

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 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 2006) 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 2006

The status of reporting on fisheries information on the tuna and tuna-like species for the year 2006 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 2006

The status of reporting on bycatch data for the year 2006 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 2006. See key below.

a) IOTC Contracting Parties

IOTC CONTRACTING PARTIES	GEAR	Approximate CATCH 2006 (x1000 t)	NC	CE	SF	FAD	SUP	COMMENTS
Australia	PS	8.2	✓	⚡	⚡			CE data reported to IOTC standards but not for release into the public domain. SF data not reported per IOTC grid and not reported for all IOTC species.
	LL	0.4	✓	⚡	⚡	-	-	
	OT	0.3	✓	⚡		-	-	
Belize	LL	1.0	✓	✓		-	-	
China Taiwan,China	LL	13.7	✓	✓		-	-	
	LL	94.1	✓			-	-	
Comoros	OT	10.3				-	-	
Eritrea	OT	0.2				-	-	
EC	PS	307.9	✓	✓	✓		⚡	Only the number of support vessels reported. CE incomplete for some EC fleets (CE not reported for some species). SF reported only for swordfish.
	LL	11.8	✓	⚡	⚡	-	-	
	OT	0.4	✓	✓		-	-	
France TAAF	PS	2.9	✓	✓	✓	-	-	
	OT	0.8	✓	✓		-	-	
Guinea	LL	0.9	⚡	⚡		-	-	Data reported for a two month period only.
India	LL	6.0				-	-	Catches reported only for the Research Vessels. Catch aggregated by gear; CE and SF data (OT) not reported due to alternative priorities for data use
	Res	0.0	✓	✓	✓			
	OT	129.0	⚡			-	-	
Indonesia	LL	21.8	⚡	⚡	⚡	-	-	NC may not be reported for vessels operating outside Indonesia. CE and SF for LL not available per IOTC grid.
	OT	164.9	✓			-	-	
Iran	PS	14.6	✓					
	OT	192.4	✓			-	-	
Japan	PS	2.8	✓	✓				
	LL	49.6	✓	✓		-	-	
Kenya	LL	0.3	✓					Data only available for sport fisheries
	OT	1.7	⚡			-	-	

IOTC CONTRACTING PARTIES	GEAR	Approximate CATCH 2006 (x1000 t)	NC	CE	SF	FAD	SUP	COMMENTS
Korea, Republic of	LL	7.4	✓	✓		-	-	
Madagascar	LL	0.1	⚡			-	-	Catches reported only for January-June 2006.
	OT	12.0				-	-	
Malaysia	LL	2.1	⚡	⚡		-	-	NC/CE for vessels operating outside Malaysia may be incomplete. CE data not by IOTC grid.
	OT	20.3	✓	✓		-	-	
Mauritius	LL	0.9	✓	✓	⚡	-	-	SF data for only albacore and not by IOTC grid.
	OT	1.1				-	-	
Oman	LL	0.4	⚡	⚡		-	-	CE may include catches of foreign vessels operating in Oman.
	OT	31.8	✓			-	-	
Pakistan	OT	29.3				-	-	
Philippines	LL	3.7	✓			-	-	
Seychelles	PS	79.3	✓	✓	✓		⚡	Only the number of support vessels reported. SF only available for the semi-industrial LL fleets.
	LL	7.8	✓	✓	⚡	-	-	
	OT	0.5	✓	✓		-	-	
Sri Lanka	OT	75.4	⚡	⚡	⚡	-	-	NC aggregated by species and gear. CE and SF data not reported per IOTC grid.
Sudan	OT	0.0				-	-	
Tanzania	OT	3.6				-	-	
Thailand	PS	23.5	✓	✓		-	-	NC / CE incomplete.
	LL	0.5	⚡	⚡		-	-	
	OT	18.9	✓	✓				
U.K. (I.O. Territories)	OT	0.0	✓	✓		-	-	

b) IOTC Cooperating Non-Contracting Parties

IOTC COOPERATING NON-CONTRACTING PARTIES	GEAR	Approximate CATCH 2006 (x1000 t)	NC	CE	SF	FAD	SUP	COMMENTS
Senegal	LL	0.0				-	-	
South Africa	LL	0.5	✓	✓	✓	-	-	
	OT	0.0	✓	✓		-	-	
Uruguay	LL	0.1	✓			-	-	

c) IOTC non members: coastal countries

IOTC non-members	GEAR	Approximate CATCH 2006 (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	166.5				-	-	
Mozambique	OT	0.0				-	-	Catches currently not able to be estimated (probably very low).
Myanmar	OT	0.0				-	-	Catches currently not able to be estimated (probably very low).
Qatar	OT	2.3				-	-	
Saudi Arabia	OT	7.9				-	-	
Somalia	OT	0.0				-	-	Catches currently not able to be estimated (probably very low).
United Arab Emirates	OT	7.9				-	-	
Yemen	OT	32.3	⚡			-	-	

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)								
		<table border="1"> <tr> <td style="text-align: center;">✓</td> <td>Data reported by IOTC standards</td> </tr> <tr> <td style="text-align: center;">⚡</td> <td>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)</td> </tr> <tr> <td style="text-align: center;"> </td> <td>(blank) No data received</td> </tr> <tr> <td style="text-align: center;">-</td> <td>No data expected</td> </tr> </table>	✓	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
✓	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 2006.

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

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

Table3. IOTC bycatch statistics. Status of reporting for the year 2006 (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 by species.
	LL	⊘		
Comoros	OT			
Eritrea	OT			
EC	PS			Data not reported by species for some fleets.
	LL	⊘		
	OT	⊘		
France (TAFF)	PS, OT			
Guinea	LL			Data reported for a two month period only.
India	LL,OT			
Indonesia	LL	⊘		Data not reported by species.
	OT			
Iran	PS, OT			
Japan	PS, LL			
Kenya	LL, OT	⊘		Data not reported by species.
Korea, Republic of	LL	⊘		Data not reported by 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			
Pakistan	OT			
Philippines	LL			
Seychelles	PS, OT			Data not reported by species.
	LL	⊘		
Sri Lanka	OT	⊘		Data not reported by species for some fleets.
Sudan	OT			
Tanzania	OT	⊘		Data not reported by species.
Thailand	PS, LL, OT			
U.K. (I.O. Territories)	OT			
Vanuatu	LL			
Senegal	LL			
South Africa	LL	✓	⊘	Scientific estimates (total sea bird bycatch not reported).
	OT	✓		
Uruguay	LL	✓		

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