

CCSBT-CC/1910/SBT Fisheries – Korea (Rev.1)
(CC Agenda item 2.2)

Template for the Annual Report
to the Compliance Committee and the Extended Commission

(Revised at the Twenty-Fifth Annual Meeting: 18 October 2018)

If there are multiple SBT fisheries, with different rules and procedures applying to the different fisheries, it may be easier to complete this template separately for each fishery. Alternatively, please ensure that the information for each fishery is clearly differentiated within the single template.

This template sometimes seeks information on a quota year basis. Those Members/CNMs that have not specified a quota year to the CCSBT (i.e. the EU), should provide the information on a calendar year basis. Within this template, the quota year (or calendar year for those without a quota year) is referred to as the “fishing season”. Unless otherwise specified, information should be provided for the most recently completed fishing season. Members and CNMs are encouraged to also provide preliminary information for the current fishing season where the fishing for that season is complete or close to complete.

Table of Contents

I. Summary of MCS Improvements.....	2
(1) Improvements achieved in the current fishing season.....	2
(2) Future planned improvements	2
II. SBT Fishing and MCS Arrangements.....	2
(1) Fishing for Southern Bluefin Tuna.....	2
(2) SBT Towing and transfer to and between farms (farms only)	8
(3) SBT Transshipment (in port and at sea).....	9
(4) Port Inspections of Foreign FVs/CVs with SBT/ SBT Products on Board.....	11
(5) Landings of Domestic Product (from both fishing vessels and farms).....	12
(6) SBT Exports.....	13
(7) SBT Imports	14
(8) SBT Markets	15
(9) Other	16
III. Additional Reporting Requirements.....	17
(1) Coverage and Type of CDS Audit undertaken	17
(2) Ecologically Related Species.....	17
(3) Historical SBT Catch (retained and non-retained)	19

I. Summary of MCS Improvements

(1) Improvements achieved in the current fishing season

Provide details of MCS improvements achieved for the current fishing season.

We believe there have been significant MCS improvements in Korea since 2015, as Fisheries Monitoring Center was established in 2014 and the electronic reporting system was initiated in 2015. No further improvements to mention for the current fishing season.

(2) Future planned improvements

Describe any MCS improvements that are being planned for future fishing seasons and the expected implementation date for such improvements.

The Fisheries Monitoring System will go through an additional upgrade in order to improve risk assessment functions. Also, under the Plan of National Inspection, Korea plans to send inspectors to conduct a physical inspection onboard fishing vessels (including vessels fishing for SBT) to verify VMS/ERS unit functionalities, the amount of catches taken, transhipped, or landed, etc.

II. SBT Fishing and MCS Arrangements

(1) Fishing for Southern Bluefin Tuna

(a) Specify the number of vessels that caught SBT in each sector (e.g. authorised commercial longline, authorised commercial purse seine, authorised commercial charter fleet, authorised domestic fleet) during the previous 3 fishing seasons.

Fishing Season <i>(e.g. 2011/12)</i>	Sector 1 (<i>Commercial longline</i>)	Sector 2 (<i>please name</i>)	Sector 3 (<i>please name</i>)
	Number of vessels	Number of vessels	Number of vessels
2016/17	11		
2017/18	12		
2018/19	10		

(b) Specify the Effective Catch Limit, together with any carry-forward of quota, and the total SBT mortalities counted against the national allowance for each sector (e.g. commercial longline, commercial purse seine, commercial charter fleet, commercial domestic fleet, recreational fishing, customary and/or traditional fishing, and artisanal fishing, including any releases and/or discards) in the following 2 tables. All figures should be provided in tonnes. :-

A	B	C	D	E	F	G
Fishing Season	Effective Catch Limit ¹	Quota Carried Forward to this Fishing Season	Total Available Catch	Total of all mortalities attributed to the Member	Total amount of unfished quota Member will carry forward to next season ²	Utilisation of Allocation ³
2016/17	1,140	89.4	1,229.4	1,120.544	19.43	1,120.544
2017/18	1,140	19.43	1,159.43	1,106.607	52.541	1,106.607
2018/19	1,240.5	52.541	1,293.041	1,251.590	41.451	1,251.590

¹This is the Member's allocation plus any adjustments for agreed short term changes to the National Allocation. For example, see column 3 of Table 1 at paragraph 87 of the Report of CCSBT 24.

²This amount shall not exceed 20% of that Member's Effective Catch Limit for the year from which the quota is being carried forward.

³ A Member's allocation is fully utilised if the figure in this column (G) is the same as the Total Available Catch in column D. It's under-utilised if this column (G) is less than the Total Available Catch, and over-utilised if greater than the Total Available Catch.

Sector 1: <i>(Commercial longline)</i>		Sector 2: <i>(please name)</i>		Sector 3: <i>(please name)</i>		Sector 4: Discards	
National allowance	Mortalities (tonnes)	National allowance	Mortalities (tonnes)	National allowance	Mortalities (tonnes)	National allowance	Mortalities (tonnes)
1,229.4	1,120.544					0	0
1,154.428	1,101.607					5	5
1,293.041	1,246.590					5	5

(c) Describe the system used for controlling the level of SBT catch. For ITQ and IQ systems, this should include details on how the catch was allocated to individual companies and/or vessels. For competitive catch systems this should include details of the process for authorising vessels to catch SBT and how the fishery was monitored for determining when to close the fishery. The description provided here should include any operational constraints on effort (both regulatory and voluntary):-

Korea's national allocation is re-allocated amongst the three companies that operate 11 vessels in total, and each vessel receives individual allocation. The catch trends are closely monitored through daily catch reports provided by the vessels to MOF and NIFS. In order to prevent any quota over-run, the Korean government holds a reserve of 5% of the total national allocation (62.025 mt each year during the 2018-2020 quota bloc) as a buffer. In the 2019 fishing season, a total of 1,214.926 mt were allocated to 11 vessels under the operation of three companies as follows:

Company	Vessel Name	Individual Allocation
Dongwon Industry	No. 216 Dongwon	97.015
Dongwon Industry	KOVA	97.015
Dongwon Industry	No. 117 Dongwon	97.014
Dongwon Industry	No. 211 Dongwon	97.014
Total allocation to Dongwon Industry		388.058
Dongwon Fisheries	No. 637 Dongwon	126.164
Dongwon Fisheries	No. 638 Dongwon	126.164
Dongwon Fisheries	No. 639 Dongwon	126.165
Total allocation to Dongwon Fisheries		378.493
Sajo Industry	No. 371 Oryong	112.093
Sajo Industry	No. 373 Oryong	112.094
Sajo Industry	No. 801 Oryong	112.094
Sajo Industry	No. 805 Oryong	112.094
Total allocation to Sajo Industry		448.375
Grand Total		1,214.926

(d) Provide details of the methods used to monitor catching in the fishery by completing the table below. Details should also be provided of monitoring conducted of fishing vessels when steaming away from the fishing grounds (this does not include towing vessels that are reported in Section 2).

Monitoring Methods	Description
Daily log	Specify:

book	<p>i. <i>Whether this was mandatory. If not, specify the % of SBT fishing that was covered:-</i> Keeping a daily log book (electronic reporting system) is mandatory.</p> <p>ii. <i>The level of detail recorded (shot by shot, daily aggregate etc):-</i> The vessels fishing for SBT keep their log book on a daily basis (shot by shot). They record all the SBT-related information including the fishing date and position, effort, quantity of SBT catch (in number and weight) and discards/releases, and bycatch. They also keep accumulated catch figures every fishing day.</p> <p>iii. <i>Whether the effort and catch information collected complied with that specified in the “Characterisation of the SBT Catch” section of the CCSBT Scientific Research Plan (Attachment D of the SC5 report), including both retained and discarded catch. If not, describe the non-compliance:-</i> Following the requirements specified in the “Characterization of the SBT Catch” section of the CCSBT Scientific Research Plan, the number of hooks, fishing position, the amount of catch retained and discarded/released by species is recorded in the logbooks.</p> <p>iv. <i>What information on ERS was recorded in logbooks:-</i> It includes fishing date and position, the amount of catch, discard/release by species, the vitality status (alive or dead).</p> <p>v. <i>Who were the log books submitted to⁴:-</i> Logbooks are submitted to the Ministry of Oceans and Fisheries (MOF) and the National Institute of Fisheries Science (NIFS) of Korea. The information in the logbooks is also shared through an information sharing link with the Fisheries Monitoring Center (FMC) and the National Fishery Products Quality Management Service (NFQS-Korea’s CDS validating agency) for verification purposes.</p> <p>vi. <i>What was the time frame and method⁵ for submission:-</i> In accordance with the DWFD Act, vessels are required to submit their logbooks to the NIFS on a daily basis since September 1 of 2015.</p> <p>Under the Electronic Reporting System, all distant water fishing vessels are required to submit 10 different electronic reports to the FMC: trip, departure, entry, daily catch, transshipment request, transshipment result, exit, pre-notification, port entry and landing result.</p> <p>Vessels must acquire the approval of the FMC in order to commence transshipment operation.</p> <p>Data collected electronically is transmitted from vessels to the FMC via two-way digital satellite communication solution through an electronic reporting system unit onboard, being incorporated into the database to be managed by the FMC. The data are simultaneously provided to the NIFS for scientific analysis.</p> <p>Based on the database, the FMC conducts monitoring of Korean distant water fishing vessels in real-time, verifies transshipment, landing, quota exhaustion, and fishing days, and performs IUU risk assessment.</p> <p>vii. <i>The type of checking and verification that was routinely conducted for this information:-</i> The information in the logbooks is also shared through an information sharing link with the Fisheries Monitoring Center (FMC) and the National Fishery Products Quality Management Service (NFQS-Korea’s CDS validating agency) for verification purposes. Also, in close cooperation with the NIFS, the FMC and the NFQS, the Ministry of</p>
------	---

⁴ If the reports are not to be submitted to the Member’s or CNM’s government fisheries authority, then also specify whether the information will later be sent to the fisheries authority, including how and when that occurs.

⁵ In particular, whether the information is submitted electronically from the vessel.

	<p>Oceans and Fisheries (MOF) cross-checks submitted data with such information as the transhipped amount, the landed amount, observer data and other documentations required by the CDS Resolution.</p> <p><i>viii. Reference to applicable legislation and penalties:-</i> The applicable legislation is the DWFD Act. paragraph 1(4) and (5) Article 33 of the Act stipulates that: A person who has not fulfilled the reporting requirements for catches, transshipment and landing prescribed in paragraph (1) of Article 16 or who has made a false report thereof; or a person who has engaged in transshipment without authorization shall be subject to imprisonment of up to five years, or a criminal fine of up to five times the whole sale value of the fishery products obtained from relevant violations, based on the average wholesale prices of the products for the preceding three years; or a criminal fine at least KRW500 million up to KRW 1 billion, whichever is higher (Article 33 of the DWFD Act). A person who has violated any subparagraph referred to in this paragraph twice or more within five years shall be subject to imprisonment of up to five years or a criminal fine of up to eight times the wholesale value of the fishery products obtained from relevant violations, based on the average wholesale prices of the products for the preceding three years; or a criminal fine of up to KRW 1.6 billion, whichever is higher. As indicated here, Korea has a very strong legal tool to deter against false reporting and un-reporting.</p> <p><i>ix. Other relevant information⁶:-</i> The DWFD Act provides that Korean vessels operating in waters outside Korea’s jurisdiction shall comply with all requirements adopted by RFMOs, including those related to ERS. As mentioned in other fields of this Annual Report, the amendment to the DWFD Act has enabled the Korean government to conduct tighter MCS on activities of Korean-flagged vessels, including those related to ERS requirements. Also, fishermen on longliners are required to record on the logbooks the mitigation measures they took to reduce incidental bycatches of seabirds.</p>
<p><i>Additional reporting methods (such as real time monitoring programs)</i></p>	<p><i>If multiple reporting methods exists (e.g. daily, weekly and/or month SBT catch reporting, reporting of tags and SBT measurements, reporting of ERS interactions etc), create a separate row of in this table for each method. Then, for each method, specify:</i></p> <p><i>i. Whether this was mandatory. If not, specify the % of SBT fishing that was covered:-</i></p> <p><i>ii. The information that was recorded (including whether it relates to SBT or ERS):-</i></p> <p><i>iii. Who the reports were submitted to and by whom (e.g. Vessel Master, the Fishing Company etc)⁴:-</i></p> <p><i>iv. What was the timeframe and method⁵for submission:-</i></p> <p><i>v. The type of checking and verification that was routinely conducted for this information:-</i></p> <p><i>vi. Reference to applicable legislation and penalties:-</i></p> <p><i>vii. Other relevant information⁶:-</i></p>
<p><i>Scientific Observers</i></p>	<p><i>Specify:</i></p> <p><i>i. The percentage of the SBT catch and effort observed and the total number of days that observers were actually deployed for in the three previous seasons for each sector (e.g. longline, purse seine, commercial charter fleet, domestic fleet). The unit of effort should be hooks, sets and tows for longline, purse seine and towing respectively:-</i></p>

⁶ Including information on ERS, and comments on the effectiveness of the controls or monitoring tools and any plans for further improvement.

Fishing Season (e.g. 2011/12)	Commercial longline		Obs. days deployed	Sector 2		Obs. days deployed	Sector 3		Obs. days deployed
	% effort obs.	% catch obs.		% effort obs.	% catch obs.		% effort obs.	% catch obs.	
2016/17	19	16	338						
2017/18	18	17	310						
2018/19	21	19	360						

ii. *The system used for comparisons between observer data and other catch monitoring data in order to verify the catch data:-*

To compare observer data and other monitored catch data (logbook and CDS), the NIFS conducts debriefing works through national observer programs. In addition, the NIFS cross-checks those data using various information sources such as VMS records accessed through the FMC database, and import/export data or CDS data issued by NFQS.

iii. *Excluding the coverage, specify whether the observer program complied with the CCSBT Scientific Observer Program Standards. If not, describe the non-compliance. Also indicate whether there was any exchange of observers between countries:-*

Korea's observer programs are in line with CCSBT Scientific Observer program Standards.

iv. *What information on ERS was recorded by observers:-*

Species composition of ERS and other bycatch, retention and discard/release (in number or weight), seabirds mitigation measures used, ERS interactions, length and weight, sex, maturity, stomach contents, tag release and recapture, marine mammals and ERS sightings, depredation, etc.

v. *Who were the observer reports submitted to:-*

The observer reports were submitted to the National Institute of Fisheries Science (NIFS)

vi. *Timeframe for submission of observer reports:-*

The observer shall submit a trip report in one month from the point when observer activities are completed.

vii. *Other relevant information (including plans for further improvement – in particular to reach coverage of 10% of the effort):-*

To ensure the quality of observers and the required observer coverage, the National Institute of Fisheries Science(NIFS) has been implementing observer training and education programs. To achieve the representative coverage by season and area, the NIFS establishes annual observer operation plan in consultation with fishing companies before commencing the fishing season.

<p>VMS</p> <p>The items of "ii" are required in association with the Resolution on establishing the CCSBT Vessel Monitoring System</p>	<p>For Member-flagged authorised carrier vessels and fishing vessels fishing for or taking SBT specify:</p> <p>i. Whether a mandatory VMS that complies with CCSBT's VMS resolution was in operation. If not, provide details of non-compliance and plans for further improvement:-</p> <p>All Korean-flagged fishing vessels fishing for SBT are in full compliance with the CCSBT VMS requirements, whose track records and positions are constantly monitored.</p> <p>ii. For the most recently completed fishing season, specify:</p> <ul style="list-style-type: none"> • The number of its flag 1) fishing vessels (FVs) and 2) carrier vessels (CVs) that were required to report to a National VMS system:- <ul style="list-style-type: none"> 1) FVs:13(registered vessels) 2) CVs:5(registered vessels) • The number of its flag 1) fishing vessels (FVs) and 2) carrier vessels (CVs) that actually reported to a National VMS system:- <ul style="list-style-type: none"> 1) FVs:10(active vessels) 2) CVs:2(active vessel) • Reasons for any non-compliance with VMS requirements and action taken by the Member:- <p>There were no cases of non-compliance with VMS requirements in 2018/19 fishing season.</p> • In the event of a technical failure of a vessel's VMS, the vessel's geographical position (latitude and longitude) at the time of failure and the length of time the VMS was inactive should be reported:- <p>No technical failure occurred. In case of technical failure, the master must transmit the positions and navigational tracks through an alternative means every two hours to the FMC.</p> • The procedures used for manual reporting in the event of a VMS failure (e.g. "manual position reporting on a 4 hourly basis"):- <p>The Regulation for the Operation of the Fisheries Monitoring Center requires that, in the case where the VMS fails to function properly on a fishing vessel, the head of the FMC shall require the master of the vessel to transmit the positions and navigational tracks through an alternative means every two hours to the FMC.</p> <p>Also, the master or the operator of a vessel whose VMS has failed shall have the device repaired or replaced within 30 days of such failure. In the case where the master or the operator cannot have the VMS repaired or replaced within the required 30-day timeframe, he or she shall cease the operation immediately and return the vessel to the nearest port for repair and replacement of the device.</p> • A description of any investigations initiated in accordance with paragraph 3(b) of the CCSBT VMS resolution including progress to date and any actions taken:- <p>There were no cases of non-compliance with VMS requirements in 2018/19 fishing season.</p> <p>iii. Reference to applicable legislation and penalties:-</p> <p>Article 15 of the DWFD Act requires the installation of a VMS both on fishing vessels as follows:</p> <p>(1) A distant water fisheries operator shall have a vessel monitoring system (hereinafter referred to as "VMS") installed on the authorized fishing vessel under Article 6 (1) prior to departure from the port.</p> <p>(2) A vessel registered as a carrier vessel for overseas service for fish and fishery products pursuant to paragraph (2) of Article 24 of the Marine Transportation Act shall</p>
--	---

	<p>be fitted with a VMS.</p> <p>Article 13 of the Act also defines “not having a vessel fitted with a vessel monitoring system (VMS) or intentionally tampering with the VMS or rendering it non-functional” as a serious infringement, which is subject to imprisonment of up to five years, or a criminal fine of up to five times the whole sale value of the fishery products obtained from relevant violations, based on the average wholesale prices of the products for the preceding three years; or a criminal fine at least KRW500 million up to KRW 1 billion, whichever is higher. A person who has violated any subparagraph referred to in this paragraph twice or more within five years shall be subject to imprisonment of up to five years or a criminal fine of up to eight times the wholesale value of the fishery products obtained from relevant violations, based on the average wholesale prices of the products for the preceding three years; or a criminal fine of up to KRW 1.6 billion, whichever is higher.</p>
At-Sea Inspections	<p>Specify:</p> <p>i. The coverage level of at sea inspections (e.g. % of SBT trips inspected):- Korea did not conduct any at-sea inspection in the reported year.</p> <p>ii. Other relevant information⁶:-</p>
Other (use of masthead cameras etc.)	

(e) Report on the review of internal actions and measures taken in relation to the authorised vessel requirements provided at Attachment A, including any punitive and sanction actions taken.

(2) SBT Towing and transfer to and between farms (farms only)

(b) Describe the system used for controlling and monitoring towing of SBT from the fishing ground to the farming area. This should include details of:

- i. Observation required for towing of SBT (include % coverage):-
- ii. Monitoring systems for recording losses of SBT (in particular, SBT mortality):-

(c) Describe the system used for controlling and monitoring transferring of SBT from tow cages into farms. This should include details of:

- i. Inspection/Observation required for transfer of SBT (include % coverage):-
- ii. Monitoring system used for recording the quantity of SBT transferred:-
- iii. Plans to allow adoption of the stereo video systems for ongoing monitoring:-

(d) For “b” and “c” above, describe the process used for completing, validating⁷and collecting the relevant CCSBT CDS documents (Farm Stocking Form, Farm Transfer Form):-

(e) Other relevant information⁶

⁷ Including the class of person who conducts this work (e.g. government official, authorised third party)

(3) SBT Transhipment (in port and at sea)

(a) In accordance with the Resolution on Establishing a Program for Transhipment by Large-Scale Fishing Vessels, report:

i. The quantities of SBT transhipped at sea and in port during the previous fishing season:-

Fishing Season <i>(e.g. 2011/12)</i>	Percentage of the annual SBT catch transhipped at sea	Percentage of the annual SBT catch transhipped in port
2018/19	100%(1,003,152kg)	0%

ii. The list of the LSTLVs registered in the CCSBT Authorised Vessel List which have transhipped at sea and in port during the previous fishing season:-

At sea	In port
KOVA	
No. 211 Dongwon	
No. 637 Dongwon	
No. 638 Dongwon	
No. 639 Dongwon	
No. 371 Oryong	
No. 373 Oryong	
No. 801 Oryong	
No. 805 Oryong	

iii. A comprehensive report assessing the content and conclusions of the reports of the observers assigned to carrier vessels which have received at-sea transhipments from their LSTLVs during the previous fishing season:-

At-sea transhipments of SBT took place in both IOTC area and ICCAT area. 424t and 579t of SBTs were transhipped in ICCAT area and IOTC area respectively.

The level of compliance with CCSBT, IOTC and ICCAT measures by Korean long-line vessels was generally good, although there were some minor issues in relation to numbering of logbook and vessel markings.

These issues were addressed immediately following the communications from the Secretariat and the actions taken by the Government of Korea were notified to the Secretariat of the relevant RFMO.

(b) Describe the system used for controlling and monitoring transhipments in port. This should include details of:

i. Flag State rules for and names of:

-designated foreign ports where SBT may be transhipped, and

- foreign ports where in-port transhipments of SBT are prohibited:-

Most of Korean SBT vessels usually tranship at Cape Town, South Africa and Port Louis, Mauritius and land at Shimizu port of Japan. Korea has a Regulation on transhipment and landing of catches taken from waters outside Korea's jurisdiction.

ii. Flag State inspection requirements for in-port transhipments of SBT (include % coverage):-

Article 14 of the DWFD Act stipulates port inspection on vessels entering Korean ports retaining fish and fish products taken from waters outside Korea's jurisdiction

In accordance with the Regulation on transhipment and landing of catches taken from waters outside Korea's jurisdiction, all distant water fishing vessels shall obtain the government's approval prior to transhipment, and the results of transhipments are submitted to the FMC and maintained on the FMC database.

iii. Information sharing with designated Port States:-

Korea does not have information sharing arrangements with port states but communicates with them on a case-by-case basis if necessary.

iv. *Monitoring systems for recording the quantity of SBT transhipped:-*

In accordance with the Regulation on transhipment and landing of catches taken from waters outside Korea's jurisdiction, all distant water fishing vessels shall obtain the government's approval prior to transhipment, and the results of transhipments are submitted to the FMC and maintained on the FMC database.

v. *Process for validating⁷ and collecting the relevant CCSBT CDS documents (Catch Monitoring Form, Catch Tagging Form):-*

All Korean distant water fishing vessels are required to obtain a permit from the FMC prior to making transhipment and must submit an application within 24 hours before the estimated time of transhipment. When considering transhipment application, the FMC verifies whether or not the vessel has a license issued by both the flag and coastal states; listed on IUU lists, and duly registered to relevant registries. The FMC database includes comprehensive data such as the license information, VMS tracks, transhipment and landing information.

vi. *Reference to applicable legislation and penalties:-*

Article 13 of the DWFD Act makes it mandatory for distant water fisheries operators to fully comply with RFMO measures, including CCSBT requirements regarding transhipment. Also, the transhipment by Korean-flagged distant water fishing vessels is further governed by Article 16 of the DWFD Act and the Ministerial Directive on the Reporting of Transhipment and Landing by Korean-flagged Distant Water Fishing Vessels, which requires the flag state's permit prior to transhipment. Transhipment without the permission is subject to imprisonment of up to five years, or a criminal fine of up to five times the whole sale value of the fishery products obtained from relevant violations, based on the average wholesale prices of the products for the preceding three years; or a criminal fine at least KRW500 million up to KRW 1 billion, whichever is higher (Article 33 of the DWFD Act)

vii. *Other relevant information⁶:-*

(c) *Describe the system used for controlling and monitoring transhipments at sea. This should include details of:*

i. *The rules and processes for authorising transhipments of SBT at sea and methods (in addition to the presence of CCSBT transhipment observers) for checking and verifying the quantities of SBT transhipped:-*

In accordance with the Regulation on transhipment and landing of catches taken from waters outside Korea's jurisdiction, all distant water fishing vessels shall obtain the government's approval prior to transhipment, and the results of transhipments are submitted to the FMC and maintained on the FMC database.

ii. *Monitoring systems for recording the quantity of SBT transhipped:-*

All Korean distant water fishing vessels are required to obtain a permit from the FMC prior to making transhipment and must submit an application within 24 hours before the estimated time of transhipment. The results of transhipments are submitted to the FMC and maintained on the FMC database.

iii. *Process for collecting the relevant CCSBT CDS documents (Catch Monitoring Form, Catch Tagging Form):-*

National Fishery Products Quality Management Services(NFQS) manages CCSBT CDS documents. It collects CDS documents from fishing vessels operators, exporters and importers and submits the documents to the Ministry of Oceans and Fisheries on a quarterly basis.

iv. *Reference to applicable legislation and penalties:-*

Article 13 of the DWFD Act makes it mandatory for distant water fisheries operators to fully comply with RFMO measures, including CCSBT requirements regarding transhipment. Also, the transhipment by Korean-flagged distant water fishing vessels is further governed by

Article 16 of the DWFD Act and the Ministerial Directive on the Reporting of Transshipment and Landing by Korean-flagged Distant Water Fishing Vessels, which requires the flag state's permit prior to transshipment. Transshipment without the permission is subject to imprisonment of up to five years, or a criminal fine of up to five times the whole sale value of the fishery products obtained from relevant violations, based on the average wholesale prices of the products for the preceding three years; or a criminal fine at least KRW500 million up to KRW 1 billion, whichever is higher (Article 33 of the DWFD Act)

v. *Other relevant information*⁶:-

(4) Port Inspections of Foreign FVs/CVs with SBT/SBT Products on Board

This section provides for reporting with respect to the CCSBT's Scheme for Minimum Standards for Inspection in Port. It should be filled out by Port State Members that have authorised foreign Fishing Vessels/Carrier Vessels carrying SBT or SBT products to enter their designated ports for the purpose of landing and/or transshipment. Only information for landings/transshipments of SBT or SBT products that have NOT been previously landed or transhipped at port should be included in the table below.

i. *Provide a list of designated ports into which foreign FVs/ CVs carrying SBT or SBT product may request entry:-*

Port Name	Port Code	Geographical position	
		Latitude (+North/-South)	Longitude (+East/-West)
Port Name	Port Code	Latitude	Longitude
Busan	KR PUS	3508N	12903E
Ulsan	KR USN	3532N	12919E
Pohang	KR KPO	3602N	12922E
Donghae·Mukho	KR TGH	3729N	12907E
Masan	KR MAS	3512N	12834E
Yeosu	KR YOS	3445N	12743E
Gwangyang	KR KAN	3456N	12742E
Mokpo	KR MOK	3448N	12623E
Gunsan	KR KUV	3559N	12643E
Pyeongtaek Dangjin	KR PTK	3658N	12706E
Janghang	KR CHG	3600N	12641E
Daesan	KR TSN	3700N	12622E
Gyeongin	KR GIN	3732N	12636E
Incheon	KR INC	3727N	12637E
Sokcho	KR SHO	3812N	12835E
Okgye	KR OKK	3736N	12902E
Samcheok	KR SUK	3726N	12911E
Hosan	KR HAS	3710N	12921E
Jinhae	KR CHF	3508N	12839E
Gohyeon	KR KHN	3453N	12837E
Okpo	KR OKP	3453N	12842E
Jangseungpo	KR JSP	3430N	12826E
Samcheonpo	KR SCP	3455N	12804E

Tongyeong	KR TYG	3450N	12825E
Hadong	KR HDG	3542N	12745E
Wando	KR WND	3418N	12645E
Seogwipo	KR SPO	3314N	12633E
Jeju	KR CHA	3330N	12631E
Boryeong	KR BOR	3619N	12630E
Taeon	KR TAN	3643N	12616E
Seoul	KR SEL	3731N	12656E

ii. Provide the minimum number of hours of notice required for foreign FVs/CVs carrying SBT or SBT product to request authorisation to enter these designated ports:-
at least 48 hours before entering into a designated port in Korea

iii. For the most recent whole calendar year, provide information about the number of landing/transshipment operations that foreign FVs/CVs carrying SBT or SBT product made in port, the number of those landing/transshipment operations that were inspected, and the number of inspections where infringements of CCSBT's measures were detected:-

Calendar Year	Foreign Flag	No. of Landing/ Transshipment Operations (that occurred)	No. of Landing/ Transshipment Operations Inspected	No. of Landing/ Transshipment Operations where an Infringement of CCSBT's Measures was Detected
2018	LIBERIA	1	1	0
	TOTAL NUMBER	1	1	0

(5) Landings of Domestic Product (from both fishing vessels and farms)

(a) Specify the approximate percentage of the annual SBT catch that was landed as domestic product.

(b) Describe the system used for controlling and monitoring domestic landings of SBT. This should include details of:

i. Rules for designated ports of landing of SBT:-

The DWFD Act provides a legal ground for the domestic application of all effective measures adopted by RFMOs which Korea is a member of or a contracting party to. Therefore, it can be construed that landing of SBT at designated port is also covered by the DWFD Act.

ii. Inspections required for landings of SBT (including % coverage):-

As for domestic landings, Article 14 of the DWFD Act stipulates port inspection on vessels entering Korean ports retaining fish and fish products, including SBT, taken from waters outside Korea's jurisdiction. Also Article 23 of the Implementation Rules for the Act grants the government the authorities to conduct landing inspections as deemed necessary.

iii. Details of genetic testing conducted and any other techniques that are used to verify that SBT are not being landed as a different species:-

Korea did not conduct genetic testing for SBT export in the reported year.

iv. Monitoring systems for recording the quantity of SBT landed:-

Port inspection includes the verification of the quantity of SBT landed and the government has the authorities to conduct landing inspections as deemed necessary. Post-landing reports, including the amount landed, are also mandatory and must be submitted to the government within 24 hours of the time of landing.

- v. *Process for validating⁷ and collecting the relevant CCSBT CDS documents (Catch Monitoring Form, and depending on circumstances, Catch Tagging Form):-*

The FMC database includes comprehensive data such as the license information, VMS tracks, transshipment and landing information. The NFQS has a full access to the database and reference to this information in the process of CDS verification and validation.

- vi. *Reference to applicable legislation and penalties:-*

The DWFD Act and its subordinate rules and ordinances; the Ministerial Directive on the implementation of the CCSBT CDS Requirements; and the Regulation for Transshipment and Landing of Catches Taken from Waters outside Korea's Jurisdiction cover this issue. Article 25 of the DWFD Act requires all distant water fishing vessels to report the estimated amount of landing to the government within 24 hours prior to the estimated time of arrival. Unreported landing is subject to imprisonment of up to five years, or a criminal fine of up to five times the whole sale value of the fishery products obtained from relevant violations, based on the average wholesale prices of the products for the preceding three years; or a criminal fine at least KRW500 million up to KRW 1 billion, whichever is higher (Article 33 of the DWFD Act).

- vii. *Other relevant information⁶:-*

(6) SBT Exports

(a)

i. *Specify the quantity of the domestic catch that was exported and provide an estimate of the total quantity of the domestic SBT catch (weight in tonnes to 1 decimal place) that was retained within the country/fishing entity(i.e. the quantity can be estimated by subtracting the total export from domestic catch)during each of the last 3full calendar years to each country/fishing entity. All weights provided in this table should be net weights, not whole weights.*

Calendar Year ⁸	Estimate of retained within the country/fishing entity (Domestic catch- Export)	SBT Exported to							
		Japan	:	:	:	:	:	:	:
2016	312.1	312.1							
2017	879.8	879.8							
2018	1,276.9	1,276.9							

- ii. *Specify the quantity of imported catch that was re-exported*

Calendar Year ⁸	SBT Re-exported to							
	USA	Japan	:	:	:	:	:	:
2016	5.1	6.0						
2017	6.5	126.3						
2018	7.4	466.5						

⁸ "Calendar year" refers to the calendar year of the (re-)export date

(b) Describe the system used for controlling and monitoring exports of SBT (including of landings directly from the vessel to the foreign importing port). This should include details of:

- i. *Inspections required for export of SBT (including % coverage):-*
The NFQS establishes an annual inspection plan to be conducted in a foreign exporting port and enforcement officers conduct inspections according to the plan in the port where most of landings occur.
- ii. *Details of genetic testing conducted and any other techniques that are used to verify that SBT are not being exported as a different species:-*
Korea did not conduct genetic testing for SBT export in the reported year.
- iii. *Monitoring systems for recording the quantity of SBT exported:-*
The NFQS conducts close monitoring on recording the quantity of SBT exported.
- iv. *Process for validating⁷ and collecting the relevant CCSBT CDS documents (Catch Monitoring Form and depending on circumstances, Catch Tagging Form or Re-export/Export after landing of domestic product Form):-*
The master of a SBT fishing vessel requests the validation for CDS, accompanying required documents including fishing licenses, CMF and CTF. The NFQS verifies the veracity of the information cross-checking various data prior to the validation of CDS. When any required document is missing or the veracity of information is not verified, the NFQS rejects the validation. The REEF is validated only when all required information is submitted, and the products to be re-exported are consistent with the ones covered by the relevant CDS and the copy of the CDS is accompanied
- v. *Reference to applicable legislation and penalties:-*
Article 4 of the Ministerial Directive on the implementation of the CCSBT CDS Requirements. Unreported export is subject to imprisonment of up to five years, or a criminal fine of up to five times the whole sale value of the fishery products related to the relevant violations, based on the average wholesale prices of the products for the preceding three years; or a criminal fine at least KRW500 million up to KRW 1 billion, whichever is higher (Article 33 of the DWFD Act).
- vi. *Other relevant information⁶:-*

(7) SBT Imports

(a) Specify the total quantity of SBT (weight in tonnes to 1 decimal place) imported during each of the last 3 full calendar years from each country/fishing entity. All weights provided in this table should be net weights, not whole weights.

Calendar Year ⁸	SBT Imported from								
	Japan	Australia	Indonesia		⋮	⋮	⋮	⋮	⋮
2016	1,188.5								
2017	548.0	334.0							
2018	421.8	278.2	0.03						

(b) Describe the system used for controlling and monitoring imports of SBT. This should include details of:

- i. *Rules for designating specific ports for the import of SBT:-*

The Ministerial Directive on the implementation of the CCSBT CDS Requirements revised in Sep 2016 is in place, which provides a valid ground for domestic application of CCSBT CDS Resolution.

ii. *Inspections required for imports of SBT (including % coverage):-*

When a ship laden with overseas catches intends to enter a domestic port, it shall submit an entry report to the Minister of Oceans and Fisheries, along with documents indicating the names and quantity of catches, such as certificates of catches, at least 48 hours before the scheduled entry to the port, as prescribed by Ordinance of the Ministry of Oceans and Fisheries. Where there is sufficient evidence that a ship which has submitted a report conducted or assisted illegal, unreported, or unregulated fisheries, the Minister of Oceans and Fisheries may prohibit the entry into the port of the ship. The Minister of Oceans and Fisheries may instruct public officials in charge of port state inspections prescribed by Ordinance of the Ministry of Oceans and Fisheries, to board a ship that reported its entry to a port and conduct an inspection on catches, logbooks, documents, or other things suspected of being involved in illegal, unreported, or unregulated fishing or make inquiries of people involved. The coverage is 7.6%.

iii. *Details of genetic testing conducted and any other techniques that are used to verify that SBT are not being imported as a different species:-*

Korea did not conduct genetic testing for SBT export in the reported year.

iv. *Process for checking and collecting CCSBT CDS documents (Catch Monitoring Form and depending on circumstances, Re-export/Export after landing of domestic product Form):-*

Korea introduced the Ministerial Directive on the implementation of the CCSBT CDS Requirements to ensure the compliance with CDS Resolution. Korea also has a plan to revise DWFD Act in order to strengthen the implementation and oblige all stakeholders, including importers, involved in the SBT distribution processes to comply with the CDS Resolution.

v. *Reference to applicable legislation and penalties:-*

Article 4 of the Ministerial Directive on the implementation of the CCSBT CDS Requirements. Unreported import is subject to imprisonment of up to five years, or a criminal fine of up to five times the whole sale value of the fishery products related to the relevant violations, based on the average wholesale prices of the products for the preceding three years; or a criminal fine at least KRW500 million up to KRW 1 billion, whichever is higher (Article 33 of the DWFD Act).

vi. *Other relevant information⁶:-*

(8) SBT Markets

(a) Describe any activities targeted at points in the supply chain between landing and the market:-

Most of the SBT caught by Korean-flagged fishing vessels are landed at a designated foreign port mainly in Japan (Shimizu). Enforcement officers from the Korean competent authority (NFQS) occasionally join the landing site to ensure the landing activity.

(b) Describe the system used for controlling and monitoring of SBT at markets (e.g. voluntary or mandatory requirements for certain documentation and/or presence of tags, and monitoring or audit of compliance with such requirements):-

Most SBT caught by Korean-flagged vessels are exported. If there are any SBT traded in Korea's domestic market, it would be regulated by the Act on the Management and Support of the Marketing of Fish and Fisheries Products, which has been taken effect since 28 March 2016. Article 37(4) of the Act prohibits the trade of any fish and fisheries products that are harvested or captured in violation of relevant provisions of the DWFD Act, which are generally in line with serious infringements stipulated by UNFSA and FAO IPOA-IUU.

(c) Other relevant information⁶

(9) Other

Description of any other MCS systems of relevance.

III. Additional Reporting Requirements

(1) Coverage and Type of CDS Audit undertaken

As per paragraph 5.9 of the CDS Resolution, specify details on the level of coverage and type of audit undertaken, in accordance with 5.8⁹ of the Resolution, and the level of compliance.

In accordance with the Ministerial Directive on the implementation of the CCSBT CDS Requirements, CDS validation and compliance records are being monitored and examined. Also, the NFQS, Korea's CDS validation authorities, cross-checks information on CDS with relevant data maintained by the FMC and NIFS.

(2) Ecologically Related Species

(a) Reporting requirements in relation to implementation of the 2008 ERS Recommendation:

- i. *Specify whether each of the following plans/guidelines have been implemented, and if not, specify the action that has been taken towards implementing each of these plans/guidelines:-*
- *International Plan of Action for Reducing Incidental Catches of Seabirds in Longline Fisheries:*

Korea has implemented its National Plan of Action for Reducing Incidental Catches of Seabirds in Longline Fisheries(NPOA-Seabirds) since 2014 in accordance with the FAO IPOA-Seabirds.

- *International Plan of Action for the Conservation and Management of Sharks:*

Korea has implemented its National Plan of Action for the Conservation and Management of Sharks since 2014 in accordance with the FAO IPOA-Sharks.

- *FAO Guidelines to reduce sea turtle mortality in fishing operations:*

Korea has implemented the FAO guidelines to reduce sea turtle mortality in fishing operations.

- ii. *Specify whether all current binding and recommendatory measures¹⁰ aimed at the protection of ecologically related species¹¹ from fishing of the following tuna RFMOs are being complied with. If not, specify which measures are not being complied with and the progress that is being made towards compliance:-*

- *IOTC, when fishing within IOTC's Convention Area:*

The DWFD Act requires that the relevant IOTC measures be fully complied with, and vessels are in full compliance when they operate in the IOTC Area.

- *WCPFC, when fishing within WCPFC's Convention Area:*

The DWFD Act requires that the relevant WCPFC measures be fully complied with, and vessels are in full compliance when they operate in the WCPFC Area.

- *ICCAT, when fishing within ICCAT's Convention Area:*

The DWFD Act requires that the relevant ICCAT measures be fully complied with, and vessels are in full compliance when they operate in the ICCAT Area.

- iii. *Specify whether data is being collected and reported on ecologically related species in accordance with the requirements of the following tuna RFMOs. If data are not being collected and reported in accordance with these requirements, specify which measures are not being complied with and the progress that is being made towards compliance:-*

⁹ Paragraph 5.8 of the CDS Resolution specifies that "Members and Cooperating Non-Members shall undertake an appropriate level of audit, including inspections of vessels, landings, and where possible markets, to the extent necessary to validate the information contained in the CDS documentation."

¹⁰ Relevant measures of these RFMOs can be found at: http://www.ccsbt.org/site/bycatch_mitigation.php.

¹¹ Including seabirds, sea turtles and sharks.

- *CCSBT*¹²:

Korea collects and reports the data on ecologically related species in accordance with the requirements of the CCSBT.

- *IOTC, for fishing within IOTC's Convention Area:*

The DWFD Act requires all relevant RFMO measures shall be fully complied with, and this data is being collected and reported on ecologically related species in accordance with the requirements of the IOTC when the vessels operate in the IOTC Area.

- *WCPFC, for fishing within WCPFC's Convention Area:*

The DWFD Act requires all relevant RFMO measures shall be fully complied with, and this data is being collected and reported on ecologically related species in accordance with the requirements of the WCPFC when the vessels operate in the WCPFC Area.

- *ICCAT, for fishing within ICCAT's Convention Area:*

The DWFD Act requires all relevant RFMO measures shall be fully complied with, and this data is being collected and reported on ecologically related species in accordance with the requirements of the ICCAT when the vessels operate in the ICCAT Area.

(b) Specify the number of observed ERS interactions including mortalities, and describe the methods of scaling used to produce estimates of total mortality (information should be provided by species – including the scientific name– wherever possible¹³):

	Sector 1 <i>(commercial longline)</i>		Sector 2 <i>(please name)</i>	
Most Recent Calendar Year (2018)				
Total number of hooks (shots for PS)	2,738,267			
Percentage of hooks (shots) observed	20.9			
	<i>Total number of observed interactions/mortality</i>			
	<i>Interactions</i>	<i>Mortality</i>	<i>Interactions</i>	<i>Mortality</i>
<i>Seabirds</i>	29	29		
DIC	3	3		
DIB	9	9		
DIC	5	5		
DIM	6	6		
DIX	1	1		
PHU	5	5		
<i>Sharks</i>	1,375	1,083		
BSH	767	699		
POR	263	236		
SMA	44	44		
SSQ	301	104		
<i>Sea Turtles</i>	-	-		

¹²Current CCSBT requirements are those in the Scientific Observer Program Standards and those necessary for completing the template for the annual report to the ERSWG.

¹³ Where species specific information is available, insert additional line(s) for each species below the relevant Seabird, Sharks, and/or Sea Turtles sub headings.

	Sector 1 <i>(commercial longline)</i>	Sector 2 <i>(please name)</i>	
Previous Calendar Year (2017)			
Total number of hooks (shots for PS)	2,804,569		
Percentage of hooks (shots) observed	18.2		
	<i>Total number of observed interactions/mortality</i>		
	<i>Interactions</i>	<i>Mortality</i>	<i>Interactions</i>
Seabirds	1	1	
DIC	1	1	
Sharks	1,699	1,060	
BSH	1,257	808	
POR	153	137	
Sixgill shark	2	1	
SMA	13	8	
SSQ	260	106	
Unidentified sharks	14	0	
Sea Turtles	-	-	

(c) Mitigation – describe the current mitigation requirements:

(sea turtle): Korean longline vessels have been implementing the FAO sea turtle guidelines in all tuna RFMOs Areas according to their resolutions and the DWFD Act of Korea . They are required to carry and employ de-hookers, line cutters and scoop nets for prompt release of incidentally caught sea turtles.

(sea birds): Korean longline vessels have been implementing sea bird mitigation measures of tori lines and weighed lines. Most of fishing vessels use tori lines and weighed lines to reduce the incidental bycatch of sea bird

(d) Monitoring usage of bycatch mitigation measures:

- i. Describe the methods being used to monitor compliance with bycatch mitigation measures (e.g. types of port inspections conducted and other monitoring and surveillance programs used to monitor compliance). Include details of the level of coverage (e.g. proportion of vessels inspected each year):

Bycatch mitigation measures used are observed and monitored through the scientific observer program and the electronic reporting system.

- ii. Describe the type of information that is collected on mitigation measures as part of compliance programmes for SBT vessels:

The information includes sea bird mitigation measures used for reducing its bycatch and data on ERS interaction.

(3) Historical SBT Catch (retained and non-retained)

Specify the best estimate (weight and number as available) of the historical fishing amounts of SBT for each sector (e.g. commercial longline, commercial purse seine, commercial charter fleet, commercial domestic fleet, recreational fishing, customary and/or traditional fishing and artisanal fishing) in the table below. The table should include the most recently completed fishing season. Figures should be provided for both retained SBT and non-retained SBT. For all non-farming sectors, “Retained SBT” includes SBT retained on vessel and “Non-Retained SBT” includes those returned to the water. For farming, “Retained SBT” includes SBT stocked to farming cages and “Non-Retained SBT” includes towing mortalities. If possible, provide both the weight in tonnes and the number of individuals in square brackets (e.g. [250]) for each sector. Table cells should not be left empty. If the value is zero, enter “0”. It is recognised that for some sectors, the information requested in this table may not be available. If this is the case enter “?”, however, estimates are preferred over unknown entries wherever possible. Cells containing estimates with a high degree of uncertainty should be shaded in light grey. A description of any estimation methods should be provided below the table.

CCSBT Authorised Vessel Resolution

The flag Members and Co-operating Non-members of the vessels on the record shall:

- a) authorize their FVs to fish for SBT only if they are able to fulfil in respect of these vessels the requirements and responsibilities under the CCSBT Convention and its conservation and management measures;
- b) take necessary measures to ensure that their FVs comply with all the relevant CCSBT conservation and management measures;
- c) take necessary measures to ensure that their FVs on the CCSBT Record keep on board valid certificates of vessel registration and valid authorization to fish and/or tranship;
- d) affirm that if those vessels have record of IUU fishing activities, the owners have provided sufficient evidence demonstrating that they will not conduct such activities any more;
- e) ensure, to the extent possible under domestic law, that the owners and operators of their FVs on the CCSBT Record are not engaged in or associated with fishing activities for SBT conducted by FVs not entered into the CCSBT Record;
- f) take necessary measures to ensure, to the extent possible under domestic law, that the owners of the FVs on the CCSBT Record are citizens or legal entities within the flag Members and Co-operating Non-members so that any control or punitive actions can be effectively taken against them.