



CCSBT-ESC/1609/05

Data Exchange (ESC agenda item 16)

Introduction

Draft data exchange requirements for 2017 are provided in **Attachment A**. The attachment shows the proposed data that are to be provided during 2017 and the dates and responsibilities for the data provision.

These requirements are based on the 2016 data exchange requirements with all items rolled over and with the dates incremented. There were no additional changes requested by ESC participants.

Since the last data exchange South Africa and the European Union have become full Members of the CCSBT, so data exchange requirements referring to all Members now apply to South Africa and the European Union, unless otherwise stated. All Members, and particularly South Africa and the European Union, should closely examine these requirements to determine if they are achievable and appropriate.

Catch effort and size data should be provided in the identical format as were provided in 2016. If the format of the data provided by a member is changed, then the new format and some test data in that format should be provided to the Secretariat by 31 January 2017 to allow development of the necessary data loading routines.

Data listed in Attachment A should be provided for the complete 2016 calendar year plus any other year for which the data have changed. If changes to historic data are more than a routine update of the 2015 data or very minor corrections to older data, then the changed data will not be used until discussed at the next ESC meeting (unless there was specific agreement to the contrary). Changes to past data (apart from a routine update of 2015 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
CCSBT Data	Secretariat	31 Jan 17	An update of the data (catch effort, catch at size, raised
CD			catch and tag-recapture) on the data CD to incorporate
			data provided in the 2016 data exchange and any
			additional data received since that time, including:
			 Tag/recapture data (The Secretariat will provided additional updates of the tag-recapture data during 2017 on request from individual members);
			Update the unreported catch estimates using the
			revised scenario (S1L1) produced at SAG9,
New Zealand	New Zealand	23 Apr 17	New Zealand to provide the secretariat with a summary
joint venture			of observed trips, by VesselID, for New Zealand joint
summary of			venture vessels.
observed trips			Secretariat Comment: These data are required so that
			the Secretariat can provide NZ with a summary of
			Observed catch and effort data, which is required for
			NZ preparation of joint venture shot by shot data.
Total catch by	all Members and	30 Apr 17	Raised total catch (weight and number) and number of
Fleet	Cooperating Non-		boats fishing by fleet and gear. These data need to be
	Members		provided for both the calendar year and the quota year.
Recreational	all Members and	30 April 17	Raised total catch (weight and number) of any
catch	Cooperating Non-		recreationally caught SBT if data are available. A
	Members that have		complete historic time series of recreation catch
	recreational catches		estimates should be provided (unless this has
			previously been provided). Where there is uncertainty
			in the recreational catch estimates, a description or
CDT immout	Ioman	30 Apr 17	estimate of the uncertainty should be provided.
SBT import statistics	Japan	30 Apr 17	Weight of SBT imported into Japan by country, fresh/frozen and month. These import statistics are used
statistics			in estimating the catches of non-member countries.
Mortality	all	30 Apr 17	The mortality allowance (kilograms) that was used in
allowance (RMA	Members	30 Apr 17	the 2016 calendar year. Data is to be separated by RMA
and SRP) usage	(& Secretariat)		and SRP mortality allowance. If possible, data should
and BRI) usage	(& Secretariat)		also be separated by month and location.
Catch and Effort	all Members	23 Apr 17	Catch (in numbers and weight) and effort data is to be
2	(& Secretariat)	(New Zealand) ²	provided as either shot by shot or as aggregated data
	(22 22 22 22 22 22 22 22 22 22 22 22 22		(New Zealand provides fine scale shot by shot data
		30 Apr 17	which is aggregated and distributed by the Secretariat).
		(other members	The maximum level of aggregation is by year, month,
		& Secretariat)	fleet, gear, and 5x5 degree (longline fishery) or 1x1
		31 July 17	degree for surface fishery. Indonesia will provide
		(Indonesia)	estimates based on either shot by shot or as aggregated
			data from the trial Scientific Observer Program.

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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. 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
Non-retained catches	All Members	30 Apr 17 (most all Members except Indonesia) 31 July 17 (Indonesia)	 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. Indonesia will provide estimates based on either shot by shot or as aggregated data from the trial Scientific Observer Program.
RTMP catch and effort data	Japan	30 Apr 17	The catch and effort data from the real time monitoring program should be provided in the same format as the standard logbook data is provided.
NZ joint venture catch and effort data at 1*1 spatial resolution	Secretariat	30 Apr 17	Aggregated New Zealand catch and effort data, to 1*1 degrees of resolution instead of 5*5 degrees. The Secretariat will produce and provide these data to Japan only for use in the W _{0.5} and W _{0.8} CPUE indices produced by Japan. Other members may request approval from New Zealand to be provided with access to these data for necessary analyses.
NZ joint venture catch and effort with Observers	Secretariat	27 Apr 17	A summary of NZ joint venture catch and effort data, to be provided to New Zealand only, specifying which shots had an observer on board. Secretariat Comment: These data are required so that New Zealand can provide shot by shot data for the NZ joint venture to Japan.
New Zealand joint venture shot by shot data	New Zealand	30 Apr 17	Shot by shot data for New Zealand joint venture vessels in statistical areas 5 and 6 for 2016. These data should specify which shots had an observer on board. These data are only being provided to Japan and are for use in the new CPUE index.
Raised catch data for AU, NZ catches	Australia, Secretariat	30 Apr 17	Aggregated raised catch data should be provided at a similar resolution as the catch and effort data. Japan, Korea and Taiwan do not need to provide anything here 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.
Raised number of hooks data for NZ catches	Secretariat	30 Apr 17	Raised New Zealand number of hooks data, to be provided to NZ only, generated from NZ fine scale data by the Secretariat.
Observer length frequency data Raised Length Data	New Zealand Australia, Taiwan, Japan, New Zealand, Korea	30 Apr 17 30 Apr 17 (Australia, Taiwan, Japan, Korea) 7 May 17 (New Zealand) ³	Raw observer length frequency data as provided in previous years. Raised length composition data should be provided ⁴ at an aggregation of year, month, fleet, gear, and 5x5 degree for longline and 1x1 degree for other fisheries. Data should be provided in the finest possible size classes (1 cm). A template showing the required information is provided in Attachment C of CCSBT-ESC/0609/08.

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 to provide ¹	Data Provider(s)	Due Date	Description of data to provide
Raw Length	South Africa	30 Apr 17	Raw Length Frequency data from the South African
Frequencies			Observer Program.
RTMP Length	Japan	30 Apr 17	The length data from the real time monitoring program
data		r	should be provided in the same format as the standard
			length data is provided.
Indonesian LL	Australia	30 Apr 17	Estimates of both the age and size composition (in
SBT age and	Indonesia	1	percent) is to be generated for the spawning season July
size composition			2015 to June 2016. Length frequency for the 2015
			calendar year and age frequency for the 2015 calendar
			year is also to be provided.
			Indonesia will provide size composition in length and
			weight based on the Port-based Tuna Monitoring
			Program. Australia will provide age composition data
			according to current data exchange protocols.
Direct ageing	All Members	30 Apr 17	Updated direct age estimates (and in some cases revised
data	except the EU		series due to a need to re-interpret the otoliths) from
			otolith collections. Data must be provided for at least
			the 2014 calendar year (see paragraph 95 of the 2003
			ESC report). Members will provide more recent data if
			these are available. 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 is planned that the Secretariat will provide the direct
			age estimates for Indonesia through a contract with CSIRO.
Trolling survey	Japan	30 Apr 17	Estimates of the different trolling indices (piston-line
index	vapan	30 Tipi 17	index and grid-type trolling index (GTI)) for the
			2016/17 season (ending 2017), including any estimates
			of uncertainty (e.g. CV).
Tag return	Secretariat	30 Apr 17	Updated summary of the number tagged and recaptured
summary data		1	per month and season.
Catch at age data	Australia,	14 May 17	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 the
	Secretariat		catch at age for New Zealand and Korea using the same
			routines it uses for the CPUE input data and the catch at
G1 1 1 G5 =		22.75	age for the MP.
Global SBT	Secretariat	22 May 17	Global SBT catch by flag and gear as provided in
catch by flag and			recent reports of the Scientific Committee.
by gear	A 1:	24 M 177	The day 111 and 1116 111 2017 1 2017
Raised catch-at-	Australia	24 May 17 ⁷	These data will be provided for July 2015 to June 2016 in the same format as provided
age for the Australia surface			in the same format as previously provided.
fishery			
For OM			
Raised catch-at-	Secretariat	24 May 17	These data will be provided for July 2015 to June 2016
age for	Societariat	2.1110, 17	in the same format as on the CCSBT Data CD.
Indonesia			in the same format as on the CODI Data CD.
spawning ground			
fisheries. For			
OM			

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. ⁷ The date is set 1 week before 1 June to provide sufficient time for the Secretariat to incorporate these data in the data set it provides for the OM on 1 June.

Type of Data to provide ¹	Data Provider(s)	Due Date	Description of data to provide
Total catch per fishery and sub-fishery each year from 1952 to 2016. For MP/OM	Secretariat	31 May 17	The Secretariat will use the various data sets provided above together with previously agreed calculation methods to produce the necessary total catch by fishery and total catch by sub-fishery data required by both the Management Procedure and the Operating Model.
Catch-at-length (2 cm bins) and catch-at-age proportions for OM	Secretariat	31 May 17	The Secretariat will use the various catch at length and catch at age data sets provided above to produce the necessary length and age proportion data required by the operating model (for LL1, LL2, LL3, LL4 – 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).
Global catch at age	Secretariat	31 May 17	Calculate the total catch-at-age in 2016 according to Attachment 7 of the MPWS4 report except that catch-at-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.
CPUE input data	Secretariat	31 May 17	Catch (number of SBT and number of SBT in each age class from 0-20+ using proportional aging) and effort (sets and hooks) data ⁸ by year, month, and 5*5 lat/long for use in CPUE analysis.
CPUE monitoring and quality assurance series.	Australia, Japan, Taiwan, Korea	15 Jun 17 (earlier if possible) ⁹	8 CPUE series are to be provided for ages 4+, as specified below: Nominal (Australia) B-Ratio proxy (W0.5) ¹⁰ (Japan) Geostat proxy (W0.8) (Japan) GAM (Australia) Shot x shot Base Model (Japan) Reduced Base Model (Japan) Taiwan Standardised CPUE (Taiwan) Korean Standardised CPUE (Korea)
Core vessel CPUE series <u>for</u> OM/MP	Japan	15-Jun-17 (earlier if possible)	Provide both the w0.5 and w0.8 Core Vessel CPUE Series. The OM & MP use the average of these series.
Aerial survey index	Secretariat	31 Jul 17 (every attempt will be made to provide this at least 4 weeks earlier)	Estimate of the aerial survey index from the 2016/17 fishing season, including any estimates of uncertainty (e.g. CV), if the aerial survey is conducted. The Secretariat will undertake a contract with CSIRO who will conduct the aerial survey and calculate the index.
Commercial spotting index	Australia	31 Jul 17	Estimate of the commercial spotting index from the 2016/17 season, including any estimates of uncertainty (e.g. CV), if the appropriate data are collected to generate this index.

⁸ Data restricted to months April to September, SBT statistical areas 4-9, and the Japanese, Australian joint venture and New Zealand joint venture fleets.

⁹ When there are no complications, it is possible to calculate the CPUE series less than two weeks after the CPUE input data is provided. Therefore, if there are no complications, Members should attempt to provide the CPUE series earlier than 15 June.

¹⁰ This series is based on the standardisation model by Nishida and Tsuji (1998) using all vessel data.