
SCIENTIFIC ADVICE TO SUPPORT THE IMPLEMENTATION OF IOTC RESOLUTION 16/06

PREPARED BY: IOTC SECRETARIAT & SC CHAIR, 26 NOVEMBER 2017

PURPOSE

To provide the Scientific Committee (SC) with the opportunity to provide the Commission with the advice requested in Resolution 16/06 *On measures applicable in case of non-fulfilment of reporting obligations in the IOTC*.

BACKGROUND

Resolution 16/06 provides a mechanism for the Commission to penalise CPCs that are not fulfilling their basic data reporting obligations to IOTC by introducing a prohibition of the retention of species for those CPCs not reporting, or reporting incomplete nominal catch data.

“Following the review carried out by the Compliance Committee, the Commission at its annual session, according to the guidelines attached (Annex I), and after having given due consideration to the relevant information provided by the concerned CPCs in these cases, may consider to prohibit CPCs that did not report nominal catch data (exclusively), including zero catches, for one or more species for a given year, in accordance with the Resolution 15/02, paragraph 2 (or any subsequent revision), from retaining such species as of the year following the lack or incomplete reporting until such data have been received by the IOTC Secretariat. Priority shall be given to situations of repeated non-compliance. Any CPC unable to meet these reporting obligations owing to engagement in civil conflict shall be exempt from this measure. The CPC concerned will work with the IOTC Secretariat to identify and implement possible alternative methods for data collection, using established FAO data collection methods”. (Para. 3 Resolution 16/06)

This will be undertaken following a review conducted by the Compliance Committee. To provide information for the Compliance Committee, Annex I of Resolution 16/06 requests that the IOTC Secretariat works with the Scientific Committee to provide details on the status of data compliance by each CPC:

“Data review year (Starting in 2016 and annually thereafter): The IOTC Secretariat, in consultation with the Scientific Committee will include in the compliance report information detailing data submission status by species or stock (e.g. complete, incomplete, or missing) for each CPC” (para. 2 Resolution 16/06, Annex I).

The full text of the Resolution is contained in the *Compendium of Active Conservation and Management Measures for the Indian Ocean Tuna Commission* and may be downloaded from the IOTC website at the following links:

English: <http://iotc.org/cmms>

French: <http://iotc.org/fr/mcgs>

DISCUSSION

Tables 1 – 6 provide a summary of the nominal catches held in the IOTC database for each CPC according to the mandatory species to be reported for each gear type as defined in Resolution 15/01. This information is provided for 2016, the first year for which a data review is requested in Resolution 16/06. These tables highlight which CPCs have not reported species by gear type (including zero reports as mentioned in the Resolution) and also the level of catches where they are reported. Where it is known that the information has not been provided for all vessels, this is also highlighted as partially available data. These tables are provided to facilitate discussions so that the Scientific Committee can review the catches and provide advice to the Compliance Committee on whether the information is likely to be *complete, incomplete* or *missing*, as requested by the Commission.

Tables 1-6 provide a summary of nominal catches for each CPC in the IOTC database. These are generally consistent with reported catches, with the notable exception of the following fleets:

- Bangladesh – catches for the gillnet fleet submitted were aggregated by species group, so the species composition has been estimated by the Secretariat.

- India – catch is not reported for all longline vessels in the fleet, so catches in Table 1 are highlighted as partially reported.
- Indonesia – purse seine catches are highlighted as partially reported in Table 2 because catches are only reported for the small purse seine vessels.
- Sri Lanka – catches are not reported for the artisanal gillnet, handline and troll line fleets (data for these gear types only represent the coastal and offshore fleet components), so these have been highlighted as partially reported in Tables 3, 5 and 6.

The tables highlight that to fulfil the request of the Commission, it is necessary for fleets to report zero catches which currently is not mandatory in Resolution 15/02. This will enable to evaluate the status of reporting of nominal catch as it is highly unlikely that all of the cells for which catch information is not provided is non-reporting but more likely to be lack of zero reports. This requires discussion by the SC regarding what further information can be provided from CPCs to better inform the Compliance Committee on this issue.

RECOMMENDATION/S

That the Scientific Committee:

- 1) **NOTE** paper IOTC–2017–SC20–14 which provides a summary of the nominal catch data currently reported by CPCs.
- 2) **REQUEST** CPCs report nominal catches, including zero catches, for 2016 for species that are mandatory for collection and reporting under Resolutions 15/01 and 15/02 by 30 March 2018 so that a more appropriate summary can be compiled prior to the Compliance Committee in 2018 (including advice on *complete*, *incomplete* or *missing* catches) to support the implementation of Resolution 16/06 as requested by the Commission.
- 3) **RECOMMENDS** that at the next revision of Resolution 15/02 the reporting of zero catches is made mandatory so that zero catches can be distinguished from unreported catches and further strongly **REQUESTS** CPCs to report zero catches in the interim period (2017 onwards) until the Resolution is revised.

TABLES
Table 1. Nominal catches by species for the longline fleets, for 2016.

Fleet	Albacore	Bigeye tuna	Yellowfin tuna	Skipjack tuna	Southern bluefin tuna	Black marlin	Blue marlin	Indo-Pacific sailfish	Striped marlin	Swordfish	Shortbill spearfish	Other bony fishes	Blue shark	Mako sharks	Porbeagle shark	Silky shark	Hammer head sharks	Mantas and devil rays	Tiger shark	Crocodile shark	Great white shark	Pelagic stingray	Other sharks	Thresher sharks	Oceanic whitetip shark	
Australia	30.1	69.4	65.8	0.1	132.3				0.9	133.8	0.2	0.2	DISC						DISC			DISC	DISC		DISC	
China	CHN	1,920.0	4,086.2	1,812.2			12.8	926.0	424.4	1,176.1			49.0		0.0	DISC	DISC								DISC	DISC
	TWN	20,374.4	15,253.9	16,957.8	230.8	1,011.6	519.7	5,367.4	487.3	1,241.2	7,686.5	59.8		5,307.4	1,197.7	0.0	568.5	28.5						126.0		
EU	ESP	90.9	295.6	170.8	0.0	0.0	5.9	20.6	67.4	43.5	3,354.3	7.3		3,592.5												
	FRA	232.2	343.1	322.2		0.0	25.1	96.2	16.4	11.2	792.8	7.7		DISC			DISC	DISC		DISC	DISC		DISC	DISC		
	GBR	2.1		41.8		0.0		3.5		1.7	203.7			172.4												
	PRT	14.6	158.3	125.6		0.0	27.9	34.5	6.3	24.0	1,540.8			1,538.2												
India		0.2	2,798.4	1,339.1		1,458.9	0.6	1,036.3		201.2														1,314.0	6.3	
Indonesia	5,570.8	6,962.5	17,795.7	14.4		742.0	3,949.3	17.5	1,252.6	10,898.9	145.4		4,256.8	182.3		297.9	19.3							444.5		
Japan	2,336.8	4,031.4	2,976.2	8.3	1,621.9	48.6	122.0	33.6	96.5	719.9			597.8		28.0											
Korea	180.5	310.0	1,276.0	3.0	189.0	18.0	88.0	24.0	55.0	86.0		DISC	240.0	DISC	4.0									6.0	DISC	
Madagascar	79.6	56.1	60.7			0.2			2.1	14.5			36.1													
Malaysia	1,330.6	124.0	155.9							41.6			DISC											4.7		
Maldives	5.0	361.0	285.8	0.9		0.1	71.4	2.1	35.1	100.5			DISC			DISC	DISC								DISC	
Mauritius	28.8	34.2	63.3	1.5		6.3	6.7	2.2	1.9	78.4																
Mozambique	0.3	14.9	20.9	4.0	2.1	10.0	4.2	5.9	6.0	36.1	1.5		0.7											0.3		
Oman																										
Seychelles	198.3	5,435.5	3,246.6	9.3		1,040.0	149.3	38.7	391.7	2,016.7	8.9	178.1	390.6	69.3	0.0		0.5							29.8	0.3	0.2
South Africa	5.5	34.0	183.5		5.6	1.4	0.8		1.5	85.4			169.0						DISC							
Sri Lanka	6.1	938.9	3,938.6	39.7		356.6	264.0	147.8	3.2	559.5		165.1	35.9			53.8								0.3	DISC	DISC
Tanzania	16.7	112.7	109.4			17.7	2.9	4.2	26.8	37.9			17.3													
Kenya																										

Colour key:

<i>Catch data available</i>	
<i>Catch partially available</i>	
<i>No catches reported (unclear if zeros or non-reporting)</i>	

NB: “DISC” = discard data have been formally reported for the fleet

Table 2. Nominal catches by species for the purse seine fleets, for 2016.

Fleet	Albacore	Bigeye tuna	Yellowfin tuna	Skipjack tuna	Southern bluefin tuna	Kawakawa	Longtail tuna	Narrow barred Spanish mackerel	Frigate tuna	Bullet tuna	Indo-Pacific king mackerel	Black marlin	Blue marlin	Striped marlin	Swordfish	Indo-Pacific sailfish	Thresher sharks	Oceanic whitetip shark	Silky sharks
Australia					5,012.3														
EU	ESP	22.1	9,371.5	51,488.9	75,263.8														
	ITA	5.0	110.0	1,594.0	1,734.0														
	FRA	227.6	3,425.0	33,718.8	30,875.9		DISC		DISC			3.8	9.8	2.1		DISC		DISC	DISC
Iran		137.9	3,465.5	1,202.0		0.0	50.0	0.0			0.0					0.0			0.0
Japan		258.0	422.0	2,357.0													0.0	0.0	
Korea	14.0	604.0	10,347.0	13,670.0															
Mauritius	54.5	529.7	7,404.1	3,788.2					DISC									DISC	DISC
Seychelles	110.2	7,303.7	40,014.2	60,746.7			1.1												
Thailand						9.2	1.9	0.2											
Indonesia	100.6	5,643.4	4,999.6	34,739.8		16,888.0	20.7	4,969.2	5,096.8	248.8		382.7	14.4	33.1	77.9	158.9			

Table 3. Nominal catches by species for the gillnet fleets, for 2016.

Fleet	Albacore	Bigeye tuna	Yellowfin tuna	Skipjack tuna	Southern bluefin tuna	Bullet tuna	Narrow barred Spanish mackerel	Frigate tuna	Indo-Pacific king mackerel	Kawakawa	Longtail tuna	Other bony fish	Indo-Pacific sailfish	Swordfish	Shortbill spearfish	Marlins	Hammerhead sharks	Mako sharks	Blue shark	Porbeagle shark	Other sharks
Australia			0.5								0.5	1.0									
Bangladesh							505.5		350.5												624.5
Comoros	3.0	164.2	905.1	548.9		6.2		10.4		49.8	6.0		234.6	500.1					60.1		
Eritrea																					
Indonesia	61.2	1,367.6	304.4	12,015.7		518.1	17,000.2	10,271.1	8,342.5	7,485.8	9,962.6		373.6	58.8			12.7	7.2	1,235.7		
India		0.9	3,974.3	799.3		1,122.5	19,735.4	1,682.9	9,699.1	18,355.3	7,034.7		2,709.0	868.6							13,014.0
Iran		2,930.6	35,110.3	37,956.0			20,759.1	10,238.3	7,501.2	33,676.7	54,596.4		7,552.4	887.3			19.6				448.5
Kenya																					
Sri Lanka	8.4	211.5	5,468.6	27,991.7		300.6	2,681.1	1,332.1	141.4	1,578.7		1,003.9	961.9	900.6		8.3			155.2		610.9
Mozambique							394.7	32.7			1.5						329.0				
Malaysia							1,878.0		854.5	12.1	945.2										
Oman																					
Pakistan			7,533.2	5,483.3		420.6	5,854.1	2,551.6	1,832.8	13,528.9	14,041.4		4,472.0	693.0							7,011.0
Tanzania																					
Yemen																					

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Table 4. Nominal catches by species for the pole and line fleets, for 2016.

Fleet	Albacore	Bigeye tuna	Yellowfin tuna	Skipjack tuna	bullet tuna	Frigate	Kawakawa	Longtail tuna	Narrow barred Spanish mackerel	Other bony fish	Sharks
Indonesia			431.7	2,918.6		52.6	1.1	72.1			
India			317.0	6,752.0		50.0					
Sri Lanka			1,042.9	3,621.1	20.8	24.4	399.8				
Maldives		781.1	8,550.2	68,711.9		124.0	26.2			28.5	

Table 5. Nominal catches by species for the handline fleets, for 2016.

Fleet	Bigeye tuna	Yellowfin tuna	Skipjack tuna	Black marlin	Indo-Pacific sailfish	Indo-Pacific king mackerel	Bullet tuna	Kawakawa	Longtail tuna	Narrow barred Spanish mackerel	Frigate tuna	Other fishes	Rays	Sharks
Australia	0.5	0.129	0.5						8.277	14.446				
Comoros	101.768	2274.667	132.613	114.368	559.642	3.514	1.088	22.504	31.326					
European Union	France	52.1			9.1									
	Reunion	19.788	475.722	18.19	37.983	2.595						3.045		
UK OT (BIOT)		2.075	0.251					1.033						
Indonesia	5910.406	9904.947	10083.781	950.844	410.943	1582.038	16.846	8693.184	6607.932	6020.058	23452.563			
India	0.527	2350.729	412.826	1066.107	2373.743	1177.343	1783.55	3965.615	325.045	2395.626	190.869	3.085		
Iran		5760												
Kenya														
Sri Lanka	3060.899	17647.031	3981.878	1778.611	449.026		71.9	554.373		58.2	1138.77		251.1	981.593
Maldives	1329.032	44825.762	867.77	69.276	12.027			1.835			15.72	66.174		
Mozambique	3.4	24.02			3.05					953.91				76.8
Mauritius		86.749	20.535											
Oman														
Seychelles		0.1						69.6						21.75
Tanzania														
Yemen														

Table 6. Nominal catches by species for the troll line fleets, for 2016.

Fleet	Albacore	Bigeye tuna	Yellowfin tuna	Skipjack tuna	Swordfish	Black marlin	Blue marlin	Striped marlin	Indo-Pacific sailfish	Bullet tuna	Frigate tuna	Indo-Pacific king mackerel	Kawakawa	Longtail tuna	Narrow barred Spanish mackerel	Other fishes	Rays	Sharks
Australia			0.26	0.5										0.5	261.45			
Comoros	6.882	617.059	2403.991	4941.874	73.554	18.24	22.006	1.913	10.655	0.52	1.089		56.829	1.842	0.079			
European Union (France)		3.3	36.4	71.8									16.4					
Indonesia	290.96	855.615	2526.688	10581.034	9.611	84.085	78.681	41.694	28.167	194.939	5803.703	163.65	3261.979	2588.175	3410.283			
India		1.281	5714.028	5536.84	60.354	94.206			188.24	0.226	520.682		1153.124	50.637		8.227		7693
Iran			774.71						256.871		5.82	157.727	230.575	500.519	2922.253			59.312
Kenya																		
Sri Lanka		729.9	3441.36	2282.108	460.8	283.6	25.9	0.3	69.2	131.92	554.879		1815.531		7.8		38	0.1
Madagascar																		
Maldives		8.903	43.617	8.843					1.227		3.47		1.965			3.955		
Mozambique			2.72	0.361		0.032			0.188		0.006		0.05		1.236			
Malaysia												0.461		0.13	2.169			
Oman																		
Tanzania																		
South Africa	5.78																	