

REPORT ON THE IOTC FISHERIES STATISTICS RECORD

Prepared by IOTC Secretariat

This document summarises the information received in accordance with IOTC Resolution 01/05 (previously 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 Recommendation 05/09 *On incidental mortality of seabirds*.

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 2005) 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 05/04) 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.
- Length frequency data: Individual body lengths 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 2005

The status of reporting on fisheries information on the tuna and tuna-like species for the year 2005 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 of as adopted by the IOTC Scientific Committee.

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

Submission of bycatch data for 2005

The status of reporting on bycatch data for the year 2005 is shown in Table 4.

Table 1. IOTC fisheries statistics (Resolution 01/05). Status of reporting for the year 2005. See legend below.

a) IOTC Contracting Parties

IOTC CONTRACTING PARTIES	GEAR	Approximate CATCH 2005 (x1000 t)	NC	CE	SF	FAD	SUP	COMMENTS
Australia	PS	5.3	✓	⚡	⚡			CE data not reported per IOTC grid because of confidentiality issues. SF data not reported per IOTC grid and not reported for all IOTC species. Sample sizes very low.
	LL	0.4	✓	⚡	⚡	-	-	
	OT	0.3	✓	⚡		-	-	
China Taiwan,China	LL	14.1	✓	✓	⚡	-	-	SF for China data from observers, not covering the whole fishing area
	LL	132.8	✓			-	-	
Comoros	OT	10.2				-	-	FAO data
Eritrea	OT	0.1				-	-	FAO data
EC	PS	298.6	✓	✓	✓			CE incomplete for some EC fleets (CE not reported for some species or CE not reported per IOTC grid). SF not available for all fleets or species
	LL	10.5	✓	⚡	⚡	-	-	
	OT	0.5	✓	✓		-	-	
France OT	LL	0.1	✓	⚡		-	-	CE not reported per IOTC grid
	OT	1.0				-	-	
Guinea	LL	0.9	✓	⚡		-	-	CE not reported per IOTC grid
India	LL	1.9	⚡	⚡	⚡	-	-	NC, CE and SF incomplete (LL)
	OT	84	✓			-	-	CE and SF data (OT) not reported because of confidentiality issues
Iran, Islamic Republic	PS	9.7	✓					SF data not reported for all species
	OT	168.3	✓		⚡	-	-	
Japan	PS	4.1	✓	✓				
	LL	35.5	✓	✓		-	-	
Kenya	LL	0.4						Estimated based on the number of vessels reported
	OT	1.7	⚡			-	-	Only data for sport fisheries available
Korea, Republic of	LL	6.9	✓	✓		-	-	
Madagascar	LL	0.9				-	-	Estimate based on the number of vessels reported (Catches reported per vessel for bycatch)
	OT	12.0				-	-	FAO data
Malaysia	LL	3.3	✓	⚡		-	-	CE data not by IOTC grid

IOTC CONTRACTING PARTIES	GEAR	Approximate CATCH 2005 (x1000 t)	NC	CE	SF	FAD	SUP	COMMENTS
		OT	14.5	✓	✓		-	
Mauritius	LL	0.8	✓	✓	⚡	-	-	SF data for LL not reported for all species and not by IOTC grid.
	OT	1.3				-	-	FAO data (OT)
Oman	LL	0.4	✓			-	-	
	OT	28.8	✓			-	-	
Pakistan	OT	28.6				-	-	FAO data
Philippines	LL	5.0	✓	⚡		-	-	CE not reported per IOTC grid
Seychelles	PS	87.5	✓	✓	✓			
	LL	14.4	✓	✓	⚡	-	-	SF not available for all LL fleets
	OT	0.1	✓	✓		-	-	
Sri Lanka	OT	105.2	⚡	⚡	⚡	-	-	CE and SF data not reported per IOTC grid. NC not complete
Sudan	OT	0.0				-	-	FAO data
Thailand	LL	0.3	✓	✓		-	-	
	OT	5.9	✓	✓		-	-	
	PS	23.1	✓	✓				
U.K. OT	OT	0.0	✓			-	-	
Vanuatu	LL	1.3				-	-	Estimate based on the number of vessels reported

b) IOTC Cooperating Non-Contracting Parties

IOTC COOPERATING NON-CONTRACTING PARTIES	GEAR	Approximate CATCH 2005 (x1000 t)	NC	CE	SF	FAD	SUP	COMMENTS
Belize	LL	1.7	✓	⚡		-	-	CE not reported per IOTC grid
Senegal	LL	0.1	✓	⚡		-	-	CE not reported per IOTC grid
Indonesia	LL	33.8	✓	⚡	⚡	-	-	CE and SF for LL not available per IOTC grid FAO data for NC (OT)
	OT	164.9				-	-	
South Africa	LL	0.3	✓	✓	✓	-	-	
	OT	0.0	✓	✓		-	-	

c) IOTC non members: coastal countries

IOTC non-members	GEAR	Approximate CATCH 2005 (x1000 t)	NC	CE	SF	FAD	SUP	COMMENTS
Bahrain	OT	0.1	✓			-	-	
Bangladesh	OT	0.1				-	-	Previous catches repeated
Djibouti	OT	0.1				-	-	FAO data
East Timor	OT	0.0				-	-	FAO data
Egypt	OT	1.0				-	-	FAO data
Jordan	OT	0.1				-	-	FAO data
Kuwait	OT	0.2				-	-	FAO data
Maldives	LL	0.2				-	-	Published Data
	OT	161.3				-	-	
Mozambique	OT	0.0				-	-	No catches estimated; they are thought negligible
Myanmar	OT	0.0				-	-	No catches estimated; they are thought negligible
Qatar	OT	1.9				-	-	FAO data
Saudi Arabia	OT	7.9				-	-	FAO data
Somalia	OT	0.0				-	-	No catches estimated; they are thought negligible
Tanzania	OT	1.5				-	-	FAO data
United Arab Emirates	OT	8.2				-	-	FAO data
Yemen	OT	43.1				-	-	FAO data

d) IOTC non members: distant-water fishing nations (DWFN)

IOTC non-members	GEAR	Approximate CATCH 2005 (x1000 t)	I					COMMENTS
			NC	CE	SF	FAD	SUP	
Other fleets	LL	8.0				-	-	Catches estimated by the IOTC Secretariat for vessels from non-reporting countries that were fishing for IOTC species during 2005 as derived from the information collected by other parties. Catches of IOTC species are presumed for Bolivia, Cambodia, Equatorial Guinea, Georgia, Honduras, Mongolia, Panama and Togo
Other fleets	PS	39.6						Catches estimated by the IOTC Secretariat for vessels from non-reporting countries that were fishing for IOTC species during 2005 as derived from the information collected by other parties.

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): 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 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
	-	No data expected

Table 2. IOTC fisheries statistics (Resolution 01/05). Timeliness of reporting data for the year 2005.

Dataset	On / before Deadline	Within the month of the deadline	Late report	No Report
Nominal Catches	Australia; Japan; Malaysia ; Philippines; Seychelles; EC; Belize; Indonesia; Kenya, Guinea	China; Thailand, EC, Korea; Oman; Senegal	India; Iran; Mauritius; Sri Lanka, EC ; South Africa ; France (OT)	Refer to Table 1 for details (i.e. blank cells)
Catch and Effort	Australia; Belize, Seychelles; EC; Sri Lanka, Malaysia; Japan; Philippines	China; Korea; Senegal, Thailand; EC	India; Mauritius; EC, South Africa ; France (OT)	
Size Frequency	Australia; Seychelles; Sri Lanka, EC ; Indonesia	EC	India; Korea; Mauritius; Iran; EC ; South Africa	
Fish Aggregating Devices purse seine				
Supply Vessels purse seine				

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

Table 4. IOTC bycatch statistics. Status of reporting for the year 2005 (total catches only).

a) IOTC Contracting Parties

IOTC CPC	GEAR	SPECIES GROUP			COMMENTS
		Sharks		Sea birds	
		By species	Aggregated		
Australia	PS				Discard data not complete
	LL	⚡		⚡	
	OT	⚡			
China Taiwan,China	LL				Data incomplete (discards not available)
	LL		⚡	⚡	Data incomplete (discards not available) and when available not per species
Comoros	OT				
Eritrea	OT				
EC	PS				By-catch data incomplete (discards not available) or not per species
	LL	⚡	⚡		
	OT		⚡		
France OT	LL	⚡			Data incomplete (discards not available)
	OT				
Guinea	LL	⚡			Data incomplete (discards not available)
India	LL		⚡		Data incomplete
	OT				
Iran, Islamic Republic	PS, OT				
Japan	PS, LL				
Kenya	LL, OT				
Korea, Republic of	LL		⚡		Data incomplete (discards not available) and when available not per species
Madagascar	LL	⚡			Data incomplete (discards not available)
	OT				

Table 4 a (cont).

Malaysia	LL		⊘		Data incomplete (discards not available) and when available not per species
	OT		✓		
Mauritius	LL		⊘		Data incomplete (discards not available) and when available not per species
	OT				
Oman	LL, OT				
Pakistan	OT				
Philippines	LL		⊘		Data incomplete (discards not available) and when available not per species
Seychelles	PS, OT				Data incomplete (discards not available) and when available not per species
	LL		⊘		
Sri Lanka	OT	✓			
Sudan	OT				
Thailand	PS, LL, OT				
U.K. OT	OT				
Vanuatu	LL				
Belize	LL		⊘		Data incomplete (discards not available) and when available not per species
Senegal	LL	⊘			Data incomplete (discards not available)
Indonesia	LL	⊘			Data incomplete (discards not available) and when available not per species
	OT				
South Africa	LL	✓		⊘	Scientific estimates (total by-catch not reported)
	OT	✓			

b) IOTC non members: coastal countries and distant-water fishing nations (DWFN)

NON-CPC COASTAL	GEAR	SPECIES GROUP				COMMENTS	
		Sharks		Sea Birds	Other		
		Species	Aggregated		FISH		OTHER
Maldives	LL, OT						
Saudi Arabia	OT	✓					
Other coastal countries	OT						Includes Bahrain, Bangladesh, Djibouti, East Timor, Egypt, Jordan, Kuwait, Mozambique, Myanmar, Qatar, Somalia, Tanzania, United Arab Emirates, Yemen
DWFN	LL						
DWFN	PS						

Key Table 1	Sharks	Total catches of sharks reported per species (species) or not per species (aggregated)
	Sea Birds	Total by-catch of sea birds (or CPUE) reported
	Other	Total by-catch of fish species other than sharks (FISH) or other species (OTHER: sea turtles or sea mammals) 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