



IOTC-2014-WPDCS10-10 Rev_1

UPDATE ON THE IMPLEMENTATION OF THE IOTC REGIONAL OBSERVER SCHEME

PREPARED BY: IOTC SECRETARIAT¹, 16 NOVEMBER 2014

PURPOSE

To inform the Working Party on Data Collection and Statistics (WPDCS) of the status of implementation and reporting to the IOTC Secretariat of the Regional Observer Scheme (ROS) set out by Resolution 11/04 *on a Regional Observer Scheme* at the 15th Session of IOTC (S15) in 2011.

BACKGROUND

At the 13th Session of the Commission (S13), the Commission adopted Resolution 09/04 *on a Regional Observer Scheme*, which was superseded in 2010 by Resolution 10/04, and again in 2011 by Resolution 11/04. In 2010, the Commission addressed concerns raised by some CPCs with artisanal fleets, on which it is difficult to deploy on-board observers due to the small-size of the artisanal vessels and/or to their large numbers which would require high deployment levels and in 2011, the Commission extended the period for submitting the Observer Trip Report from 90 days to 150 days.

Resolution 11/04 on a Regional Observer Scheme makes provision for the development and implementation of national observer programmes among the IOTC CPCs starting in July 2010 and covering "at least 5 % of the number of operations/sets for each gear type by the fleet of each CPC while fishing in the IOTC Area of competence of 24 meters overall length and over, and under 24 meters if they fish outside their EEZs shall be covered by this observer scheme. For vessels under 24 meters if they fish outside their EEZs should be achieved progressively by January 2013".

Moreover, the resolution states that "the number of the artisanal fishing vessels landings shall also be monitored at the landing place by field samplers" and that "the indicative level of the coverage of the artisanal fishing vessels should progressively increase towards 5% of the total levels of vessel activity (i.e. total number of vessel trips or total number of vessels active)".

The resolution goes on to state "CPCs shall provide to the Executive Secretary and the Scientific Committee annually a report of the number of vessels monitored and the coverage achieved by gear type in accordance with the provisions of this Resolution".

DISCUSSION

Implementation of the observer scheme

As of 1st November 2014, fourteen CPCs (Australia, China, Comoros, EU(France² and Portugal), Indonesia, Japan, Kenya, Korea (Rep. of), Madagascar, Maldives, Mauritius, Mozambique, Seychelles and South Africa) have submitted a list of observers and have been allocated an IOTC observer registration number.

As of 1st November 2014, one hundred and seventy two (172) observer trip reports have been submitted to the IOTC Secretariat by Australia, China, EU(France and Portugal), Japan, Rep. of Korea, Madagascar, Mozambique and South Africa.

<u>Appendix A</u> provides a summary of the status of implementation of the ROS by all IOTC CPCs.

Coverage rates

<u>Appendix B</u> and <u>Appendix C</u> provide an estimation of the level of effort covered by observers in 2010 - 2014 for industrial longline and purse seine vessels (data as of 1 November 2014). Reported coverage for the artisanal fleets is currently zero, but in future a summary will also be provided to give an overview of the level of coverage achieved by these fleets. While CPCs are required to report on the level of coverage by gear type, the methods used to estimate the level of coverage achieved are often not provided. Given there are some discrepancies between coverage rates estimated by the IOTC Secretariat and the coverage rates reported by CPCs, clarity on the methods used are needed.

Data reporting

At its 13th Session in 2010, the IOTC Scientific Committee reviewed the report of the technical workshop organised in May 2010, and endorsed the documents produced by the Secretariat; an Observer Manual³ and an Observer Trip Report template⁴

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² Including Mayotte due to its status as a French outermost region since January 2014

³ IOTC-2010-SC-11

⁴ IOTC-2010-SC-12

containing the minimum reporting requirements. These were subsequently formally adopted at the 15th session of the Commission in 2011 where it was noted⁵ "Minimum data requirements were adopted as well as an observer report template that will be reviewed and revised as necessary". Resolution 11/04 was also adopted which states "the IOTC Scientific Committee will elaborate an observer working manual, a template to be used for reporting (including minimum data fields) and a training program".

During the 10th WPEB a number of issues with the quality of data reported and the current format in which the data are submitted were discussed. During the meeting a number of fishery-specific working groups were held in order to review the current format of the observer reporting templates. A key issue raised was the need for data submission in electronic format, noting that to date only one CPC has provided all data electronically and that this would improve the efficiency of data collation and management for analysis. The WPEB agreed to prioritise the data collection requirements based on the objectives of the Scientific Committee, ensuring that all necessary data are collected in the required format while ensuring that there is a clear purpose for every data field to prevent the collection of redundant information. Based on this, a number of suggestions for improvements to the data collection process were raised by these groups. This led to the request by the Working Party, as noted in paragraph 55 of the report⁶:

"The WPEB **REQUESTED** that the IOTC Secretariat finalise the revision of the observer reporting templates intersessionally based on the gear-specific recommendations made by the breakout group meetings held during the current working party meeting, and for these revisions to be provided to the WPDCS for its consideration and then the Scientific Committee for adoption".

The revised draft templates are provided in this document in <u>Appendix D</u> for consideration by the WPDCS. It is therefore proposed that the WPDCS10 reviews and revises the reporting templates as necessary to improve the quality of data submissions and presents this to the 17th Session of the Scientific Committee for adoption.

RECOMMENDATIONS

That the WPDCS **RECOMMEND** that the Scientific Committee:

- 1) **ADOPT** a revised version of the observer trip reporting templates, consistent with Resolution 11/04 "...the IOTC Scientific Committee will elaborate an observer working manual, a template to be used for reporting (including minimum data fields) and a training program".
- 2) **RECOMMEND** the Commission consider a requirement for all CPCs to submit observer data in electronic format to facilitate data management and timely use of data.

APPENDICES

- Appendix A: Update on the implementation of the IOTC regional observer scheme
- Appendix B: Estimated observer coverage for longline vessels
- Appendix C: Estimated observer coverage for Purse seine vessels
- Appendix D: Draft observer reporting templates

⁵ IOTC-2011-S15-R[E]

⁶ IOTC-2014-WPEB10-R[E]

APPENDIX A UPDATE ON THE IMPLEMENTATION OF THE IOTC REGIONAL OBSERVER SCHEME

			els LOA beas vess			List of accredited		Number of	observer repo	rts provided ⁸	
CPCs	LL	PS	GN	BB	Progress	observers submitted	2010	2011	2012	2013	2014
MEMBERS											
Australia	4	5			Australia has implemented an observer programme for the longline fleet	YES: 21	2(0)	1(0)	3(0)	No	2(0)
Belize	3				Belize is planning to launch an observer programme in 2104.	No	No	No	No	No	No
China	36				China has an observer programme and has submitted two trip reports.	YES: 2	1(0)	No	1(0)	No	No
–Taiwan,China	272					YES: 54	No	No	No	No	No
Comoros					Comoros does not have vessels \geq 24m. Two observers were trained under the IOC Regional Monitoring Project, and 5 by SWIOFP.	YES: 7	N/A	N/A	N/A	N/A	N/A
Eritrea	No	informa	ation rece	eived	No information received by the Secretariat.	No	No	No	No	No	No
European Union	48	27			EU has an observer programme on-board its purse seine and longline fleets. To date, no information has been received from EU,Spain and EU,UK.	Partial: EU,France: 52 EU,Portugal: 4 EU,Spain : No EU,UK : No	No	EU, France: 13+9(O) EU, Portugal: 1(O)	EU, France: 13+7(O) EU, Portugal: 1(O)	EU, France: 16+6(O) EU, Portugal: 1(O)	EU, France: 18(O) EU, Portugal 1(O)
Guinea					No information received by the Secretariat.	No	No	No	No	No	No
India					India has not yet developed an observer programme.	No	No	No	No	No	No
Indonesia	1238				Indonesia has 13 registered IOTC observers	YES:13	No	No	No	No	No
Iran, Isl. Rep. of		4	1224		No information received by the Secretariat.	No	No	No	No	No	No
Japan	73				Japan started its observer programme on the 1 st of July 2010, and currently deploys 19 observers in the Indian Ocean.	YES: 19	6(E)	8(E)	14(E)	No	No
Kenya					Kenya is developing an observer programme and 5 observers have been trained by SWIOFP.	YES: 5	No	No	No	No	No
Korea, Rep. of	9	4			Korea has had an observer programme since 2002 with 3 observers deployed in the Indian Ocean.	YES: 29	2(0)	No	2(0)	3(O)	No
Madagascar	8				Madagascar is developing an observer programme. Five and three observers have been trained through SWIOFP and IOC respectively.	YES: 7	No	No	5(O)	No	No

⁷ The number of active vessels is given for 2013.
⁸ Year in which the observed trip has started (E: Electronic; O: Other)

			els LOA eas vess		D	List of accredited		Number of	observer repo	rts provided ⁸	
CPCs	LL	PS	GN	BB	Progress	observers submitted	2010	2011	2012	2013	2014
Malaysia	5				Malaysia is developing plans for the implementation of an observer programme.	No	No	No	No	No	No
Maldives	7			311	Maldivian vessel landings are monitored by field samplers at landing sites. Maldives is currently developing an at-sea observer programme.	YES: 4	No	No	No	No	No
Mauritius		2			Mauritius is developing an observer programme. Five observers have been trained through SWIOFP and three through the IOC.	YES: 8	No	No	No	No	No
Mozambique					Mozambique has an observer programme and has submitted one trip report.	YES: 11	No	No	1(0)	No	No
Oman	5				No information received by the Secretariat.	No	No	No	No	No	No
Pakistan					No information received by the Secretariat.	No	No	No	No	No	No
Philippines	9				No information received by the Secretariat.	No	No	No	No	No	No
Seychelles	32	7			Seychelles is developing an observer programme. Four observers have been trained through SWIOFP and three through the IOC.	YES: 7	No	No	No	No	No
Sierra Leone	No	informa	tion rece	eived	No information received by the Secretariat.	No	No	No	No	No	No
Somalia	No	informa	tion rece	eived	No information received by the Secretariat.	No	No	No	No	No	No
Sri Lanka	7	8	2226		Sri Lanka has begun a pilot observer initiative.	No	No	No	No	No	No
Sudan	No	informa	tion rece	eived	No information received by the Secretariat.	No	No	No	No	No	No
Tanzania, United Rep.of	5				Tanzania does not currently have an observer programme in place.	No	No	No	No	No	No
Thailand	5				No information received by the Secretariat.	No	No	No	No	No	No
United Kingdom					The UK does not have any active vessels in the Indian Ocean.	N/A	N/A	N/A	N/A	N/A	N/A
Vanuatu	3				Vanuatu does not currently have an observer programme in place.	No	No	No	No	No	No
Yemen	No	informa	tion rece	eived	No information received by the Secretariat.	No	No	No	No	No	No
				COO	PERATING NON-CONTRACTING PARTIES						
Djibouti					No information received by the Secretariat.	No	No	No	No	No	No
Senegal					Senegal has not had any active vessels in the Indian Ocean since 2007.	N/A	N/A	N/A	N/A	N/A	N/A
South Africa	10			5	South Africa currently only operates an observer programme for foreign vessels operating within the EEZ.	YES: 16	No	13(O) ⁹	10(O) ⁹	13(O) ⁹	No

⁹ Reports from South African observers onboard foreign vessels operating in the EEZ of South Africa.

APPENDIX B ESTIMATED OBSERVER COVERAGE FOR LONGLINE VESSELS

	Tota	al effort (no.ho	ooks)		Observed	d effort (n	o. hooks)			Coverage		
MEMBERS	2010	2011	2012	2013	2010	2011	2012	2013	2010	2011	2012	2013
Australia	622,461	359,832	672,398	609,995	15330	6232	89490		2.46%	1.73%	13.31%	0.00%
Belize	724,486	676,998	1,741,534	331,862					0.00%	0.00%	0.00%	0.00%
China	16,993,970	4,136,710	11,295,050	23,439,470	95205		185742		0.56%	0.00%	1.64%	0.00%
–Taiwan,China	214,609,423	182,076,627	156,741,282	178,887,567					0.00%	0.00%	0.00%	0.00%
Comoros												
Eritrea												
EU - France	3,781,554	3,769,250	3,367,941	4,042,077		113269	74502	96379	0.00%	3.01%	2.21%	2.38%
EU - Portugal	949,134	903,600	685,206	1,558,000		140317	73685	127580	0.00%	15.53%	10.75%	8.19%
EU - Spain	3,174,705	3,758,516	4,673,785	6,262,822					0.00%	0.00%	0.00%	0.00%
EU - UK	61,400	92,300	71,400	55,000					0.00%	0.00%	0.00%	0.00%
Guinea	363,100								0.00%			
India	107,922,649	169,781,943	105,730,538	127,556,746					0.00%	0.00%	0.00%	0.00%
Indonesia	126,596,494	135,296,472	173,127,619	146,519,356					0.00%	0.00%	0.00%	0.00%
Iran, Isl. Rep. of												
Japan	37,032,932	28,854,054	31,460,928	29,513,296	1150505	603157	953098		3.11%	2.09%	3.03%	0.00%
Kenya	118,990								0.00%			
Korea, Rep. of	6,013,391	5,862,681	4,690,407	5,937,215	389042		282656	546927	6.47%	0.00%	6.03%	9.21%
Madagascar	638,864	506,290	517,550	640,816			6140		0.00%	0.00%	1.19%	0.00%
Malaysia	18,202,625	13,648,325	5,462,992	4,420,948					0.00%	0.00%	0.00%	0.00%
Maldives			77,856	828,532							0.00%	0.00%
Mauritius	267,063	252,480	182,300	150,560					0.00%	0.00%	0.00%	0.00%
Mozambique	1,104,480	1,008,299	616,633				1100		0.00%	0.00%	0.18%	
Oman, Sultanate of	20,917,761	17,432,950	7,025,701	2,822,285					0.00%	0.00%	0.00%	0.00%
Pakistan	-/- / -	, , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1									
Philippines	3,851,732	709,680	8,198,773	4,228,476					0.00%	0.00%	0.00%	0.00%
Seychelles	4,448,852	3,094,960	3,443,897	3,912,953					0.00%	0.00%	0.00%	0.00%
Sierra Leone												
Somalia												
Sri Lanka	117,531,924	102,642,439	113,170,171	117,189,595					0.00%	0.00%	0.00%	0.00%
Sudan												
Tanzania, United												
Rep.of	2,208,959	4,289,613	3,711,379	3,711,379					0.00%	0.00%	0.00%	0.00%
Thailand	1,719,331	1,041,600	1,275,246	964,663					0.00%	0.00%	0.00%	0.00%
United Kingdom												
Vanuatu	887,401		989,831	989,831					0.00%		0.00%	0.00%
Yemen												
COOPERATING NON	CONTRACTING	PARTIES			-							
Djibouti												
Senegal												
South Africa	1,053,170	1,219,015	1,176,125	959,285			293685	836759	0.00%	0.00%	0.00%	0.00%
Other	13,891,810	9,941,978	10,988,653	10,988,653								
	705,688,660	691,356,611	1	676,521,382					0.23%	0.12%	0.30%	0.24%

Key: TOTAL EFFORT (#HOOKS): Total number of hooks set by longliners, by fishing fleet and year, including:

• Total effort available (green font)

Sampled effort available; raised to represent total catch of IOTC species (as in IOTC Nominal Catch database) (brown font)
Effort not available; total effort estimated using the nominal catches available and catch rates from other fleets or year periods

(red font)

*NB: Portuguese effort for 2012 has been taken from the National Report and effort in 2013 is an estimate provided by Portugal

APPENDIX C Estimated observer coverage for purse seine vessels

	Total effort	t (no. fish	ing days)		Observed e	ffort (no. f	ishing day	5)	(Coverage		
MEMBERS	2010	2011	2012	2013	2010	2011	2012	2013	2010	2011	2012	2013
Australia	216	142	147	123					0.00%	0.00%	0.00%	0.00%
Belize												
China												
–Taiwan,China												
Comoros												
Eritrea												
EU - France	2801	3114	3052	3390		360	425	364	0.00%	11.56%	13.93%	10.74%
EU - Portugal												
EU - Spain	3531	3555	3684	3899					0.00%	0.00%	0.00%	0.00%
EU - UK												
Guinea												
India												
5												
Indonesia												
Iran, Isl. Rep. of	158	152	167	158					0.00%	0.00%	0.00%	0.00%
Japan	96	104	72	34					0.00%	0.00%	0.00%	0.00%
Kenya												
Korea, Rep. of			110	357				33			0.00%	9.24%
Madagascar												
Malaysia	15								0.00%			
Maldives												
Mauritius				25								0.00%
Mozambique												
Oman, Sultanate												
of												
Pakistan												
Philippines												
Seychelles	2144	2166	1969	1670					0.00%	0.00%	0.00%	0.00%
Sierra Leone												
Somalia												
Sri Lanka				57								0.00%
Sudan												
Tanzania, United												
Rep.of												
Thailand	170								0.00%			
United Kingdom												
Vanuatu	1											
Yemen												
COOPERATING N	ON CONTRA	CTING PA	RTIES									
Djibouti												
Senegal												
South Africa	<u> </u>											
Total	9,131	9,233	9,201	9,713	0	360	425	397	0.00%	3.90%	4.62%	4.09%

Key: TOTAL EFFORT (#FDAYS): Total number of days fished by tuna purse seiners, by fishing fleet and year, including:

• Total effort available (green font)

• Sampled effort available; raised to represent total catch of IOTC species (as in IOTC Nominal Catch database) (brown font)

• Effort not available; total effort estimated using the nominal catches available and catch rates from other fleets or year periods (red font)

APPENDIX D DRAFT OBSERVER REPORTING TEMPLATES

			Indi	ian Oce	an Tuna	Commi	ssion		
iotc ctoi				Trip i	nformat	ion - LL		Form Tri	p-LL
Trip number				•					
Observer and	deployment	details							
Observer Na	me				Employment	Organisatior	n name		
IOTC registra	tion No.				Employment	Organisatior	n Address		
Nationality									
Descuellas endest					Discustored		**		
Boarding dat		YYYY	hh			ion date and		hh	
DD	MM		hh	mm	DD	MM	YYYY	hh	mm
Boarding loca	ation				Disembarkat	ion location	I	1	
Port name	Latitude	(units)	Longitude	(units)	Port name	Latitude	(units)	Longitude	(units)
Remarks									
Vessel Detail		-							
Vessel Name		-	Flag				Gross Tonnag		
IOTC No. Radio Call Sig	n		Port of Regis Vessel Type	tration			Overall Lengt Fish storage		
	capacity (m ³)		Main Fishing	Gear			Tish storage (
Diastricezer		<u> </u>	I VIGITI TISTITIE	Gear	4				
Refrigeration	n methods ava	ilable onboa	rd			Т			
1						1			
2									
3						1			
4		-				4			
Fish storage i	method								
vessei Electr	onic equipme 1	2	3	4	5	6	7	8	9
Туре		2	3	4	3	0	/	0	3
Remarks:							I	I	
Trip Details									
Departure of	vessel from p	ort (date and	l time)		Arrival of ve	ssel at port (o	date and time)		
DD	MM	YYYY	hh	mm	DD	MM	YYYY	hh	mm
		YYYY	hh	mm			YYYY	hh	mm
Departure lo	cation	1			Arrival locati	on			
		YYYY (units)	hh Longitude	mm (units)			YYYY (units)	hh Longitude	mm (units)
Departure lo Port name	cation	1			Arrival locati	on			
Departure lo	cation	1			Arrival locati	on			
Departure lo Port name	cation	1			Arrival locati	on			
Departure lo Port name	cation	1			Arrival locati	on			
Departure loo Port name Remarks	Latitude	(units)	Longitude	(units)	Arrival locati Port name	on Latitude	(units)		
Departure loo Port name Remarks	Latitude	(units)	Longitude	(units)	Arrival locati Port name	on Latitude	(units)		
Departure lo Port name Remarks Date arrival o Date start fis Date end fish	cation Latitude on fishing grou hing hing	(units)	Longitude	(units)	Arrival locati Port name	on Latitude	(units)		
Departure lo Port name Remarks Date arrival o Date start fis Date end fish Date departu	cation Latitude on fishing grou hing ning re from fishin	(units)	Longitude	(units) MM	Arrival locati Port name	on Latitude	(units)		
Departure lo Port name Remarks Date arrival o Date start fis Date end fish	cation Latitude on fishing grou hing ning re from fishin	(units)	Longitude	(units)	Arrival locati Port name	on Latitude	(units)		
Departure lo Port name Remarks Date arrival o Date start fis Date end fish Date departu Total no. day	cation Latitude on fishing grou hing ning re from fishin s lost	(units)	DD DD	(units) MM reason	Arrival locati Port name	on Latitude	(units)		
Departure lo Port name Remarks Date arrival o Date start fis Date departu Total no. day	cation Latitude on fishing grou hing ing ire from fishin s lost rations/sets	(units)	DD DD Dt Details of sa	(units) MM reason	Arrival locati Port name	on Latitude	(units)		
Departure lo Port name Remarks Date arrival o Date start fis Date end fish Date departu Total no. day	cation Latitude on fishing grou hing ing ire from fishin s lost rations/sets	(units)	DD DD Dt Details of sa	(units) MM reason	Arrival locati Port name	on Latitude	(units)		
Departure lo Port name Remarks Date arrival o Date start fis Date departu Total no. day Total no.ope No. observeo	cation Latitude on fishing grou hing ing ire from fishin s lost rations/sets d operations	(units)	DD DD Dt Details of sa	(units) MM reason	Arrival locati Port name	on Latitude	(units)		
Departure lo Port name Remarks Date arrival o Date start fis Date departu Total no. day	cation Latitude on fishing grou hing hing re from fishin s lost rations/sets d operations	(units)	DD DD Dt Details of sa	(units) MM reason	YYYY	on Latitude	(units)		
Departure lo Port name Remarks Date arrival of Date start fis Date departu Total no. day Total no.ope No. observed	cation Latitude on fishing grou hing hing re from fishin s lost rations/sets d operations	(units)	DD DD Dt Details of sa	(units) MM reason mpling 100% of sets	Arrival locati Port name YYYYY	on Latitude	(units)		
Departure lo Port name Remarks Date arrival of Date start fis Date end fish Date departu Total no. day Total no.ope No. observeo Gear details Longline type	cation Latitude on fishing grou hing ning re from fishin s lost rations/sets d operations	(units)	DD DD Dt Details of sa	(units) MM reason mpling 100% of sets	Arrival locati Port name YYYYY	on Latitude	(units)		
Departure lo Port name Remarks Date arrival of Date start fis Date end fish Date departu Total no. day Total no.ope No. observed Gear details Longline type Line setter	cation Latitude on fishing grou hing ning re from fishin s lost rations/sets d operations	(units)	DD DD Dt Details of sa	(units) MM reason mpling 100% of sets Mainline m Mainline le	Arrival locati Port name	on Latitude	(units)		
Departure lo Port name Remarks Date arrival of Date start fis Date end fish Date departu Total no. day Total no. ope No. observed Gear details Longline type Line setter Bait casting n	cation Latitude Infishing group hing hing hing hing the from fishin s lost d operations d operations (LL) e hachine twice	(units)	DD DD Dt Details of sa	(units) MM reason mpling 100% of sets Mainline m Mainline le Line hauler	Arrival locati Port name	on Latitude	(units)		
Departure lo Port name Remarks Date arrival of Date start fis Date end fish Date departu Total no. day Total no. ope No. observed Gear details Longline type Line setter Bait casting n Bait hooked to Length shark	cation Latitude Infishing group hing hing hing hing the from fishin s lost d operations d operations (LL) e hachine twice	(units)	DD DD Dt Details of sa	(units) MM reason mpling 100% of sets Mainline m Mainline le Line hauler	Arrival locati Port name	on Latitude	(units)		
Departure lo Port name Remarks Date arrival of Date start fis Date end fish Date departu Total no. day Total no. ope No. observed Gear details Longline type Line setter Bait casting n Bait hooked to Length shark	cation Latitude on fishing grou hing ning the from fishin s lost trations/sets d operations (LL) e hachine twice lines (m)	(units)	Longitude DD DD DE Details of sa strategy (if <	(units) MM reason mpling 100% of sets Mainline m Mainline le Line hauler Length float	Arrival locati Port name	on Latitude	(units) (units) mm		
Departure lo Port name Remarks Date arrival of Date start fis Date end fish Date departu Total no. day Total no. day Total no. day Total no. observed No. observed Gear details Longline type Line setter Bait casting n Bait hooked fi Length shark	cation Latitude Infishing group hing hing hing the from fishing s lost d operations cut) e hachine twice lines (m)	(units)	Longitude Longitude DD DD DD Dt	MM reason mpling 100% of sets Mainline m Mainline le Line hauler Length float	Arrival locati Port name	on Latitude hh 	(units) mm i i i i i i i i i i i i i i i i i i		
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Departure lo Port name Remarks Date arrival of Date start fis Date end fish Date departu Total no. day Total no. ope No. observed Gear details Longline type Line setter Bait casting n Bait hooked fi Length shark	cation Latitude Infishing grouphing ing ire from fishin s lost rations/sets d operations (LL) e machine twice lines (m)	(units) (units	Longitude Longitude DD DD DD Dt	MM reason mpling 100% of sets Mainline m Mainline le Line hauler Length float	Arrival locati Port name	on Latitude hh 	(units) mm i i i i i i i i i i i i i i i i i i		
Departure lo Port name Remarks Date arrival of Date start fis Date end fish Date departu Total no. day Total no. day Total no. observed No. observed Gear details Longline type Line setter Bait casting n Bait hooked fi Length shark Tori line leng Streamer typ	cation Latitude on fishing grou hing ning the from fishin s lost rations/sets d operations (LL) e hachine twice lines (m) th e ing informatic	(units) (units	Longitude Longitude DD DD DD Dt	MM reason mpling 100% of sets Mainline m Mainline le Line hauler Length float	Arrival locati Port name	on Latitude hh 	(units) mm i i i i i i i i i i i i i i i i i i		
Departure lo Port name Remarks Date arrival of Date start fis Date end fish Date departu Total no. day Total no. day Total no. observed No. observed Gear details Longline type Line setter Bait casting in Bait hooked fi Length shark Tori line leng Streamer typ General haul Method of st	cation Latitude Infishing grou hing ning re from fishin s lost rations/sets d operations (LL) e hachine twice lines (m) th e ing informatic unning	(units) (units	Longitude Longitude DD DD DD Dt	MM reason mpling 100% of sets Mainline m Mainline le Line hauler Length float	Arrival locati Port name	on Latitude hh 	(units) mm i i i i i i i i i i i i i i i i i i		
Departure lo Port name Remarks Date arrival of Date start fis Date end fish Date departu Total no. day Total no. day Total no. observed No. observed Gear details Longline type Line setter Bait casting n Bait hooked fi Length shark Tori line leng Streamer typ	cation Latitude Infishing grou hing ning re from fishin s lost rations/sets d operations (LL) e hachine twice lines (m) th e ing informatic unning	(units) (units	Longitude Longitude DD DD DD Dt	MM reason mpling 100% of sets Mainline m Mainline le Line hauler Length float	Arrival locati Port name	on Latitude hh 	(units) mm i i i i i i i i i i i i i i i i i i		
Departure lo Port name Remarks Date arrival of Date start fis Date end fish Date departu Total no. day Total no. day Total no. observed No. observed Gear details Longline type Line setter Bait casting in Bait hooked fi Length shark Tori line leng Streamer typ General haul Method of st	cation Latitude Infishing grou hing ning re from fishin s lost rations/sets d operations (LL) e hachine twice lines (m) th e ing informatic unning	(units) (units	Longitude Longitude DD DD DD Dt	MM reason mpling 100% of sets Mainline m Mainline le Line hauler Length float	Arrival locati Port name	on Latitude hh 	(units) mm i i i i i i i i i i i i i i i i i i		
Departure lo Port name Remarks Date arrival of Date start fis Date end fish Date departu Total no. day Total no. day Total no. observed No. observed Gear details Longline type Line setter Bait casting n Bait hooked fi Length shark Tori line leng Streamer typ General haul Method of st Depredation	cation Latitude Infishing grou hing ning re from fishin s lost rations/sets d operations (LL) e hachine twice lines (m) th e ing informatic unning	(units) (units	Longitude Longitude DD DD DD Dt	MM reason mpling 100% of sets Mainline m Mainline le Line hauler Length float	Arrival locati Port name	on Latitude hh 	(units) mm i i i i i i i i i i i i i i i i i i		

Indian Ocean Tuna Commission Operation information - LL

IOTC operation/set number

Form OP-LL

Operation details (LL)									
Set start date a	nd time				Set start locati	ion			
DD	MM	YYYY	hh	mm	Latitude	(units)	Longitude		(units)
Target species									
Remarks									
	•								

Line setting		
Length mainline set	No. hooks between floats	Line setting speed (m/s)
No. floats set	No. hooks set	Line set type
Shallowest hook depth	No. light sticks	Branchline set interval (s)
Deepest hook depth	No. shark lines set	

Branchlines	Branchlines							
Material								
Diameter								
Length								
No. set								

Bait							
Туре							
Species							
Ratio							
Dye colour							

IOTC Trip number

Leaders								
Туре	А	В	С	D				
Material								
Diameter								
Length								
No. set								

Hooks		
Туре		
Number set		

Bycatch mitigation measures used							
Low light night setting		Operating south of 25 degrees S?					
No. Tori lines deployed		Underwater setting					
Branchline weighting (g)		Other bycatch mitigation measures used (e.g. offal management, bird cu	rtain etc)				
Distance weight from hook (cm)							

Haul												
Haul start date	and time				Haul start location							
DD	MM	YY	hh	mm	Latitude	(units)	Longitude		(units)			
Bird scaring dev	vice used durin	ig haul		No. retrieved	hooks observe	d						
				No. hooks ret	rieved							

Leader type	А	В	С	D
No. bite-off per leader type				

Sampling details

tc ctoi						Commi																								
ctoi			(Catch ir	nforma	tion - L	L		Form CA-	LL	l																			
rm ID		Catch deta	ils																								(Discards only	()		
	IOTC operation/s et number	Species code		code (pre-	(pre-	Weight code (post- processing)	(post-		Length (pre- processing)	Length code (post- processing)	Length (post- processing	Sex	Maturity stage	Sample collected	Scar I	Dep		Bait ype	Branchline details	Leader type	Hooking location		Tag recovery		Tag type	Tag finder	Condition 1 (time of first sighting)		Release details	Comme
_																														
arks				1	1	1		1	1	1		1	1	1			I I		1		1	1	1	1	1	1		1	1	1

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				Trin in	formati	ion - PS		Form Tri	n-PS
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Trip number	d deployment	dotaile							
Observer an		details			Employmon	t Organisatio	n namo	-	
IOTC registra						t Organisatio			
Nationality					Linpioymen	t organisatio	1171001055		
Boarding dat	e and time				Disembarkat	tion date and	time		
DD	MM	YYYY	hh	mm	DD	MM	YYYY	hh	mm
Boarding loc	ation		-		Disembarka	tion location	-		
Port name	Latitude	(units)	Longitude	(units)	Port name	Latitude	(units)	Longitude	(units)
Remarks									
Vessel Detai	1.								
Vessel Detai	-		Flag		1		Cross Tonn		
IOTC No.	2		Flag Port of Regis	tration			Gross Tonn Overall Ler		
Radio Call Si	gn		Vessel Type	stration				e capacity (m ³)
	capacity (m³)		Main Fishing	Gear			11311 Storug	e capacity (iii	/
Blust Heezel			i viain i i sinna						
Refrigeratio	n methods ava	ailable onboar	ď			1			
1			-						
2						_			
3									
4									
Fish storage	method								
Vessel Elect	ronic equipme	1	-	I .	-		T -		T
_	1	2	3	4	5	6	7	8	9
Туре									
Remarks:									
Trip Dotails									
Trip Details	f vessel from r	ort (date and	time)		Arrival of ve	ssel at port (date and tim	ما	
Departure of	f vessel from p		1	mm		ssel at port (Imm
	f vessel from p	oort (date and YYYY	time) hh	mm	Arrival of ve DD	ssel at port (MM	date and tim	e) hh	mm
Departure of	MM		1	mm		MM			mm
Departure of DD	MM		1	mm (units)	DD	MM			mm (units)
Departure of DD Departure lo	MM	ΥΥΥΥ	hh		DD Arrival locat	MM	ΥΥΥΥ	hh	
Departure of DD Departure lo	MM	ΥΥΥΥ	hh		DD Arrival locat	MM	ΥΥΥΥ	hh	
Departure of DD Departure lo Port name	MM	ΥΥΥΥ	hh		DD Arrival locat	MM	ΥΥΥΥ	hh	
Departure of DD Departure lo Port name	MM	ΥΥΥΥ	hh		DD Arrival locat Port name	MM	ΥΥΥΥ	hh	
Departure of DD Departure lo Port name Remarks	MM cation Latitude	YYYY (units)	hh		DD Arrival locat	MM	ΥΥΥΥ	hh	
Departure of DD Departure lo Port name Remarks Date arrival	MM cation Latitude	YYYY (units)	hh Longitude	(units)	DD Arrival locat Port name	MM ion Latitude	YYYY (units)	hh	
Departure of DD Departure lo Port name Remarks Date arrival Date start fis	MM cation Latitude on fishing grou	YYYY (units)	hh Longitude	(units)	DD Arrival locat Port name	MM ion Latitude	YYYY (units)	hh	
Departure of DD Departure lo Port name Remarks Date arrival Date start fis Date end fisl	MM cation Latitude on fishing grou shing	YYYY (units) unds	hh Longitude	(units)	DD Arrival locat Port name	MM ion Latitude	YYYY (units)	hh	
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Departure of DD Departure lo Port name Remarks Date arrival Date start fis Date end fisl	MM cation Latitude on fishing grou hing hing ure from fishir	YYYY (units) unds	hh Longitude	(units)	DD Arrival locat Port name	MM ion Latitude	YYYY (units)	hh	
Departure of DD Departure lo Port name Remarks Date arrival of Date start fis Date end fis Date departo Total no. day	MM cation Latitude on fishing grou shing hing ure from fishir rs lost	YYYY (units) unds	hh Longitude DD	(units) MM reason	DD Arrival locat Port name	MM ion Latitude	YYYY (units)	hh	
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Departure of DD Departure lo Port name Remarks Date arrival of Date start fis Date end fish Date departo Total no. day	MM cation Latitude con fishing grou shing ure from fishir rs lost crations/sets d operations	YYYY (units) unds	hh Longitude DD DD Details of sa strategy (if <	(units) MM reason mpling c100% of sets	DD Arrival locat Port name	MM ion Latitude	YYYY (units)	hh	
Departure of DD Departure lo Port name Remarks Date arrival of Date start fis Date departo Total no. day	MM cation Latitude con fishing grou shing ure from fishir rs lost crations/sets d operations ployed	YYYY (units) unds	hh Longitude DD DD Details of sa	(units) MM reason mpling c100% of sets	DD Arrival locat Port name	MM ion Latitude	YYYY (units)	hh	
Departure of DD Departure lo Port name Remarks Date arrival of Date start fis Date departu Total no. day Total no. ope No. observe No. FADs de	MM cation Latitude con fishing grou shing ure from fishir rs lost crations/sets d operations ployed	YYYY (units) unds	hh Longitude DD DD Details of sa strategy (if <	(units) MM reason mpling c100% of sets	DD Arrival locat Port name	MM ion Latitude	YYYY (units)	hh	
Departure of DD Departure lo Port name Remarks Date arrival of Date start fis Date departu Total no. day Total no. ope No. observe No. FADs de	MM cation Latitude on fishing grou shing ure from fishing rations/sets d operations ployed restigated	YYYY (units) unds	hh Longitude DD DD Details of sa strategy (if <	(units) MM reason mpling c100% of sets	DD Arrival locat Port name	MM ion Latitude	YYYY (units)	hh	
Departure of DD Departure lo Port name Remarks Date arrival of Date arrival of Date start fis Date end fis Date departu Total no. day Total no.ope No. FADs de No. FADS inv	MM cation Latitude on fishing grou shing ure from fishing rations/sets d operations ployed restigated	YYYY (units) unds	hh Longitude DD DD Details of sa strategy (if <	(units) MM reason mpling c100% of sets	DD Arrival locat Port name	MM ion Latitude	YYYY (units)	hh	
Departure of DD Departure lo Port name Remarks Date arrival of Date arrival of Date arrival of Date end fisl Date departu Total no. ope No. observe No. FADs de No. FADS inv Gear details	MM cation Latitude on fishing grou shing ure from fishing rations/sets d operations ployed restigated	YYYY (units) unds	hh Longitude DD DD Details of sa strategy (if <	(units) MM reason mpling c100% of sets	DD Arrival locat Port name	MM ion Latitude	YYYY (units) mm	hh	
Departure of DD Departure lo Port name Remarks Date arrival of Date arrival of No. FADs de No. FADS inv Gear details Net Max. length Brail size	MM cation Latitude on fishing grou shing ure from fishin rs lost crations/sets d operations ployed restigated (PS)	YYYY (units) (units) unds g grounds	hh Longitude DD DD Details of sa strategy (if <	(units) MM reason reason	DD Arrival locat Port name YYYYY	MM Latitude	YYYY (units) mm	hh	
Departure of DD Departure lo Port name Remarks Date arrival of Date arrival of No. FADs de No. FADS inv Gear details Net Max. length Brail size	MM cation Latitude on fishing grou shing ure from fishing rations/sets d operations ployed restigated	YYYY (units) (units) unds g grounds	hh Longitude DD DD Details of sa strategy (if <	(units) MM reason reason mpling c100% of sets red) No. strips	DD Arrival locat Port name YYYYY	MM Latitude	YYYY (units) mm	hh	
Departure of DD Departure lo Port name Remarks Date arrival of Date arrival of No. FADs de No. FADS inv Gear details Net Max. length Brail size	MM cation Latitude on fishing grou shing ure from fishin rs lost crations/sets d operations ployed restigated (PS)	YYYY (units) (units) unds g grounds	hh Longitude DD DD Details of sa strategy (if <	(units) MM reason reason mpling 100% of sets red) No. strips Power block	DD Arrival locat Port name YYYYY	MM Latitude	YYYY (units) mm	hh	
Departure of DD Departure lo Port name Remarks Date arrival of Date arrival of No. FADs de No. FADS inv Gear details Net Max. length Brail size	MM cation Latitude on fishing grou hing ure from fishin vs lost cations/sets d operations ployed vestigated (PS) resence of est	YYYY (units) (units) unds g grounds	hh Longitude DD DD Details of sa strategy (if <	(units) MM reason reason mpling 100% of sets red) No. strips Power block	DD Arrival locat Port name YYYYY	MM Latitude	YYYY (units) mm	hh	
Departure of DD Departure lo Port name Remarks Date arrival Date arrival Date start fis Date end fish Date departu Total no. day Total no. ope No. FADS de No. FADS inv Gear details Net Max. length Brail size Other (e.g. p	MM cation Latitude on fishing grou hing ure from fishin vs lost cations/sets d operations ployed vestigated (PS) resence of est	YYYY (units) (units) unds g grounds	hh Longitude DD DD Details of sa strategy (if <	(units) MM reason reason mpling 100% of sets red) No. strips Power block	DD Arrival locat Port name YYYYY	MM Latitude	YYYY (units) mm	hh	

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IOTC Trip Set numb		-		-								
	per n details (F))										
	and time (s		cot)				1	Set locati	00			
DD	MM		selj	[hh	mm	+	Latitude		Longitude		(units)
00							4	Latitude	(units)	Longitud	-	(units)
School as	sociation			<u>}</u>			1					
Sampling	details											
Sampling												
Species s	ampled											
Remarks												
Cotob dod	halla.									Consulting		
Catch det	-	Lata	Number	Woight.	Maight	(Discards onl Condition 1	y) Condition 2	Deleges	Commonte	Sampling	-	
Brail number	Species code	Fate	Number	code	(kg)	(time of first sighting)		Release details	Comments	Brail number	Total catch	Sampled catch
		1								1		
										2		
										3		
										4		
										5		
			_							6		_
		_								7		
		-								8		_
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Remarks	1 I							4				

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				Biologi	cal sam	ple - PS		Form Bio	-PS									
IOTC Trip n																		
Set numbe	r			1														
Sampling d	etails																	
										•					_			
Catch detai Species code	Number	Weight code (pre- processing)	Weight (pre- processing)	Weight code (post- processing)	Weight (post- processing)	Length code (pre- processing)	processing)	Length code (post- processing)	Length (post- processing)	Sex	Maturity stage	Sample collected	Scar	Tag release	Tag recovery	Tag no.	Tag type	Tag finder
																		
Remarks	J																	



Indian Ocean Tuna Commission

Trip information - PL

Form Trip-PL

inp namoer				
Observer and o	deployment de	etails		
Observer Nam	e		Employment Organisation name	
IOTC registration	on No.		Employment Organisation Address	
Nationality				

Boarding date	e and time				Disembarkation date and time								
DD	MM	YYYY	hh	mm	DD	MM	YYYY	hh	mm				
Boarding loca	tion				Disembarkation location								
Port name	Latitude	(units)	Longitude	(units)	Port name	Latitude	(units)	Longitude	(units)				
Remarks													
		-											

Vessel Details	Vessel Details										
Vessel Name	Flag	Gross Tonnage (GT)									
IOTC No.	Port of Registration	Overall Length (m)									
Radio Call Sign	Vessel Type	Fish storage capacity (m ³)									
Blast freezer capacity (m ³)	Main Fishing Gear										

Refrigeration	Refrigeration methods available onboard											
1												
2												
3												
4												
Fish storage m	ethod											

Vessel Electronic equipment												
	1	2	3	4	5	6	7	8	9			
Туре												
Remarks:												

Trip Details									
Departure o	f vessel from p	port (date and	time)		Arrival of ve	essel at port	: (date and t	ime)	
DD	MM	YYYY	hh	mm	DD	MM	YYYY	hh	mm
Departure lo	cation				Arrival locat	tion			
Port name	Latitude	(units)	Longitude	(units)	Port name	Latitude	(units)	Longitude	(units)
	_								
Remarks									
-									
				I		1		_	
			DD	MM	YYYY	hh	mm		
	on fishing grou	unds							
Date start fis	hing								
Date end fis	ning								
Date depart	ure from fishir	ng grounds							
Total no. day	vs lost			reason			·		
Total no.ope	rations/sets		Details of sa	mpling					
No. observe	d operations			100% of sets					
No. FADs de	ployed		were observ						
No. FADS inv	vestigated		were observ	eu)					
No. days bai	t fishing								
Gear details	(PL/HL)								
N.4				-	-				-

Max. no. operational poles (automatic)	
Max. no. operational poles (manual)	
Total volume of bait tanks	

Remarks

Indian Ocean Tuna Commission	
Operation information - PL	

Form OP-PL

IOTC Trip number IOTC Operation number

Set date a	nd time (start of	set)			Set start lo	cation		
DD	MM	YYYY	hh	mm	Latitude	(units)	Longitude	(units)
						•	•	
School as	sociation			Target spe	cies			
No. manu	al poles used			No. hooks	lost			
No. auto p	oles used			No. lines o	bserved			
Sampling	details							
		_						
			Hooks					
Bait Type			Hooks Type					
Bait							-	

Remarks

iote etoi	Indian Ocean Tuna Commission Catch information - PL Form CA-PL	
Form ID	Catch details	(Discards only)

IOTC Trip number	operation/s et number	Species code	Fate	weight code (pre- processing)	weight (pre- processing)	(post- processing)	Weight (post processing)	(pre- processing)	Length (pre- processing)	Length code (post- processing)	Length (post- processing)	Sex	Maturity stage	Sample collected	Scar	Hook type	Bait type	Branchline material	Leader type	Hooking location	Tag release	Tag recovery	Tag no.	Tag type	Tag finder	Condition 1 (time of first sighting)	Condition 2 (time of release)	Release details	Comments
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Remarks																													

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		Ind		an Tuna				
iotc ctoi	1		Trip ir	nformati	on - GN		Form Tri	p-GN
Trip number								
Observer and deployment	details	_		1- 1			1	
Observer Name IOTC registration No.					t Organisation t Organisation			
Nationality				Employmen	Congainsation	Address		
Boarding date and time				Disembarkat	tion date and t	time		
DD MM	YYYY	hh	mm	DD	MM	YYYY	hh	mm
Boarding location	1	1			tion location	<u> </u>	1	- I
Port name Latitude	(units)	Longitude	(units)	Port name	Latitude	(units)	Longitude	(units)
Demortes								
Remarks								
Vessel Details								
Vessel Name		Flag				Gross Tonnag	ge (GT)	
IOTC No.		Port of Regis	tration			Overall Leng		
Radio Call Sign		Vessel Type				Fish storage	capacity (m³)	
Blast freezer capacity (m³)		Main Fishing	Gear					
					-			
Refrigeration methods ava	ilable onboar	d						
1					-			
3					-			
4								
Fish storage method								
Vessel Electronic equipme	nt	-	-	-	-			
1	2	3	4	5	6	7	8	9
Туре								
Remarks:								
Trin Deteile								
Trip Details	ort (date and	time)		Arrival of ve	ssel at nort (d	ate and time)		
Departure of vessel from p	-		mm		ssel at port (d		hh	Imm
	oort (date and YYYY	time) hh	mm	Arrival of ve DD	ssel at port (d	ate and time) YYYY	hh	mm
Departure of vessel from p	-		mm		MM		hh	mm
Departure of vessel from p DD MM	YYYY			DD Arrival locat	MM	YYYY		
Departure of vessel from p DD MM Departure location	YYYY	hh		DD Arrival locat	MM	YYYY		
Departure of vessel from p DD MM Departure location	YYYY	hh		DD Arrival locat	MM	YYYY		
Departure of vessel from p DD MM Departure location Port name Latitude	YYYY	hh		DD Arrival locat	MM	YYYY		
Departure of vessel from p DD MM Departure location Port name Latitude	YYYY	hh Longitude	(units)	DD Arrival locat Port name	MM ion Latitude	YYYY (units)		
Departure of vessel from p DD MM Departure location Port name Latitude Remarks	YYYY (units)	hh		DD Arrival locat	MM	YYYY		
Departure of vessel from p DD MM Departure location Port name Latitude Remarks Date arrival on fishing grou	YYYY (units)	hh Longitude	(units)	DD Arrival locat Port name	MM ion Latitude	YYYY (units)		
Departure of vessel from p DD MM Departure location Port name Latitude Remarks Date arrival on fishing grou Date start fishing	YYYY (units)	hh Longitude	(units)	DD Arrival locat Port name	MM ion Latitude	YYYY (units)		
Departure of vessel from p DD MM Departure location Port name Latitude Remarks Date arrival on fishing grou Date start fishing Date end fishing	YYYY (units) unds	hh Longitude	(units)	DD Arrival locat Port name	MM ion Latitude	YYYY (units)		
Departure of vessel from p DD MM Departure location Port name Latitude Remarks Date arrival on fishing grou Date start fishing	YYYY (units) unds	hh Longitude	(units)	DD Arrival locat Port name	MM ion Latitude	YYYY (units)		
Departure of vessel from p DD MM Departure location Port name Latitude Remarks Date arrival on fishing grou Date start fishing Date end fishing Date departure from fishin	YYYY (units) unds	hh Longitude DD	(units) MM 	DD Arrival locat Port name	MM ion Latitude	YYYY (units)		
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Indian Ocean Tuna Commission
Operation information - GN

Form OP-GN

IOTC Trip number IOTC Operation number

Operation	details (GN)													
Set start d	ate and time				Haul start date and time									
DD	MM	YYYY	hh	mm	DD	MM	YYYY	hh	mm					
Set start lo	ocation				Haul start l	ocation								
Latitude	(units)	Longitude		(units)	Latitude	(units)	Longitude	õ	(units)					
Remarks				·	-				•					

Net details	_	
Set type	Hanging ratio	
Vertical set	No. panels set	
Net type (code from Trip form)	No. panels retrieved	
No. weights used	No. panels observed	
Net configuration		

Sampling details

Remarks

*	Indian Ocean Tuna Commission
iotc ctoi	Catch information - GN Form CA-GN

Form ID		Catch deta		_								_											(Discards on			
IOTC Trip		Species	Fate	Weight code	Weight (pre	Weight	Weight	Length code	Length (pre-	Length code	Length	Mesh size	Method of Sex	Maturity		Scar	Dep	Tag release	Tag recovery	Tag no.	Tag type	Tag finder		Condition 2		Comments
number	operati	ion/s code		(pre-	processing)	code (post-	(post-	(pre-	processing)	(post-	(post-		capture	stage	collected			release					(time of	(time of	details	
	et num	ber		processing)		processing)	processing)	processing)		processing)	processing)												first	release)		
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Remarks	l																									

Note:

Blue data fields indicates the subsample of fish for which biological measurements are taken; Green data fields indicate optional items to be entered where possible