

## **CPC REPORTING OF BYCATCH DATA AS PER IOTC CONSERVATION AND MANAGEMENT MEASURES**

**PREPARED BY: IOTC SECRETARIAT, 10 OCTOBER, 2011**

### **PURPOSE**

To update the Working Party on Ecosystem and Bycatch (WPEB) on the reporting of bycatch data by the IOTC CPCs as per the requirements set out in the various IOTC Conservation and Management Measures related to bycatch.

### **BACKGROUND**

In order to better assess the quantity, quality and accuracy of the bycatch data reported by IOTC CPCs to the Secretariat, the WPEB made the following recommendation at its 6<sup>th</sup> Session in 2010:

*“The WPEB recommended that a matrix is developed in order to follow the implementation of the IOTC Recommendations and Resolutions related to bycatch and in particular to the sea turtles in the different CPCs”.* (Recommendation 31, WPEB06).

The following Conservation and Management Measures (CMMs) adopted by the Commission deal with the reporting of data on bycatch and catches of sharks:

#### **1/ Resolution 10/02 Mandatory Statistical Requirements For IOTC Members and Cooperating non-Contracting Parties (CPC's)**

Catch and effort data: *“(…) These provisions, applicable to tuna and tuna-like species, shall also be applicable to the most commonly caught shark species and, where possible, to the less common shark species. CPC's are also encouraged to record and provide data on species other than sharks and tunas taken as bycatch.”* (para.3, Res.10/02).

This resolution makes mandatory for CPCs to report catch-and-effort data on some shark species, however, the resolution does not give definitions of “most common shark species” and “less common shark species”. The resolution also encourages reporting of catch data on other species taken as bycatch.

#### **2/ Resolution 05/05 Concerning the conservation of sharks caught in association with fisheries managed by IOTC**

*“Contracting Parties, Cooperating non-Contracting Parties (CPCs) shall annually report data for catches of sharks, in accordance with IOTC data reporting procedures, including available historical data”* (para.1, Res.05/05).

*“This resolution applies only to sharks caught in association with fisheries managed by the IOTC”* (para.11, Res.05/05).

This resolution makes mandatory for CPCs to report catch data for sharks, however, it does not specify the information that shall be reported by species.

#### **3/ Resolution 09/06 on Marine Turtles**

*“CPCs shall collect (including through logbooks and observer programs) and provide to the Scientific Committee all data on their vessels' interactions with marine turtles in fisheries targeting the species covered by the IOTC Agreement.”* (para2, Res.09/06)

“CPCs with gillnet vessels that fish for species covered by the IOTC Agreement shall: (para.5, Res.09/06)

- (a) Require that operators of such vessels record all incidents involving marine turtles during fishing operations in their logbooks<sup>1</sup> and report such incidents to the appropriate authorities of the CPC;
- (b) Provide the results of the reporting under paragraph 5(a) to the Commission as part of the reporting requirement of paragraph 2.”

“CPCs with longline vessels that fish for species covered by the IOTC Agreement shall: (para.6, Res.09/06)

- (...)
- (c) Require that operators of such vessels record all incidents involving marine turtles during fishing operations in their logbooks<sup>2</sup> and report such incidents to the appropriate authorities of the CPC;
- (d) Provide the results of the reporting under paragraph 6(c) to the Commission as part of the reporting requirement of paragraph 2.”

“CPCs with purse seine vessels that fish for species covered by the IOTC Agreement shall: (para.7, Res.09/06)

- (...)
- (c) Require that operators of such vessels record all incidents involving marine turtles during fishing operations in their logbooks<sup>3</sup> and report such incidents to the appropriate authorities of the CPC;
- (d) Provide the results of the reporting under paragraph 7(c) to the Commission as part of the reporting requirement of paragraph 2.”

This resolution makes mandatory for CPCs to report all interactions of fishing vessels with marine turtles, however does not specify if the information shall be reported by species and spatially disaggregated.

#### **4/ Resolution 10/06 On Reducing the Incidental Bycatch of Seabirds in Longline Fisheries**

“CPCs shall provide to the Commission, as part of their annual reports, information on how they are implementing this measure and all available information on interactions with seabirds, including bycatch by fishing vessels carrying their flag or authorised to fish by them. This is to including details of species where available to enable the Scientific Committee to annually estimate seabird mortality in all fisheries within the IOTC area of competence” (para.7, Res.10/06)

This resolution encourages CPCs to report interactions of fishing vessels with seabirds, if possible at the species level.

#### **5/ Resolution 08/04 Concerning The Recording Of Catch By Longline Fishing Vessels In The IOTC Area**

This resolution makes mandatory for longline vessel of and over 24m, and vessels under 24m fishing outside their EEZ and operating in the IOTC area to record for each fishing set the following shark species or group of species in their logbooks:

- Blue shark
- Porbeagle
- Mako shark
- Other sharks

#### **6/ Resolution 10/03 Concerning the recording of catch by fishing vessels in the IOTC area**

This resolution makes mandatory for purse-seine vessel of and over 24m, and vessels under 24m fishing outside their EEZ and operating in the IOTC area to record for each fishing set the total estimated catch per species, including shark and other bycatch species.

#### **7/ Resolution 10/12 On the Conservation of Thresher Sharks (Family Alopiidae) caught in Association with Fisheries in the IOTC Area of Competence**

“CPCs shall encourage their fishermen to record incidental catches as well as live releases. These data will be then kept at the IOTC secretariat” (para.4, Res.10/12)

“The Contracting Parties, Co-operating non-Contracting Parties, especially those directing fishing activities for sharks, shall submit data for sharks, as required by IOTC data reporting procedures (including estimates of dead discard and size frequencies), in advance of the 2011 Scientific Committee meeting” (para. 7, Res.10/12).

<sup>1</sup> This information should include, where possible, details on species, location of capture, conditions, actions taken on board and location of release

<sup>2</sup> This information should include, where possible, details on species, location of capture, conditions, actions taken on board and location of release

<sup>3</sup> This information should include, where possible, details on species, location of capture, conditions, actions taken on board and location of release

**8/ Recommendation 11/06 Concerning the Recording of Catch and Effort by Fishing Vessels in the IOTC Area of Competence**

This recommendation encourages all fishing vessels of and over 24m, and vessels under 24m fishing outside their EEZ and operating in the IOTC area to record for each fishing set or fishing operation the following shark species or group of species in their logbook:

**For longline:**

Mandatory species to be recorded

- Blue Shark (*Prionace glauca*)
- Mako Sharks (*Isurus* spp.)
- Porbeagle Shark (*Lamna nasus*)
- Oceanic Whitetip Shark (*Carcharhinus longimanus*)
- Hammerhead Sharks (*Sphyrna* spp.)
- Other sharks

Optional species to be recorded

- Thresher Sharks (*Alopias* spp.)
- Tiger Shark (*Galeocerdo cuvier*)
- Crocodile Shark (*Pseudocarcharias kamoharai*)
- Other Requiem sharks (*Carcharhinus* spp.)
- Great White shark (*Carcharodon carcharias*)
- Pelagic stingray (*Pteroplatytrygon violacea*)

**For purse-seine:**

Mandatory species to be recorded

*No mandatory species to be recorded*

Optional species to be recorded

- Whale Shark (*Rhincodon typus*)
- Oceanic Whitetip Shark (*Carcharhinus longimanus*)

- Silky sharks (*Carcharhinus falciformis*)
- Other sharks

**For gillnet:**

Mandatory species to be recorded

- Blue Shark (*Prionace glauca*)
- Mako Sharks (*Isurus* spp.)
- Porbeagle Shark (*Lamna nasus*)
- Oceanic Whitetip Shark (*Carcharhinus longimanus*)
- Hammerhead Sharks (*Sphyrna* spp.)
- Other sharks

Optional species to be recorded

- Thresher Sharks (*Alopias* spp.)
- Tiger Shark (*Galeocerdo cuvier*)
- Crocodile Shark (*Pseudocarcharias kamoharai*)
- Other Requiem sharks (*Carcharhinus* spp.)
- Great White shark (*Carcharodon carcharias*)

**For pole-and-line:**

Mandatory species to be recorded

*No mandatory species to be recorded*

Optional species to be recorded

*No optional species to be recorded*

**UPDATE**

Note: the information is provided through submission of NC, CE and SF data to IOTC, submission of National Reports to the Scientific Committee and submission of the Reports of implementation to the Compliance Committee.

CPC	Resolutions relating to bycatch data	Observations
Australia	Res. 10/02 and earlier resolution, plus other related resolutions (R.05/05; 09/06 and 10/06): On Mandatory Statistical Requirements.	Catch of sharks – Reported aggregated NC shark data for 1970-1980 and 1999-2008 and per species for 2009-2010. Bycatch of marine turtles – Observer data reported by species for 2003 to 2009. Bycatch of seabirds – Observer data reported by species for 2003-2009
	Res. 10/03 (PS) & Res. 08/04 (LL) On the Recording of catch by fishing vessels.	Has provided information on the level of implementation and logbook forms used on domestic vessels.
	Res. 10/06 On Reducing incidental bycatch of sea-birds in longline fisheries.	Has reported information for 2009 and 2010.
Belize	Res. 10/02 and earlier resolution, plus other related resolutions (R.05/05; 09/06 and 10/06): On Mandatory Statistical Requirements.	Catch of sharks - Reported aggregated NC shark data in 2002, 2005 and 2006, and per species in 2007 and 2008. Bycatch of marine turtles – Not submitted. Bycatch of seabirds – Not submitted.
	Res. 10/03 (PS) & Res. 08/04 (LL) On the Recording of catch by fishing vessels	Has provided information on the level of implementation.
	Res. 10/06 On Reducing incidental bycatch of sea-birds in longline fisheries	Has reported information for 2010.
China Taiwan,China	Res. 10/02 and earlier resolution, plus other related resolutions (R.05/05; 09/06 and 10/06): On Mandatory Statistical Requirements.	Catch of sharks –Reported aggregated NC shark data for 1999-2000 and disaggregated by species from 2007 to 2009. Bycatch of marine turtles – reported nil catch (not submitted by Taiwan,China) Bycatch of seabirds – reported nil catch (not submitted by Taiwan,China)
	Res. 10/03 (PS) & Res. 08/04 (LL) On the Recording of catch by fishing vessels	China has no purse-seiner in the Indian Ocean and has provided information on the level of implementation on longliners.
	Res. 10/06 On Reducing incidental bycatch of sea-birds in longline fisheries	Has provided information on the level of implementation for 2010.
Comoros	Res. 10/02 and earlier resolution, plus other related resolutions (R.05/05; 09/06 and 10/06): On Mandatory Statistical Requirements.	Catch of sharks – Data not submitted. Bycatch of marine turtles – Data not submitted. Bycatch of seabirds - Data not submitted
	Res. 10/03 (PS) & Res. 08/04 (LL) On the Recording of catch by fishing vessels	Has reported that it does not have longliners.
	Res. 10/06 On Reducing incidental bycatch of sea-birds in longline fisheries	Has reported information for 2010; <i>the fishing technique used by the artisanal fishing fleet does not encourage the incidental catch of seabirds.</i>
Eritrea	Res. 10/02 and earlier resolution, plus other related resolutions (R.05/05; 09/06 and 10/06): On Mandatory Statistical Requirements.	Catch of sharks – Data not submitted. Bycatch of marine turtles – Data not submitted. Bycatch of seabirds - Data not submitted
	Res. 10/03 (PS) & Res. 08/04 (LL) On the Recording of catch by fishing vessels.	Has not provided information on the level of implementation. <i>No logbook has been provided to the Secretariat.</i>

CPC	Resolutions relating to bycatch data	Observations
	Res. 10/06 On Reducing incidental bycatch of sea-birds in longline fisheries.	Has not reported information for 2009. No information provided in 2010
European Union	Res. 10/02 and earlier resolution, plus other related resolutions (R.05/05; 09/06 and 10/06): On Mandatory Statistical Requirements.	Catch of sharks – <u>EU,Spain</u> : reported from 1993 to 2009 data by species for its longline fleet <u>EU,Portugal</u> : reported from 1998 to 2010 data by species for its longline fleet <u>EU,France</u> (Réunion): reported aggregated data from 1993 to 2008 for its longline fleet. <u>EU,UK</u> : reported since 2004-2010 data by species Bycatch of marine turtles – <u>EU,Spain</u> reported data aggregated for its longline fleet <u>EU,France</u> (Réunion): report data by species for its longline fleet <u>EU,UK</u> : report nil catches <u>EU,PS</u> : reported data per species Bycatch of seabirds – <u>EU,Spain</u> reported data aggregated for its longline fleet <u>EU,France</u> (Réunion): report data by species for its longline fleet <u>EU,UK</u> : report nil catches
	Res. 10/03 (PS) & Res. 08/04 (LL) On the Recording of catch by fishing vessels.	Has provided information on the level of implementation and logbook forms used on EU-flagged vessels.
	Res. 10/06 On Reducing incidental bycatch of sea-birds in longline fisheries.	Has reported information for 2009. New regulation being discussed by the European Council in 2011
France (OT)	Res. 10/02 and earlier resolution, plus other related resolutions (R.05/05; 09/06 and 10/06): On Mandatory Statistical Requirements.	Catch of sharks – Data submitted. Bycatch of marine turtles – Data submitted by species for longliners (observer). Bycatch of seabirds - Data submitted by species (observer).
	Res. 10/03 (PS) & Res. 08/04 (LL) On the Recording of catch by fishing vessels.	Has provided information on the level of implementation and logbook forms used on domestic vessels. <i>Aggregated data have not been</i> submitted for foreign licensed vessels. Only provided list of foreign vessels for 2010
	Res. 10/06 On Reducing incidental bycatch of sea-birds in longline fisheries.	Has reported information for 2009 and 2010
Guinea	Res. 10/02 and earlier resolution, plus other related resolutions (R.05/05; 09/06 and 10/06): On Mandatory Statistical Requirements.	Catch of sharks – Data not submitted. Reported catches by species from 2001 to 2003 and 2005 Bycatch of marine turtles – Data not submitted. Bycatch of seabirds - Data not submitted
	Res. 10/03 (PS) & Res. 08/04 (LL) On the Recording of catch by fishing vessels.	Has not provided information on the level of implementation.
	Res. 10/06 On Reducing incidental bycatch of sea-birds in longline fisheries.	Has not reported information for 2009.
Indonesia	Res. 10/02 and earlier resolution, plus other related resolutions (R.05/05; 09/06 and 10/06): On Mandatory Statistical Requirements.	Catch of sharks –. Has reported data since 1997-2009 with different levels of disaggregation by species Bycatch of marine turtles – Data not submitted. Bycatch of seabirds - Data not submitted

CPC	Resolutions relating to bycatch data	Observations
	Res. 10/03 (PS) & Res. 08/04 (LL) On the Recording of catch by fishing vessels.	Has not provided information on the level of implementation.
	Res. 10/06 On Reducing incidental bycatch of sea-birds in longline fisheries.	Has not provided information on the level of implementation.
India	Res. 10/02 and earlier resolution, plus other related resolutions (R.05/05; 09/06 and 10/06): On Mandatory Statistical Requirements.	Catch of sharks – Reporting of low catches from 1986 to 2002. No data reported since 2002 Bycatch of marine turtles – Data not submitted. Bycatch of seabirds - Data not submitted.
	Res. 10/03 (PS) & Res. 08/04 (LL) On the Recording of catch by fishing vessels.	Has not provided information on the level of implementation.
	Res. 10/06 On Reducing incidental bycatch of sea-birds in longline fisheries.	Has not provided information on the level of implementation.
Iran	Res. 10/02 and earlier resolution, plus other related resolutions (R.05/05; 09/06 and 10/06): On Mandatory Statistical Requirements.	Catch of sharks – Data not submitted. Bycatch of marine turtles – Data not submitted. Bycatch of seabirds - Data not submitted
	Res. 10/03 (PS) & Res. 08/04 (LL) On the Recording of catch by fishing vessels.	Has not provided information on the level of implementation.
	Res. 10/06 On Reducing incidental bycatch of sea-birds in longline fisheries.	Has not provided information on the level of implementation.
Japan	Res. 10/02 and earlier resolution, plus other related resolutions (R.05/05; 09/06 and 10/06): On Mandatory Statistical Requirements.	Catch of sharks –Reported NC shark data by species in 2009-2010 for its longline fleet Bycatch of marine turtles – Data not submitted. Bycatch of seabirds - Data not submitted.
	Res. 10/03 (PS) & Res. 08/04 (LL) On the Recording of catch by fishing vessels.	Has provided information on the level of implementation and logbook forms used on domestic vessels.
	Res. 10/06 On Reducing incidental bycatch of sea-birds in longline fisheries.	Has reported information for 2009.
Kenya	Res. 10/02 and earlier resolution, plus other related resolutions (R.05/05; 09/06 and 10/06): On Mandatory Statistical Requirements.	Catch of sharks –Reported NC shark data by species from 2006-2009 for its longline fleet. Bycatch of marine turtles – Data not submitted. Bycatch of seabirds - Data not submitted.
	Res. 10/03 (PS) & Res. 08/04 (LL) On the Recording of catch by fishing vessels.	Has provided information on the level of implementation. <i>Aggregated data have not been</i> submitted for foreign licensed vessels.
	Res. 10/06 On Reducing incidental bycatch of sea-birds in longline fisheries.	Has not reported information for 2009.
Korea, Republic of	Res. 10/02 and earlier resolution, plus other related resolutions (R.05/05; 09/06 and 10/06): On Mandatory Statistical Requirements.	Catch of sharks –Reported NC shark data aggregated from 1971-2009. Reported some size data in 2007. Submitted for year 2010 Bycatch of marine turtles – Data not submitted. Bycatch of seabirds - Data not submitted.
	Res. 10/03 (PS) & Res. 08/04 (LL) On the Recording of catch by fishing vessels.	Has provided information on the level of implementation.
	Res. 10/06 On Reducing incidental bycatch of sea-birds in longline fisheries.	Has reported information for 2009 and 2010

CPC	Resolutions relating to bycatch data	Observations
Sri Lanka	Res. 10/02 and earlier resolution, plus other related resolutions (R.05/05; 09/06 and 10/06): On Mandatory Statistical Requirements.	Catch of sharks – Published NC shark data aggregated from 1951-1993. and disaggregated from 1994-1999. Reported partial NC shark data per species from 2000-2006 and aggregated from 2007-2010. Bycatch of marine turtles – Data not submitted. Bycatch of seabirds - Data not submitted
	Res. 10/03 (PS) & Res. 08/04 (LL) On the Recording of catch by fishing vessels.	Has not provided information on the level of implementation. Had provided list of foreign vessels only for 2010
	Res. 10/06 On Reducing incidental bycatch of sea-birds in longline fisheries.	Has reported that due to the nature of the longline operations no seabird is being caught
Madagascar	Res. 10/02 and earlier resolution, plus other related resolutions (R.05/05; 09/06 and 10/06): On Mandatory Statistical Requirements.	Catch of sharks – Reported NC shark data aggregated in 2005. Bycatch of marine turtles – Data not submitted. Bycatch of seabirds - Data not submitted.
	Res. 10/03 (PS) & Res. 08/04 (LL) On the Recording of catch by fishing vessels.	Has not provided information on the level of implementation.
	Res. 10/06 On Reducing incidental bycatch of sea-birds in longline fisheries.	Has not reported information for 2009 and 2010
Maldives	Res. 10/02 and earlier resolution, plus other related resolutions (R.05/05; 09/06 and 10/06): On Mandatory Statistical Requirements.	Catch of sharks –. Reported NC shark data aggregated in 2008, 2009 and 2010. Bycatch of marine turtles – Data not submitted. Bycatch of seabirds - Data not submitted
	Res. 10/03 (PS) & Res. 08/04 (LL) On the Recording of catch by fishing vessels.	Has not provided information on the level of implementation. <i>Aggregated data have not been</i> submitted for foreign licensed vessels.
	Res. 10/06 On Reducing incidental bycatch of sea-birds in longline fisheries.	Has provided information on the level of implementation in 2010, but no longliners at the moment.
Mauritius	Res. 10/02 and earlier resolution, plus other related resolutions (R.05/05; 09/06 and 10/06): On Mandatory Statistical Requirements.	Catch of sharks – Reported NC shark data aggregated from 2001 to 2010. Bycatch of marine turtles – Data not submitted. Bycatch of seabirds - Data not submitted.
	Res. 10/03 (PS) & Res. 08/04 (LL) On the Recording of catch by fishing vessels.	Has provided information on the level of implementation and logbook forms used on domestic vessels. <i>Logbook forms and aggregated data have been</i> submitted for foreign licensed vessels.
	Res. 10/06 On Reducing incidental bycatch of sea-birds in longline fisheries.	Has reported information for 2009 and 2010
Malaysia	Res. 10/02 and earlier resolution, plus other related resolutions (R.05/05; 09/06 and 10/06): On Mandatory Statistical Requirements.	Catch of sharks – Reported NC shark data aggregated in 1999 Bycatch of marine turtles – Data not submitted. Bycatch of seabirds - Data not submitted.
	Res. 10/03 (PS) & Res. 08/04 (LL) On the Recording of catch by fishing vessels.	Has reported information in 2010 on Res.10/03 Provided list of foreign vessels for 2010
	Res. 10/06 On Reducing incidental bycatch of sea-birds in longline fisheries.	Has not provided information on the level of implementation but promoted the use of circle hooks.
Mozambique	Res. 10/02 and earlier resolution, plus other related resolutions (R.05/05; 09/06 and 10/06):	Catch of sharks - No data submitted

CPC	Resolutions relating to bycatch data	Observations
	On Mandatory Statistical Requirements.	Bycatch of marine turtles – Data not submitted. Bycatch of seabirds - Data not submitted.
	Res. 10/03 (PS) & Res. 08/04 (LL) On the Recording of catch by fishing vessels.	Has not provided information on the level of implementation. <i>Aggregated data have not been</i> submitted for foreign licensed vessels. Provided list of foreign vessels only for year 2010
	Res. 10/06 On Reducing incidental bycatch of sea-birds in longline fisheries.	Has not reported information for 2009
Oman	Res. 10/02 and earlier resolution, plus other related resolutions (R.05/05; 09/06 and 10/06): On Mandatory Statistical Requirements.	Catch of sharks –. Reported NC shark data aggregated data from 1997-2008.  Bycatch of marine turtles – Data not submitted. Bycatch of seabirds - Data not submitted.
	Res. 10/03 (PS) & Res. 08/04 (LL) On the Recording of catch by fishing vessels.	Has not provided information on the level of implementation. Has provided logbook forms used on domestic vessels. <i>Aggregated data have not been</i> submitted for foreign licensed vessels.
	Res. 10/06 On Reducing incidental bycatch of sea-birds in longline fisheries.	Has reported information on level of implementation but no incidental catch is reported.
Pakistan	Res. 10/02 and earlier resolution, plus other related resolutions (R.05/05; 09/06 and 10/06): On Mandatory Statistical Requirements.	Catch of sharks – Reported NC shark data aggregated 1992-2004 and in 2008. Bycatch of marine turtles – Data not submitted. Bycatch of seabirds - Data not submitted.
	Res. 10/03 (PS) & Res. 08/04 (LL) On the Recording of catch by fishing vessels.	Has not provided information on the level of implementation. Has not provided logbook forms used on domestic vessels.  <i>Aggregated data have not been</i> submitted for foreign licensed vessels.
	Res. 10/06 On Reducing incidental bycatch of sea-birds in longline fisheries.	Does not have a longline fleet
Philippines	Res. 10/02 and earlier resolution, plus other related resolutions (R.05/05; 09/06 and 10/06): On Mandatory Statistical Requirements.	Catch of sharks –. Reported some NC shark data by species in 2010. Bycatch of marine turtles – Data not submitted. Bycatch of seabirds - Data not submitted.
	Res. 10/03 (PS) & Res. 08/04 (LL) On the Recording of catch by fishing vessels.	Has not provided information on the level of implementation.
	Res. 10/06 On Reducing incidental bycatch of sea-birds in longline fisheries.	Reported that they encourage fishermen to ensure that the hook sink beyond the reach of seabirds
Senegal	Res. 10/02 and earlier resolution, plus other related resolutions (R.05/05; 09/06 and 10/06): On Mandatory Statistical Requirements.	Catch of sharks – Reported NC catch data by species for 2003-2005. Bycatch of marine turtles – Data not submitted. Bycatch of seabirds - Data not submitted
	Res. 10/03 (PS) & Res. 08/04 (LL) On the Recording of catch by fishing vessels.	Has not provided information on the level of implementation.
	Res. 10/06 On Reducing incidental bycatch of sea-birds in longline fisheries.	Has not reported information for 2009.
Sudan	Res. 10/02 and earlier resolution, plus other related resolutions (R.05/05; 09/06 and 10/06): On Mandatory Statistical Requirements.	Catch of sharks – Data not submitted. Bycatch of marine turtles – Data not submitted. Bycatch of seabirds - Data not submitted. <i>Sudan does not have an authorised fleet.</i>



CPC	Resolutions relating to bycatch data	Observations
	Res. 10/03 (PS) & Res. 08/04 (LL) On the Recording of catch by fishing vessels	Has not provided information on the level of implementation.
	Res. 10/06 On Reducing incidental bycatch of sea-birds in longline fisheries	Has not reported information
Sierra Leone	Res. 10/02 and earlier resolution, plus other related resolutions (R.05/05; 09/06 and 10/06): On Mandatory Statistical Requirements.	<i>Does not have an active fleet in the IOTC Area.</i>
	Res. 10/03 (PS) & Res. 08/04 (LL) On the Recording of catch by fishing vessels	<i>Does not have an active fleet in the IOTC Area.</i>
	Res. 10/06 On Reducing incidental bycatch of sea-birds in longline fisheries	<i>Does not have an active fleet in the IOTC Area.</i>
Seychelles	Res. 10/02 and earlier resolution, plus other related resolutions (R.05/05; 09/06 and 10/06): On Mandatory Statistical Requirements.	Catch of sharks – Report NC shark data aggregated for 1997-2007 and by species in 2008, 2009 and 2010 for its longline fleet. Bycatch of marine turtles – Data not submitted. Bycatch of seabirds - Data not submitted.
	Res. 10/03 (PS) & Res. 08/04 (LL) On the Recording of catch by fishing vessels.	Has not provided information on the level of implementation. <i>Aggregated data have not been submitted for foreign licensed vessels</i>
	Res. 10/06 On Reducing incidental bycatch of sea-birds in longline fisheries.	Has not reported information for 2009 and 2010.
South Africa	Res. 10/02 and earlier resolution, plus other related resolutions (R.05/05; 09/06 and 10/06): On Mandatory Statistical Requirements.	Catch of sharks – Data submitted. Reported NC shark data by species for 1985-2010 Bycatch of marine turtles – Data submitted by species. Bycatch of seabirds - Data submitted
	Res. 10/03 (PS) & Res. 08/04 (LL) On the Recording of catch by fishing vessels.	Has provided information on the level of implementation and logbook forms used on its vessels. Submitted for foreign vessels (Japan) 2010
	Res. 10/06 On Reducing incidental bycatch of sea-birds in longline fisheries.	Has reported information for 2009 but not in 2010.
Tanzania	Res. 10/02 and earlier resolution, plus other related resolutions (R.05/05; 09/06 and 10/06): On Mandatory Statistical Requirements.	Catch of sharks – Reported some NC catch data from 1971-1989. Bycatch of marine turtles – Data not submitted. Bycatch of seabirds - Data not submitted.
	Res. 10/03 (PS) & Res. 08/04 (LL) On the Recording of catch by fishing vessels.	Has not provided information on the level of implementation. <i>Aggregated data have not been submitted for foreign licensed vessels</i>
	Res. 10/06 On Reducing incidental bycatch of sea-birds in longline fisheries.	Has reported information for 2010 for foreign licensed vessel.
Thailand	Res. 10/02 and earlier resolution, plus other related resolutions (R.05/05; 09/06 and 10/06): On Mandatory Statistical Requirements.	Catch of sharks – Reported NC shark data aggregated in 2001 and 2002 Bycatch of marine turtles – Data not submitted. Bycatch of seabirds - Data not submitted.
	Res. 10/03 (PS) & Res. 08/04 (LL) On the Recording of catch by fishing vessels.	Has provided information on the level of implementation.
	Res. 10/06 On Reducing incidental bycatch of sea-birds in longline fisheries.	Has reported information for 2010
UK (OT)	Res. 10/02 and earlier resolution, plus other related resolutions (R.05/05; 09/06 and 10/06): On Mandatory Statistical Requirements.	<i>UK (OT) does not have a fleet. Information reported under these resolutions relate to the recreational fishery.</i>

CPC	Resolutions relating to bycatch data	Observations
	Res. 10/03 (PS) & Res. 08/04 (LL) On the Recording of catch by fishing vessels.	<i>UK (OT) has reported it does not have a fleet. Total catches has been submitted by vessel.</i>
	Res. 10/06 On Reducing incidental bycatch of sea-birds in longline fisheries.	<i>UK (OT) has reported it does not have a fleet.</i>
Vanuatu	Res. 10/02 and earlier resolution, plus other related resolutions (R.05/05; 09/06 and 10/06): On Mandatory Statistical Requirements.	Catch of sharks – Data not submitted Bycatch of marine turtles – Data not submitted. Bycatch of seabirds - Data not submitted
	Res. 10/03 (PS) & Res. 08/04 (LL) On the Recording of catch by fishing vessels.	No information submitted
	Res. 10/06 On Reducing incidental bycatch of sea-birds in longline fisheries.	No information submitted

**RECOMMENDATIONS**

That the Working Party on Ecosystems and Bycatch:

- 1) **NOTE** that the level of reporting of bycatch data as per IOTC Conservation and Management Measures (CMMs) by CPCs is limited, and **AGREE** that the current set of IOTC CMMs does not provide the necessary framework to ensure that CPCs collect and report detailed data on bycatch to the Secretariat, so that the status of shark resources and the impact of incidental catches by fishing vessels targeting tuna and tune-like species in the IOTC area on marine turtles and seabirds can be determined.
- 2) **RECOMMEND** that the Working Party on Data Collection and Statistics review the data to be recorded in the logbook by fishing vessels in the IOTC area of competence, and in particular on the list of shark species for which catch, catch and effort and size data should be recorded.
- 3) **RECOMMEND** that the current IOTC Resolution 05/05 *Concerning the conservation of sharks caught in association with fisheries managed by IOTC*, is strengthened to ensure that CPCs report annually on the nominal catches, catch and effort and size data for shark species identified by the WPDCS.
- 4) **RECOMMEND** that current IOTC Resolution 09/06 *on Marine Turtles* and Resolution 10/06 *On Reducing the Incidental Bycatch of Seabirds in Longline Fisheries* are strengthened to ensure that CPCs report annually on the level of incidental catches of marine turtles and seabirds by species.