



IOTC REGIONAL OBSERVER SCHEME LONGLINE FISHING EVENT – CATCH DETAILS

FORM 4-LL

Page _____ of _____.

Revised September 2021

Observer name:	Observed trip number:	Fishing event number:
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CATCH DETAILS to be recorded for all specimens observed, including depredated, non-target and SSI specimens. Use codes provided in form notes to fill in data collection fields.

	SPECIES AND FATE		DEPREDATION DETAILS		ADDITIONAL DETAILS ON NON-TARGET SPP.		ADDITIONAL CATCH DETAILS ON SPECIES OF SPECIAL INTEREST (SSIs) <small>(Whale sharks, oceanic white tip sharks, thresher sharks, striped marlin, black marlin, blue marlin and Indo-Pacific sailfish, marine turtles, marine mammals and seabirds)</small>											
Catch #	1. Spp.	2. Fate	3. Depredat. source	4. Predator observed	5. Condition at capture	6. Condition at release	7. Gear interaction	8. Hook type	9. Bait type	10. Leader material	11. Leader diameter	12. De-hooker / line cutter	13. Brought on board?	14. Landing method	15. Revived (turtles only)?	16. Photo ID		
													Y	N		Y	N	
													Y	N		Y	N	
													Y	N		Y	N	
													Y	N		Y	N	
													Y	N		Y	N	
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													Y	N		Y	N	
													Y	N		Y	N	
													Y	N		Y	N	
													Y	N		Y	N	

TAG DETAILS to be recorded for every tagged specimen

Catch #	17. Tag release?		18. Tag recovery?		19. Tag type	20. Tag number 1	21. Tag number 2	22. Tag finder full name	23. Tag finder contact
	Y	N	Y	N					

ROS minimum standard data-fields are highlighted in the form and in these notes in light grey. These are to be collected and reported to IOTC.

PAGE OF: Number Form LL-4's through trip as page 1, 2, 3 etc. At end of trip, check all pages and put last page number on every page.

FISHING EVENT NUMBER: Refer to the parent set number as specified in Form 3-LL (e.g.: 0001, 0002, ..., 0034, etc.).

CATCH DETAILS: to be recorded per specimen for all specimens observed, including depredated, non-target and SSI specimens.

CATCH NUMBER (#): Record catch detail consecutive number. This will be the four-digit numerical code beginning at 0001 allocated to each specimen observed. Use as many Form-4 pages needed to record all specimens observed during the set.

SPECIES AND FATE

1. **SPECIES:** FAO spp. 3-alpha code for each of the species caught during the observed set.

2. **FATE:** Fill in a new row for every different fate given to a same species. Use codes provided in Table 1 to specify species fates.

DEPREDATION DETAILS

3. **DEPREDATION SOURCE:** Select the depredation source(s) code(s) based on the code description given in the Table 2.

4. **PREDATOR OBSERVED:** Record the predator species directly observed and identified (FAO spp. 3-alpha code). If not observed record UNK (unknown). *Species observed in the area may not necessarily be associated with predation unless directly observed.*

ADDITIONAL DETAILS ON NON-TARGET SPECIES

5. **CONDITION AT CAPTURE:** Describe specimen health status at capture by selecting the most suitable code from Table 3.

6. **CONDITION AT RELEASE:** Describe specimen health status at release by selecting the most suitable code from Table 3. For non-target specimens retained on-board record not applicable (NA).

ADDITIONAL CATCH DETAILS ON SPECIES OF SPECIAL INTEREST (SSIs) (*Whale sharks, oceanic white tip sharks, thresher sharks, striped marlin, black marlin, blue marlin and Indo-Pacific sailfish, marine turtles, marine mammals and seabirds*)

7. **GEAR INTERACTION:** Specify the type of interaction of the SSI specimen with the primary gear or vessel using codes provided in Table 4. Make sure to use the code(s) that best describe the situation.

8. **HOOK TYPE:** Information on hook type to be collected only for the branchline where an SSI specimen has been caught. To be described as in Form 3-LL: "Set and haul information".

9. **BAIT TYPE:** Information on bait type to be collected only for the branchline where an SSI specimen has been caught. To be described as in Form 3-LL: "Set and haul information".

10. **LEADER MATERIAL:** Information on leader material to be collected only for the branchline where an SSI specimen has been caught. To be described as in the Form 2-LL: "Gear specifications".

11. **LEADER DIAMETER:** Information on leader diameter (in mm) to be collected only for the branchline where an SSI specimen has been caught. To be described as in the Form 2-LL: "Gear specifications".

12. **DE-HOOKER / LINE CUTTER:** De-hooking/line cutting device used to release an SSI caught in the gear. Use codes from Table 5.

13. **BROUGHT ON BOARD:** Indicate YES or NO if the SSI specimen caught in the gear was brought on board the vessel.

14. **LANDING METHOD:** Specify how the SSI was brought on-board by choosing the most adapted landing method from Table 6.

15. **REVIVED (for turtles):** Indicate "Yes" if the release took place following the application of turtle revival procedures and No if not. *A turtle is determined to be dead if the muscles are stiff (rigor mortis) and/or the flesh has begun to rot. Otherwise, the turtle is considered comatose or inactive and revival attempts are necessary.*

16. **PHOTO ID:** If a photo is taken, record photo number / code. Make sure to follow basic rules for the photographing of specimens: 1) Photograph whole animals individually; 2) Include an object in the photograph to indicate the scale; 3) Photograph unusual marks; 4) Photograph the location of the interaction (preferably with the fishing gear still attached) and identification characteristics.

TAG DETAILS *Under Catch # record consecutive number allocated in the previous table to this particular specimen.*

17. **TAG RELEASE?** Indicate YES or NO, whether this individual was re-released with the tag(s) still attached.

19. **TAG TYPE:** Specify the type of tag observed using the codes provided in Table 7.

22 & 23. **TAG FINDER NAME and CONTACT DETAILS:** Record full name of the person who recovered the tag and its contact details including physical address, phone number and email address.

TABLE 1 - FATE		DFR	Discarded - trunk - fins retained
DTS	Discarded - too small.	DTR	Discarded - trunk retained, fins discarded
DUS	Discarded - unwanted species	RCC	Retained - crew consumption
DRB	Discarded – flag state retention ban	RFL	Retained - for landing / sold
DFL	Discarded - vessel fully loaded	RFR	Retained trunk and fins
DUD	Discarded – IOTC retention ban	RFT	Retained for at-sea-transshipment
DPQ	Discarded – unfit for consumption	RET	Retained
DDL	Discarded - too difficult to land	UNK	Unknown fate

TABLE 2. DEPREDATION SOURCE			
SH	Shark	BA	Depredation on bait
TW	Toothed whales	SQ	Squid
SW	Sharks/toothed whales	SB	Birds
MM	Marine mammal	OT	Other (specify)
CC	Cookie-cutter shark	UNK	Unknown

TABLE 3. CONDITION AT CAPTURE AND AT RELEASE					
A0	Alive - condition unknown	A2	Alive - injured, distressed	D	Dead
A1	Alive - active, healthy	A3	Alive - very weak, dying	U	Unknown

TABLE 4. TYPE OF INTERACTION OF THE SSI SPECIMEN WITH THE GEAR			
HB	Hooked in the beak or mouth	HO	Any other external location
HR	Hooked in the rostrum (billfish only)	EN	Entangled in the net
HJ	Hooked in the fish/shark jaw (jaw hinge, lower / upper jaw).	EL	Entangled in the line
HL	Hooked in the fish/shark lip	EF	Entangled with FAD
HG	Hooked in the gills / gill plate / gill slits.	EG	Entangled in ghost fishing gear
HI	Hooked in the throat (including gullet)	OT	Other (describe)
HT	Hooked in the gut (internal)	UK	Unknown

TABLE 5. DE-HOOKER / LINE CUTTER			
LC	Line cutter	HD	Hook disgorging
WC	Rebar wire cutter	KN	Knife

TABLE 6. LANDING METHOD			
HD	By hand	SN	Using a scoop net
GR	Using the gear	ON	Using another net
GF	Using a gaff	OT	Another (describe)

TABLE 7 - TYPE OF TAGS	
TC	Conventional (plastic spaghetti tags inserted through fish first dorsal fin)
TR	Rototags (a two-piece plastic tag inserted through fish first dorsal fin)
TS	Sonic tags (implanted in the body cavity).
TP	Pop-up tags (inserted into the dorsal musculature).
TI	Internal archival tags (implanted in the body cavity).
TT	Smart Position/ Temperature Transmitting tags (attached to the dorsal fin)
MB	Metal leg band tag (seabirds)
MT	Metal tag (turtles - a different tag number for each flipper - right & left).
ST	External satellite tag (placed in turtle / bird back).

18. **TAG RECOVERY?** Indicate YES (Y) or NO (N), whether a tag was recovered;

20. & 21 **TAG No. 1 & 2:** Provide tag number. If a turtle, provide both tag numbers.