IOTC REGIONAL OBSERVER SCHEME
LONGLINE FISHING EVENT

FORM 3– LL (pg. 1)

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Revised September 2021

Observer Name:	Observed trip No:	Fishing event number:

SETTING OPERATIONS collect all dates and times UTC and positions as dd°mm'ss". Circle units used.

1. Start setting date and time — DD MM YYYY hh mm
2. Start setting position specify quadrant (circle) — LATITUDE S N — LONGITUDE E W
3. End setting date and time — DD MM YYYY hh mm
4. End setting position specify quadrant (circle) — LATITUDE S N — LONGITUDE E W

5. Vessel speed	knots	6. Line setter speed	m/s cm/s	7. Length of mainline set	Km nm
8. Branchline clip-on-time	seconds	9. Buoys clip-on-time	seconds		
10. Total No. of hooks set		11. Total No. floats set		12. No. hooks set between floats	
13. Distance between branchlines	m ft	14. Floatline length(s)	m ft	15. Total No. radio/dhan buoys set	

16. Attached lights (No. of lights attached to the gear per type and colour)

TYPE OF LIGHT	COLOUR (of light-emitting source)				
	Number of yellow lights	Number of red lights	Number of green lights	Number of blue lights	Number of other colour lights
Chemical light sticks					
Electric lights					
Luminescent lights					
Other					

19. Shark lines set (circle) Yes No		20. Number of shark lines set	
21. Target species (FAO code)		22. VMS on Yes No	

MITIGATION MEASURES circle the correct answer(s) where needed

23.No. of tori-lines deployed		24. Minimum deck lighting used	Yes No	25. Hooks set between dusk & dawn	Yes No
26. Branchline weighted	Yes No	27. Sinker average weight	g	28. % Branchline weighted	%
29. Hook-sinker distance	cm	30. Underwater setting	Yes No	31. Other mitigation measures used	

32. Branchlines set (*to be filled in in accordance to Form 2-LL*)

Branchline configuration number	# 1	# 2	# 3	# 4	# 5	# 6	# 7
Number of branchlines set							

33. Hook type	# 1	# 2	# 3	# 4	# 5	# 6	# 7
Type							
% Hooks set by type							
Variations in hook type							

34. Bait	# 1	# 2	# 3	# 4	# 5	# 6	# 7
Type							
Species							
Ratio (%)							
Dye colour							

HAULING OPERATIONS collect all dates and times in UTC and positions as dd°mm'ss". Circle units used.

35. Start hauling date and time					35. Start hauling position specify quadrant (circle)				
DD	MM	YYYY	hh	mm	LATITUDE	S	N	LONGITUDE	E	W

36. End hauling date and time					37. End hauling position specify quadrant (circle)				
DD	MM	YYYY	hh	mm	LATITUDE	S	N	LONGITUDE	E	W

38. Offal management (circle)	Batch	Ad hoc	39. Position of offal disposal (circle)	Aft / Bow / Forward	Port	Starboard	Stern

40. Method(s) to stun fish (circle)	CO_2	ELC	PS	SP	41. Bird scaring device at hauler (circle)	Yes	No

42. Number of bite-offs by branchline type (to be filled in accordance to Form 2-LL)

Branchline configuration number	# 1	# 2	# 3	# 4	# 5	# 6	# 7
Number of bite-offs							

43. Number of retrieved hooks observed		44. Sampling protocol (see notes)	

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Notes on FORM 3–LL

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

SETTING OPERATIONS setting starts when the 1st dhan buoy and/or radio buoy is deployed. Set ends when the last dhan buoy and/or radio buoy is deployed.

7. LENGTH OF MAINLINE SET: Calculate the total deployed length of the mainline for the specific set

1. Multiply the time (t in "s") that took to set the line-by-line setter average speed (S avg. in m/s).
2. Take into account any interruption times.
3. Convert the result found from meters to kilometres
4. Crosscheck calculations against information provided.by the captain.

10. TOTAL NUMBER HOOKS SET: Calculate the total number of hooks deployed for the set using one of the processes described:

1. Multiply No of baskets / tubs / reels by the average No of hooks per basket / tub / reel to determine the No of hooks set, or
2. Divide total length of line set by spacing between branch lines to determine the number of hooks set
3. Crosscheck calculations against information provided.by the captain

MITIGATION MEASURES

An observer can consider that a vessel as conducted NIGHT SETTING WITH MINIMUM DECK LIGHTING as per described in IOTC RES 12/06 only if all hooks have been set between nautical dusk and nautical dawn and vessel deck light has been kept to a minimum during setting

24. MINIMUM DECK LIGHTING USED: Indicate YES or NO, by circling the right answer, whether night setting took place with minimum deck lighting.

25. HOOKS SET BETWEEN DUSK & DAWN: Indicate YES or NO, whether all hooks have been set between nautical dusk and nautical dawn as set out in the Nautical Almanac tables for relevant latitude, local time and date.

31. OTHER MITIGATION MEASURES USED: Indicate any other depredation / mitigation device/s used during the observed set using the codes provided.

33. HOOK TYPE: For each kind of hook set, record hook type (using codes provided), the ratio (%) in the observed set and provide details on hook variations. This is if the hook is offset, made of stainless steel, with a ring, or if its round instead of regular (only for Japanese hooks).

34. BAIT: For each bait used record bait type (using codes provided), species, ratio (%) used and dye colour (e.g.: blue). If none, write NONE.

40. METHOD(S) TO STUN FISH: Circle codes provided (see table below) to indicate method(s) used during the observed set to stun fish.

43. NUMBER OF RETRIEVED HOOKS OBSERVED: Record the number of hooks observed for catch composition during *'line hauling observation periods'*.

HAULING OPERATIONS

44. SAMPLING PROTOCOL: Indicate the sampling protocol followed during the observed set for the estimation of catch per species.

Exhaustive Sampling: The totality of the hooks hauled are observed.

Random sampling: Hooks to be observed are sampled randomly (e.g.: batch of 10 hooks selected at random, or all hooks observed for a period of 10 min)

Systematic sampling: A proportion (%) of the line is observed (e.g.: batch of 10 hooks selected at every 100 hooks or all hooks sampled for a period of 10 min/hour).

Exhaustive When Present: The observer monitors the totality of hooks except when, for practical reasons, the observer is not present (e.g.: break for meals/rest).

CODES DEPREDATION / MITIGATION DEVICES			
AAD	Active Acoustic Deterrents	**OTH**	Other (specify)
ACD	Acoustic decoys.	**OVM**	Other Visual Methods.
AWM	Above Water Methods	**PAD**	Passive Acoustic Deterrents
LIS	Light-sticks	**SPD**	"Spiders" or "Socks"
LIG	Lights of different colour	**VID**	Visual decoys or deterrents
NON	None	**UNK**	Unknown

CODES HOOK TYPE			
C11	Circle hooks 11/0	**H42**	Japan tuna hooks 4.2
C12	Circle hooks 12/0	**J08**	J Hooks 8/0
C13	Circle hooks 13/0	**J09**	J Hooks 9/0
C14	Circle hooks 14/0	**J10**	J Hooks 10/0
C15	Circle hooks 15/0	**J12**	J Hooks 12/0
C16	Circle hooks 16/0	**S01**	Spanish hooks 1
C18	Circle hooks 18/0	**S02**	Spanish hooks 2
H32	Japan tuna hooks 3.2	**S03**	Spanish hooks 3
H34	Japan tuna hooks 3.4	**S04**	Spanish hooks 4
H36	Japan tuna hooks 3.6	**T32**	Teracima hooks 3.2 sun
H38	Japan tuna hooks 3.8	**T34**	Teracima hooks 3.4 sun
H40	Japan tuna hooks 4.0	**T36**	Teracima hooks 3.6 sun
		T38	Teracima hooks 3.8 sun

CODES BAIT TYPE/CONDITION			
FRC	Frozen/chopped	**FRW**	Frozen/whole
THC	Thawed/chopped	**THW**	Thawed/whole
		BOT	Other

CODES METHODS TO STUN FISH			
CO2	Carbon dioxide narcosis	**SP**	Spiking
PS	Percussive stunning	**ELC**	Electrocution

*Further details and explanations can be found in the *IOTC Guidelines for Observers on-board Drifting Longliners.*