
REPORT ON THE IOTC FISHERIES STATISTICS RECORD

Prepared by IOTC Secretariat

This document summarises the information received in accordance with IOTC Resolution 08/01 (previously 05/01 and 98/01) *Mandatory statistical requirements for IOTC Members*, IOTC Resolution 05/05 *Concerning the conservation of sharks caught in association with fisheries managed by the IOTC*, and IOTC Resolution 06/04 *On reducing incidental bycatch of seabirds on longline fisheries*.

Background

The mandatory fisheries statistics comprise three different types of information:

- Nominal catches which are highly aggregated statistics for each species estimated per fleet, gear and year for a large area. If these data are not reported the Secretariat estimates a total catch (eg. CATCH 2007) from a range of sources including:
 - Partial catch and effort data
 - Data in the FAO FishStat database
 - Catches estimated by the IOTC from data collected through port sampling
 - Data published through web pages or other means
 - Data reported by other parties on the activity of vessels (IOTC Resolution 07/04) or on imports of bigeye tuna from vessels under the flag concerned (IOTC Resolution 01/06)
- Catch and effort data: refer to the fine-scale data – usually from logbooks, and reported per fleet, year, gear, type of school, month, grid and species. Information on the use of fish aggregating devices (FADs) and supply vessels is also required.
- Size data: Size frequency distributions of IOTC species per fleet, year, gear, type of school, quarter and 5 degrees square areas.

The Secretariat keeps databases containing the above data and all correspondence concerning data requests, data submissions and other related issues.

Submission of fisheries data for 2007

The status of reporting on fisheries information on the tuna and tuna-like species for the year 2007 is shown in Table 1. Note that the approximate catches shown are indicative only and may not equal exactly the best scientific estimates of the catches as adopted by the IOTC Scientific Committee.

The timeliness of reporting for IOTC CPC is shown in Table 2.

Submission of bycatch data for 2007

The status of reporting on bycatch data for the year 2007 is shown in Table 3. No bycatch data has been received from non-members.

Note: In most cases, there is no independent way of verifying data submitted to the Secretariat, by CPCs.

Table 1. IOTC fisheries statistics (Resolution 01/05). Status of reporting for the year 2007. See key below.

a) IOTC Contracting Parties

IOTC CONTRACTING PARTIES	GEAR	Approximate CATCH 2007 (x1000 t)	Dataset					COMMENTS
			NC	CE	SF	FAD	SUP	
Australia	PS	7.0	✓	✓	✓	-	-	Longline NC data; and longline, purse seine and other CE data reported to IOTC standards but not for release due to current Australian data confidentiality policy.
	LL		✓	✓	⚡	-	-	Longline SF data not reported by IOTC grid. Purse seine SF data reported to IOTC standards but not for release due to current Australian data confidentiality policy. SF data for other gears not collected due to low catch levels of tuna and billfish.
	OT		✓	✓		-	-	
Belize	LL	1.2	✓	✓		-	-	2008 stats reported (including SF)
China Taiwan,China	LL	10.6	✓	✓	⚡	-	-	SF coming from observers (low coverage)
	LL	56.8	✓			-	-	CE and SF data will be provided in the near future
	LLs	32.5	✓					
Comoros	OT	10.3				-	-	
Eritrea	OT	0.2				-	-	
EC	PS	187.5	✓	✓	✓		⚡	Only the number of support vessels reported.
	LL	12.7	✓	⚡	⚡	-	-	CE incomplete for some EC fleets (CE not reported for some species). SF not reported for some EC fleets or incomplete (only available for swordfish).
	OT	0.2	✓	✓		-	-	
France (OT)	PS	9.1	✓	✓	✓	-	-	
	OT	0.8				-	-	
Guinea	LL	0.9				-	-	
India	LL	14.1				-	-	CE and SF data (OT) not reported due to alternative priorities for data use.
	Res	0.0	✓	✓	✓			
	OT	140.0	✓			-	-	
Indonesia	LL	5.7				-	-	NC may not be reported for vessels operating outside Indonesia;
	LLs	23.2	⚡	⚡	⚡			CE and SF for LL not available per IOTC grid.
	OT	171.6	✓			-	-	
Iran	PS	5.2	✓					Around 700 gillnet vessels operate outside the EEZ (some having LOA over 24m)
	OT	148.0	✓			-	-	
Japan	PS	5.8	✓	✓				

IOTC CONTRACTING PARTIES	GEAR	Approximate CATCH 2007 (x1000 t)	Dataset					COMMENTS
			NC	CE	SF	FAD	SUP	
	LL	53.8	✓	✓		-	-	SF data will be provided in the near future
Kenya	LL	0.2	✓					
	OT	1.7	⚡			-	-	Data not by species for fisheries other than the sport fishery
Korea, Republic of	LL	5.8	✓	✓	⚡	-	-	SF coming from observers (low coverage)
Madagascar	LL	0.1				-	-	Catches reported only for January-June 2006.
	OT	12.0				-	-	
Malaysia	LL	2.9	⚡	⚡		-	-	NC/CE for vessels operating outside Malaysia may be incomplete.CE data not by IOTC grid.
	OT	22.3	✓	✓		-	-	
Mauritius	LL	0.7	✓	✓	⚡	-	-	SF data not reported for all fleets
	OT	1.1				-	-	
Oman	LL		✓			-	-	
	OT		✓			-	-	
Pakistan	OT	30.3	✓			-	-	
Philippines	LL	3.6	✓	⚡		-	-	CE not derived from a logbook
Seychelles	PS	49.9	✓	✓	✓		⚡	Only the number of support vessels reported
	LL	9.4	✓	✓	✓	-	-	
	OT	0.5	✓	✓		-	-	
Sri Lanka	OT	135.6	⚡	⚡	⚡	-	-	NC aggregated by gear. CE and SF data not reported per IOTC grid.
Sudan	OT	0.0				-	-	
Sierra Leone								IOTC Member since 2008
Tanzania	LL	0.5				-	-	
	OT	3.6						
Thailand	PS	11.7	✓	⚡	⚡	-	-	SF for PS not available per IOTC standards (grid, month, school type).
	LL	0.5	✓	⚡		-	-	
	OT	18.7	✓	✓				
U.K. (I.O. Territories)	OT	0.0	✓	✓		-	-	
Vanuatu		0.0	✓	✓	✓			No activity

b) IOTC Cooperating Non-Contracting Parties

IOTC COOPERATING NON-CONTRACTING PARTIES	GEAR	Approximate CATCH 2007 (x1000 t)	NC	CE	SF	FAD	SUP	COMMENTS
Senegal	LL	0.0				-	-	
South Africa	LL	0.5	✓	✓	✓	-	-	
	OT	0.0	✓	✓		-	-	
Uruguay		0	✓	✓	✓	-	-	No activity in 2007 or 2008

c) IOTC non members: coastal countries

IOTC non-members	GEAR	Approximate CATCH 2007 (x1000 t)	NC	CE	SF	FAD	SUP	COMMENTS
Bahrain	OT	0.0	✓			-	-	
Bangladesh	OT	0.0				-	-	
Djibouti	OT	0.0				-	-	
East Timor	OT	0.0				-	-	
Egypt	OT	0.7				-	-	
Jordan	OT	0.1				-	-	
Kuwait	OT	0.2				-	-	
Maldives	OT	125.1				-	-	NC and CE data downloaded from the internet
Mozambique	OT	0.0				-	-	Catch levels unknown (probably very low).
Myanmar	OT	0.0				-	-	Catch levels unknown
Qatar	OT	2.3				-	-	
Saudi Arabia	OT	7.9				-	-	
Somalia	OT	0.0				-	-	Catch levels unknown (probably very low).
United Arab Emirates	OT	7.9				-	-	
Yemen	OT	28.5				-	-	NC and CE estimated from data collected by IOTC-OFCF Project

Key Table 1	NC	Nominal catch Data (total catches per species, gear, year and IOTC Area)
	CE	Surface (PS and OT): catch (weight) and effort (fishing days) data by 1° grid area and month strata, per species and gear. Longline (LL; LLs): catch (numbers and weight) and effort (number of hooks) by 5° grid area and month strata, per species. Information recorded under PS and/or LL refers, totally or partially, to vessels having length overall above 24 meters.
	SF	Length data, including the total number of fish measured, per 5° grid area and month, by species, gear and fishing mode
	FAD	Total number and type of Fish Aggregating Devices operated by the fleet by 5° grid area and month basis (applies only to industrial purse seiners)
	SUP	Number, characteristics and levels of activity of supply vessels (of tuna purse seiners)
GEAR		PS Industrial Purse seine (above 24 meters length overall 'LOA')
		LL Industrial Longline (having LOA greater than 30 meters in most cases)
		LLs Small Longlines (having LOA between 15m and 30m in most cases)
		Res Research/Training vessels
		OT refers to gears other than industrial purse seines and longlines (vessels with LOA over 24 m are not likely to occur)
	✓	Data reported by IOTC standards
	⚡	Data reported but not to IOTC standards (e.g. catches and effort or size frequency not reported per month or one degree or five degree square area)
		(blank) No data received
	-	No data expected

Table 2. IOTC fisheries statistics (Resolution 01/05). Timeliness of reporting data for the year 2007.

Dataset	On / before Deadline	Within the month of the deadline	Late report	No Report
Nominal Catch	Australia, Belize, EC, France (OT) Iran, Japan Malaysia, Pakistan, Philippines, Seychelles, Thailand Uruguay	Japan, Thailand	EC, China; India, Korea, Kenya, Indonesia, Mauritius, U.K. (I.O. Territories) Oman, South Africa, Sri Lanka, Vanuatu	Comoros, Eritrea, Guinea, Madagascar, Senegal, Sierra Leone, Sudan, Tanzania
Catch and Effort	Australia, Belize, EC, Japan, Philippines, France (OT), Malaysia, Seychelles, Thailand Uruguay	Japan, Thailand,	China, EC, Korea, Mauritius, Oman, South Africa, Sri Lanka, U.K. (I.O. Territories), Vanuatu	Comoros, Eritrea, Guinea, Indonesia, India, Iran, Kenya, Madagascar, Pakistan, Sierra Leone, Sudan, Tanzania, Senegal
Size Frequency	Australia, EC, France (OT), Indonesia, Seychelles Uruguay		China, Korea, Mauritius, EC, South Africa, Sri Lanka, Thailand, Vanuatu	Belize, Comoros, Eritrea, Guinea, India, Iran, Japan, Kenya, Madagascar, Malaysia, Oman, Pakistan, Philippines, Senegal, Sierra Leone, Sudan, Tanzania, U.K. (I.O. Territories)
Fish Aggregating Devices purse seine				Seychelles, EC, France (OT), Iran, Japan, Thailand
Supply Vessels purse seine	EC, Seychelles			Thailand

Note: EC datasets were reported at different times depending on the type of fishery

Table3. IOTC bycatch statistics. Status of reporting for the year 2007 (total catches only).

a) IOTC Contracting Parties

IOTC CPC	GEAR	SPECIES GROUP		COMMENTS
		Sharks	Sea birds	
Australia	PS			
	LL	✓		
	OT	✓		
Belize	LL	⌵		Data not reported by species.
China Taiwan-China	LL	⌵		Data not reported fully by species Data not reported by species. Data not reported for small longliners.
	LL	⌵		
Comoros	OT			
Eritrea	OT			
EC	PS	⌵		Preliminary estimation using observer data Data not reported by species for some fleets.
	LL	⌵		
	OT	⌵		
France (OT)	PS, OT			
Guinea	LL			
India	LL,OT	⌵		Data not reported by species
Indonesia	LL	⌵		Data not reported by species. Data not reported for large longliners.
	OT	⌵		
Iran	PS, OT			
Japan	PS, LL			
Kenya	LL, OT	⌵		Data not reported fully by species .
Korea, Republic of	LL	⌵		Data not reported fully by species; Length frequency data reported for main shark species

IOTC CPC	GEAR	SPECIES GROUP		COMMENTS
		Sharks	Sea birds	
Madagascar	LL			
	OT			
Malaysia	LL	⚡		Data not reported by species.
	OT	⚡		
Mauritius	LL	⚡		Data not reported by species
	OT			
Oman	LL, OT	⚡		Data not reported by species
Pakistan	OT			
Philippines	LL			
Seychelles	PS, OT			Data not reported fully by species
	LL	⚡		
Sierra Leone				Member since 2008
Sri Lanka	OT	⚡		Data not reported by species for some fleets.
Sudan	OT			
Tanzania	OT			
Thailand	PS, LL, OT			
U.K. (I.O. Territories)	OT			
Vanuatu		✓	✓	No activity
Senegal	LL			
South Africa	LL	✓	⚡	Scientific estimates (total sea bird bycatch not reported). Length frequency data reported for main shark species.
	OT	✓		
Uruguay		✓	✓	No activity in 2007 or 2008

Key Table 1	Sharks	Total catches of sharks reported
	Sea Birds	Total by-catch of sea birds (or CPUE) reported
GEAR		
PS Industrial Purse seine (above 24 meters length overall 'LOA')		
LL Industrial Longline (having LOA greater than 24 meters in most cases)		
OT refers to gears other than industrial purse seines and longlines (vessels with LOA over 24 m are not likely to occur)		
	✓	Data reported by IOTC standards
	≡	Data reported but not to IOTC standards (e.g. catches and effort or size frequency not reported per month or one degree or five degree square area)
		(blank) No data received