

SCIENTIFIC COMMITTEE TWENTIETH REGULAR SESSION

Manila, Philippines 14 – 21 August 2024

ANNUAL REPORT TO THE COMMISSION PART 1: INFORMATION ON FISHERIES, RESEARCH AND STATISTICS

WCPFC-SC20-AR/CCM-32

ECUADOR

Attachment N

The Commission for the Conservation and Management of Highly Migratory Fish Stocks in the Western and Central Pacific Ocean

Scientific Committee Fourth Regular Session

Port Moresby, Papua New Guinea 11–22 August 2008

ANNUAL REPORT TO THE COMMISSION PART 1: INFORMATION ON FISHERIES, RESEARCH AND STATISTICS

Purpose: To provide relevant information to the Commission on fishing activities of CCMs and cooperating non-CCMs, including management and compliance issues. The report should include all fishing activities for highly migratory species being undertaken within the Convention Area as required by the Convention and decisions by the Commission.

PART 1. INFORMATION ON FISHERIES, RESEARCH AND STATISTICS

(Summary information for the <u>previous year</u>, complementary to data submitted¹)

Part 1 of the Annual Report is due one-month prior to the annual regular session of the Scientific Committee.

Part 1 of the Annual Report shall include the following, completed box at the front of the report.

Scientific data was provided to the Commission	
in accordance with the decision relating to the	[YES]
provision of scientific data to the Commission by	
30 April 2023	
If no, please indicate the reason(s) and intended act	ions:
It is attached to the current document.	

ANNUAL FISHERIES INFORMATION

Essential information

Lober		
	Annual catch and effort by primary	2019 – purse seiners
Ι	species and gear in the WCPFC	SKJ 17 319 t
	Convention Area	YFT 2094
		BET 5519
		TOTAL: 24 932
		2020 – purse seiners
		SKJ 8 988 t
		YFT 1 045 t
		BET 4 122 t
		TOTAL: 14 155 t
		101112. 14 155 (
		2021 – purse seiners
		SKJ 10 511 t
		YFT 1 268 t
		BET 4 449 t
		TOTAL: 16 228 t
		101AL. 102281
		2022 – purse seiners
		SKJ 14 211 t
		YFT 2 127 t
		BET 4 892 t
		TOTAL: 21 230 t
		101AL: 21 2501
		2023 – purse seiners
		SKJ 11 276 t
		YFT 1 229 t
		BET 2 289 t
		TOTAL: 14 749 t

Π	Number of vessels by gear type and size (fleet structure)	2019 : 7 purse seiners vessels 1500+ (5 active)
		2020 : 7 purse seiners vessels 1500+ (4 active)
		2021 : 7 purse seiners vessels 1500+ (5 active)
		2022 : 7 purse seiners vessels 1500+ (5 active)
		2023 : 7 purse seiners vessels 1500+ (5 active)
III	Fishing patterns (catch by time/area)	The fishing zones of Ecuadorian vessels fluctuated between 000 19 [°] N and 000 49 [°] S of Latitude, and 8001 [°] W and 1580 40 [°] W of Longitude.

IV	Estimated total catches of non-target, associated and dependent species (if available)	642 202	2 individuals (20: About 2.52	35 tons of non-targ released) 25 tons of non-targ eleased (55 alive)	-		
		202	21: About 3.46	53 tons of non-targ eleased (203 alive			
			22: About 1.10 8 individuals)6 tons of non-targ	get species and		
			23: About 26 t 2 individuals	ons of non-target	species and		
		То	ons				
			CODE	WEIGHT			
			BIL	0.2			
			BUM	2.025			
		WAH 0.737					
		MLS 0.15					
		DOX 4.764					
		RRU 0.174					
			BAR MZZ	0.003 0.002			
		Th dis coi	dividuals e individuals i scarded. No ret	ncidentally captur entions were iden CMM and Nation	tified in		
			CODE	INDIVIDUALS			
			FAL	350 (1 dead)			
			WAH	415			
			DOX	117			
			MLS	5			
			005	25 (alive, not seen			
			OCS	before the FAD set)	,		
			SKH	8			
			SSP	7			
			SRX	2			
			SPN	2			
			LKV	1			
			L	1	_		

¹ Catch/effort and scientific data in un-aggregated form supplied separately to the Commission in accordance with Scientific Data to be provided to the Commission.

Useful information

V	Developments/trends in the fishery (changes in fishing patterns, fleet operations, target species, level of transhipment, etc.)
VI	Associated socioeconomic factors (which may influence or explain the above trends)
VII	Disposal of catch (fresh/frozen/other)/market destination (export/domestic)
VIII	Onshore developments (processing plants, support facilities, etc.)
IX	Future prospects of the fishery (long term viability, expansion/contraction, etc.)

RESEARCH AND STATISTICS

Х	Summary of observer and port sampling programmes (scientific data)
XI	Research activities (tunas, other species, species of special interest, oceanographic
	influences, etc.)
XII	Statistical data collection systems in use (describe)
XIII	Data coverage of catch, effort and size data for all species

Section	Sections in Annual Report
1*	ABSTRACT/SUMMARY
	for inclusion in the SC summary report
2*	Tabular Annual Fisheries Information (see below)
3	Background
	for example, a brief historical description of national fisheries in the WCPFC Convention Area
	wCFFC Convention Area
4*	Flag State Reporting
-	describe recent activities by national fleets (by gear type) in the
	Convention Area, including development/trends in each fishery (e.g. changes
	in fishing patterns, fleet operations, target species, trends in size
	composition, etc.)
5	Coastal State Reporting
	describe recent activities by foreign and domestic fleets in the waters of
	national jurisdiction, including development/trends in each fishery (e.g. changes in fishing patterns, fleet operations, target species, trends in size
	composition, etc.)
	composition, etc.)
6	Socio-economic factors
Ŭ	Associated socioeconomic factors (which may influence or explain the above
	trends)
7	Disposal of catch
	Disposal of catch (fresh/frozen/other)/market destination (export/domestic)
8	Onshore developments
	Onshore developments (processing plants, support facilities etc)
9	Future Prospects of the fishery
	Future prospects of the fishery (long-term viability, expansion/contraction, etc.)
10	
10	Status of tuna fishery data collection systems a. Logsheet data collection and verification
	b. Observer programme
	c. Port sampling programme
	d. Unloading/Transhipment
	e. Other
11	Research activities covering target and non-target species
	for example, biological studies supporting stock assessments; composition
	of the catch according to length, weight and sex; research on environmental
	factors, abundance/biomass surveys, oceanographic and ecological studies,
	etc.

* Essential information

Tabular Annual Fisheries Information - [national fleet], for years [x-5] to [x-1]

The following table shows the suggested captions for the tables and figures required in Annual Report Part 1 covering Annual Fisheries Information.

Suggested	l Table / Figure caption
Table 1.	Annual catch and effort estimates for the [National fleet] , by gear and primary species, for the WCPFC Convention Area and [other broad ocean area], for years [x-5] to [x-1].
Figure 1	Historical annual catch for the [National fleet] , by gear and primary species, for the WCPFC Convention Area presented as a line graph.
Figure 2	Historical annual vessel numbers for the [National fleet], by gear for the WCPFC Convention Area presented as a line graph
Table 2.	Number of [National fleet] vessels, by gear and size category, active in the WCPFC Convention Area, for years $[x-5]$ to $[x-1]$.
Figure 3	Annual distribution of target species catch and effort by the [National fleet] active in the WCPFC Convention Area, for years [x-5] to [x-1].
Table 3.	Observed annual estimated catches of species of special interest (seabird, turtle and marine mammals) by gear for the [National fleet] , in the WCPFC Convention Area, for years [x-5] to [x-1] to the extent available.
Table 4.	Annual estimated catches of non-target, associated and dependent species, including sharks, by the [National fleet] , by gear and species, in the WCPFC Convention Area, for years [x-5] to [x-1] to the extent available.
Table 5.	Estimated annual coverage of operational catch/ effort, port sampling and observer data for the [National fleet] , by gear, active in the WCPFC Convention Area, by gear, for years [x-5] to [x-1].

Notes

1. The **[national fleet]** data must be broken down by gear. Gear includes, but is not limited to, longline, purse seine, pole-and-line, troll, handline, ringnet and driftnet, where relevant. Tables and Figures can be labelled with (a), (b), (c), etc. for each gear.

2. The "primary species" catch covered in Table 1 should include, but not limited to, the following species, by gear type:

longline	albacore, yellowfin, bigeye, pacific bluefin and skipjack tuna. black, blue and striped marlin. swordfish	
purse seine	skipjack, yellowfin, bigeye, albacore and pacific bluefin tuna	
pole-and-line	skipjack, yellowfin, bigeye, albacore and pacific bluefin tuna	
troll	albacore, skipjack, yellowfin, bigeye and pacific bluefin tuna	
handline	yellowfin, bigeye, skipjack and albacore tuna	
[others]	albacore, skipjack, yellowfin and bigeye tuna	

3. The catch estimates in Table 1 should be broken down by WCPFC Convention Area, depending on species, according to the section on "Annual Catch Estimates" contained in the document "Scientific Data to be provided to the Commission".

4. The vessel size classes by gear to be reported in Table 2 are defined in the section on "Number of vessels active" contained in the document "Scientific Data to be provided to the Commission".

5. Table 4 should cover all species not included in Tables 1 and 3.



ADDENDUM TO ANNUAL REPORT PART 1

15 February 2021¹

SECTION A: SPECIFIC INFORMATION TO BE PROVIDED IN ANNUAL REPORT PART 1 AS REQUIRED BY CMMS AND OTHER DECISIONS OF THE COMMISSION.

CMM 2009-03 [Swordfish], Para 8	CCMs shall report to the Commission the total number of vessels that fished for swordfish and the total catch of swordfish for the following: a. vessels flying their flag anywhere in the Convention Area south of 20°S other than vessels operating under charter, lease or other similar mechanism as part of the domestic fishery of another CCM; b. vessels operating under charter, lease or other similar mechanism as part of their domestic fishery south of 20°S; and c. any other vessels fishing within their waters south of 20°S. This information shall be provided in Part 10f each CCM's annual report. Initially, this information will be provided in the template provided at Annex 2 for the period 2000-2009 and then updated annually. *Note: WCPFC11 confirmed a common understanding that "total catch" in this reporting requirement refers to both targeted and bycatch catches of swordfish.
Observer coverage (WCPFC 11 decision – para 484(b)	CCMs are to compile and include in Annual Report Part 1 to be submitted from 2015 onwards, observer coverage for their longline fleet activity in the previous calendar year, noting that revisions can be provided at the annual TCC meeting. A sample report format is provided as guidance to assist CCMs with reporting (WCPFC11 Summary Report Attachment L Table 4) Image: CCM Fleet Fishery Total Observe % NOTEs REPUBLIC OF Distant-water
CMM 2009-06 [Transshipment], Para 11 (ANNEX II)	CCMs shall report on all transhipment activities covered by this Measure (including transhipment activities that occur in ports or EEZs) as part of their Annual Report in accordance with the guidelines at Annex II. In doing so, CCMs shall take all reasonable steps to validate and where possible, correct information received from vessels undertaking transhipment using all available information such as catch and effort data, position data, observer reports and port monitoring data.

¹ Reporting requirements requested by CMMs and decisions of the Commission, as of WCPFC17 (Dec 2020). First issued on 15 February 2021. Changes made from Addendum for 2020, include separating the annual reporting requirements that specify needing to be included in Annual Report Part 1 (Section A) from those that may be included in Annual Report Part 1 if they are not otherwise provided to WCPFC (Section B). The entry into force of CMM 2019-04 *Conservation and Management Measure for Sharks* for most CCMs in late 2020 and the specified reporting in Section VII, has removed a few annual reporting requirements from this Addendum.

and received; port, transhipped at sea in areas of national jurisdiction, and transhipped beyond areas of national jurisdiction inside the Convention Area; inside the cought outside the Convention Area; Form gear offloaded inside the convention Area; inside the convention Area; inside the cought outside the Convention Area; inside the convention Area; inside the convention Area; inside the	the template pr reporting in An Annex 3 of RI CMM 2009-00 Each CCM sha (1) the total qu transhipped by	tcome document parovided in TCC14- nnual Report Part 1 P03: Transhipme 6 paragraph 11 in all include in Part 1 uantities, by weigh fishing vessels the	2018-RP0 , as per C ent inform accordan of its Ann nt, of high	03 Annex CMM 200 nation to nee with to nual Repo	3 be used by a 19-06 paragraph be provided a the guidelines i ort to the Commony fish stocks	Il applicable 11 (Attachi nnually by in Annex II nission: covered by	e CCMs for ment O of W CCMs as re of the meas	their future /CPFC15). equired by sure. that were
received	a) offloaded	b) transhipped in port, transhipped at sea in areas of national jurisdiction, and transhipped beyond areas of national	inside the Conventio and trans outside th	on Area shipped e	inside the Convention Area and caught outside the Convention	e) Species		g) Fishing gear
(2) the number of transhipments involving highly migratory fish stocks covered by this measure by fishing vessels that is responsible for reporting against, broken down by: a) offloaded b) transhipped in port, transhipped in side the convention Area and transhipped outside the Convention Area and transhipped outside the Convention Area c) fishing gear offloaded b) transhipped areas of national jurisdiction, and transhipped outside the Convention Area c) transhipped outside the Convention Area c) transhipped outside the Convention Area c) fishing gear offloaded Image: Convention Area Image: Convention Area c) transhipped outside the Convention Area c) transhipped transhipped transhipped outside the Convention Area offloaded Image: Convention Area Image: Convention Area Image: Convention Area Image: Convention Area offloaded Image: Convention Area Image: Convention Area Image: Convention Area Image: Convention Area offloaded Image: Convention Area	offloaded							
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(2) the number of transhipments involving highly migratory fish stocks covered by this measure by fishing vessels that is responsible for reporting against, broken down by: (2) the number of transhipped in port, and transhipped inside that is responsible for reporting against, broken down by: (2) the number of transhipped is a in areas of national jurisdiction, and transhipped beyond areas of national jurisdiction (2) transhipped outside the Convention Area and transhipped outside the Convention Area (2) caught inside the Convention Area and transhipped outside the Convention Area (2) caught outside the Convention Area (2	received							
ising vessels that is responsible for reporting against, broken down by: i) claught inside the convention Area and rational jurisdiction, and transhipped outside the Convention Area and rational jurisdiction, and transhipped outside the Convention Area i) caught inside the Convention Area and caught outside the Convention Area i) caught inside the Convention Area and caught outside the Convention Area i) caught inside the Convention Area and transhipped outside the Convention Area i) caught outside the Convention Area iii caught outside the Convention Area <						+	1	
ishing vessels that is responsible for reporting against, broken down by: a) offloaded b) transhipped in port, transhipped outside the Convention Area and transhipped beyond areas of national jurisdiction, and transhipped outside the Convention Area d) caught inside the Convention Area and transhipped outside the Convention Area e) fishing gear offloaded	·							
received Image: Constraint of the second	offloaded	of national jurisdiction, and transhipped beyond areas ofand transhipped outside the Convention Areacaught outside the Convention Area						
ANNEX II TRANSHIPMENT INFORMATION TO BE REPORTED ANNUALLY BY CCMs Each CCM shall include in Part 1 of its Annual Report to the Commission: (1) the total quantities, by weight, of highly migratory fish stocks covered by this measure that were transhipped by fishing vessels the CCM is responsible for reporting against, with those quantities broken down by: a. offloaded and received; b. transhipped in port, transhipped at sea in areas of national jurisdiction, and transhipped beyond areas of national jurisdiction;	omoaueu							
 TRANSHIPMENT INFORMATION TO BE REPORTED ANNUALLY BY CCMs Each CCM shall include in Part 1 of its Annual Report to the Commission: (1) the total quantities, by weight, of highly migratory fish stocks covered by this measure that were transhipped by fishing vessels the CCM is responsible for reporting against, with those quantities broken down by: a. offloaded and received; b. transhipped in port, transhipped at sea in areas of national jurisdiction, and transhipped beyond areas of national jurisdiction; 	received							
 TRANSHIPMENT INFORMATION TO BE REPORTED ANNUALLY BY CCMs Each CCM shall include in Part 1 of its Annual Report to the Commission: (1) the total quantities, by weight, of highly migratory fish stocks covered by this measure that were transhipped by fishing vessels the CCM is responsible for reporting against, with those quantities broken down by: a. offloaded and received; b. transhipped in port, transhipped at sea in areas of national jurisdiction, and transhipped beyond areas of national jurisdiction; 								
c. transhipped inside the Convention Area and transshipped outside the Convention Area;	Each CCM sl (1) the total that wer with tho a. offle b. tran tran	hall include in Par quantities, by we re transhipped by ose quantities brol oaded and receive shipped in port, tr shipped beyond a	rt 1 of its eight, of 1 fishing v ken down ed; ranshippe ureas of n	ON TO Annual nighly m essels th by: ed at sea ational j	BE REPORTI Report to the higratory fish s the CCM is resp in areas of na urisdiction;	Commission stocks cove ponsible fo tional juris	on: red by this r reporting diction, and	measure against, 1

f. product form; and
g. fishing gear used
g. Hishing geta used
 (2) the number of transhipments involving highly migratory fish stocks covered by this measure by fishing vessels that is responsible for reporting against, broken down by: a. offloaded and received; b. transhipped in port, transhipped at sea in areas of national jurisdiction, and transhipped beyond areas of national jurisdiction;
c. transhipped inside the Convention Area and transhipped outside the Convention
Area;
d. caught inside the Convention Area and caught outside the Convention Area; and
e. fishing gear.
CCMs shall include in their Part 1 Annual Report any instances in which cetaceans have been
encircled by the purse seine nets of their flagged vessels, reported under paragraph 2(b).
CCMs shall annually provide to the Commission, in Part 1 of their annual reports, all available information on interactions with seabirds reported or collected by observers to enable the estimation of seabird mortality in all fisheries to which the Convention applies. (see below for Part 1 reporting template guideline). These reports shall include information on: 1. the proportion of observed effort with specific mitigation measures used; and 2. observed and reported species specific seabird bycatch rates and numbers or statistically rigorous estimates of species- specific seabird interaction rates (for longline, interactions per 1,000 hooks) and total numbers.

CMM 2018-03: [Seabirds] Annex 2. Guidelines for reporting templates for Part 1 report

The following tables should be included in the annual Part 1 country reports, summarising the most recent five years.

Table x: Effort, observed and estimated seabird captures by fishing year for [*CCM*] [South of 30^{0} S; 25^{0} S- 30^{0} S; North of 23^{0} N; or 23^{0} N – 25^{0} S¹]. For each year, the table gives the total number of hooks; the number of observed hooks; observer coverage (the percentage of hooks that were observed); the number of observed captures (both dead and alive); and the capture rate (captures per thousand hooks).

Year	Fishing effort				Observed seabird captures		
	Number of vessels	Number of hooks	Observed hooks	% hooks observed	Number	Rate ²	
[year]							
[year]							
[year]							
[previous year e.g. 2017]							
[current year e.g. 2018]							

1 Insert 'North of 23oN', 'South of 30oS', '25oS-30oS' or '23oN – 250oS'. For CCMs fishing in all areas, provide separate tables for each area.

2 Provide data as captures per one thousand hooks.

	Combination of	Proporti	on of observed e	ffort using mitiga	ation mea	sures	
	Combination of Mitigation	South of 30°S	25°S-30°S	25°S to 23°N	North		
	Measures				of 23°N		
	No mitigation						
	measures						
Options required	TL + NS						
south of 25°S	TL + WB						
	NS + WB						
	TL + WB + NS						
	HS						
Other options	WB						
25°S-30°S	TL						
Other options	SS/BC/WB/DSLS						
north of 23 ⁰ N	SS/BC/WB/(MOD or BDB)						
Provide any other							
combination of							
mitigation							
measures here							
	Totals (must equal 100%)						

Table y: Proportion of mitigation types¹ used by the fleet in [year].

 1 TL = tori line, NS = night setting, WB = weighted branch lines, SS = side setting, BC = bird curtain, BDB = blue dyed bait, DSLS = deep setting line shooter, MOD = management of offal discharge, HS = hook-shielding device.

Table z: Number of observed seabird captures in [CCM] longline fisheries, 2012, by species and	l
area.	

Species	South of 30°S	25°S-30°S	North of 23°N	23°N -25°S	Total
E.g. Antipodean albatross					
[species name]					
[species name]					
[species name]					
[species name]					
[species name]					
[species name]					
Total					

<u>SECTION B:</u> ADDITIONAL ANNUAL REPORTING REQUIREMENTS THAT COULD BE INCLUDED IN ANNUAL REPORT PART 1, IF NOT OTHERWISE REPORTED ANNUALLY TO WCPFC

CMM 2006- 04 [South West striped Marlin], Para 4	In accordance with paragraph 1, CCMs shall provide information to the Commission, by 1 July 2007, on the number of their vessels that have fished for striped marlin in the Convention area south of 15° S, during the period $2000 - 2004$, and in doing so, nominate the maximum number of vessels that shall continue to be permitted to fish for striped marlin in the area south of 15° S. CCMs shall report annually to the Commission the catch levels of their fishing vessels that have taken striped marlin as a bycatch as well as the number and catch levels of vessels fishing for striped marlin in the Convention Area south of 15° S.			
CMM 2015- 02 [South Pacific Albacore] Para 4	CCMs shall report annually to the Commission the annual catch levels taken by each of their fishing vessels that has taken South Pacific albacore, as well as the number of vessels actively fishing for South Pacific albacore, in the Convention area south of 20°S. Catch by vessel shall be reported according to the following species groups: albacore tuna, bigeye tuna, yellowfin tuna, swordfish, other billfish, and sharks. Initially this information will be provided for the period 2006-2014 and then updated annually. CCMs are encouraged to provide data from periods prior to these dates.			
CMM 2019- 03 [North Pacific Albacore], Para 3	All CCMs shall report annually to the WCPFC Commission all catches of albacore north of the equator and all fishing effort north of the equator in fisheries directed at albacore. The reports for both catch and fishing effort shall be made by gear type. Catches shall be reported in terms of weight. Fishing effort shall be reported in terms of the most relevant measures for a given gear type, including at a minimum for all gear types, the number of vessel-days fished using the template provided in Annex 1. Annex 1: Annex 1: Annex 1: Annex 1: Annex 1: Annex 1: Annex 1: Annex 1: Average annual fishing effort for 2002-2004 and annual fishing effort for subsequent years for fisheries directed at North Pacific albacore in the North Pacific Ocean			