS	WEIGHT	(=class size)	RAW	CONVERTED	ADJUSTED