

**SPC/FFA REGIONAL LONGLINE OBSERVER
CATCH MONITORING**

FORM LL-4

REVISED 2018

OBSERVER NAME		OBSERVER TRIP ID NUMBER			SET No.		PAGE OF			
VESSEL NAME		MEASURING DEVICE	CALLIBRATE + / - mm	SHIP'S START OF SET DATE AND TIME				START OF HAUL DATE		
				Y Y	M M	D D	h h	m m	Y Y	M M

CATCH DETAILS

SHIP'S TIME	HOOK No.	SPECIES CODE	GEAR INTER-ACTION CODE	CONDITION CODE		LENGTH		FATE CODE	SEX M, F, I, U	COMMENTS / SSI TREATMENT
				CAUGHT	DISCARD	(cm)	CODE			
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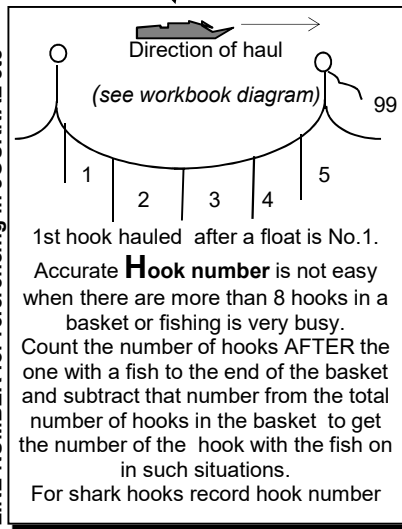
← Tally area	Baskets monitored while filling this page:	Total:
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OBSERVER NAME	OBSERVER TRIP ID NUMBER	SET No.:	PAGE	OF					
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> Line numbering Helps with data entry and observer reporting i.e see page 10 line 15. </div> <div style="border: 1px solid black; padding: 5px; display: inline-block; margin-left: 20px;"> This header should be filled in completely, as described in the notes for FORM LL-2/3 </div>		SHIP'S START OF SET DATE AND TIME			START OF HAUL DATE				
		YY	MM	DD	h h	m m	YY	MM	DD

CATCH DETAILS

SHIP'S TIME	HOOK No.	SPECIES CODE	GEAR INTER-ACTION CODE	CONDITION CODE		LENGTH		FATE CODE	SEX M, F, I, U	COMMENTS / SSI TREATMENT
				CAUGHT	DISCARD	(cm)	CODE			
1720	1	BET	—	A1	—	152	UF	RQG	F	Gonad sample No.3
1812	3	OCS	IHD	—	A2	—	—	DCF	U	crew cut free 3m trace attached

LINE NUMBER for referencing in JOURNAL etc



GEAR INTERACTION CODE

Interaction Codes to be used for interactions with the primary gear (use with best discarded Fate code or of SSIs or captured to describe how hooked

- IEN - Entangled
- IHE - Hooked Externally
- IHI - Hooked Internally (mouth)
- IHJ - Hooked in jaw (circle hook)
- IHD - Hooked deeply - throat or stomach
- IHU - Hooked unknown
- IFB - Feeding on bait during set
- IGO - Interacted with primary gear only

Condition codes to describe the animal's health status; use for when it is first **CAUGHT** and **again** if it is **DISCARDED** (released, thrown away, escaped). Use also for SSIs Interactions, for condition at release

- Code Description
- A0 Alive (not categorized into A1, A2, or A3)
 - A1 Alive, healthy
 - A2 Alive - injured, distressed
 - A3 Alive, but dying
 - D Dead
 - U Condition unknown

Sex:

- M - male,
- F - female,
- I - indeterminate - you inspected the gonads but could not decide what sex it is)
- U = unknown - the gonads were not checked)

SHIP'S TIME	HOOK No.	SPECIES CODE	GEAR INTER-ACTION CODE	CONDITION CODE		LENGTH		FATE CODE	SEX M, F, I, U	COMMENTS / SSI TREATMENT
				CAUGHT	DISCARD	(cm)	CODE			
1920	4	BUM	—	D	—	215	LF	RHQ	F	photo #12
2052	5	TUQ	IHJ	A2	A2	—	—	DCF	U	crew cut free at swivel 3m trace left attached to shark

Species codes. Use the FAO 3-letter codes.

Most commonly caught longline species are listed here but you should always carry a full list of FAO species codes.

Code	Common Name	Code	Common Name
YFT	- Yellowfin	FAL	- Silky shark
BET	- Bigeye	LMA	- Long finned Mako shark
ALB	- Albacore	SMA	- Short finned Mako shark
SKJ	- Skipjack	OCS	- Oceanic white-tip shark
MLS	- Striped Marlin	PTH	- Pelagic Thresher shark
BUM	- Blue Marlin	BTH	- Bigeye Thresher shark
BLM	- Black Marlin	BSH	- Blue shark
SWO	- Swordfish		
SFA	- Sailfish		
SSP	- Short-billed Spearfish		
WAH	- Wahoo	TST	- Sickie pomfret
DOL	- Mahi mahi	BRZ	- Pomfrets and Breams
LAG	- Moonfish (Opah)	BIZ	- Birds
OIL	- Oilfish		
LEC	- Escolar		
	- Rainbow runner		

N.B. Avoid using group codes if the species code is known

Fate codes describe whether the fish was kept (retained) or thrown away / released (discarded). Also - how and/or reason processed / discarded Important to select one **most informative** code !

- RGG - Retained - gilled and gutted (for sale)
- RGT - Retained - gilled gutted and tailed (for sale)
- RWW - Retained - whole
- RPT - Retained - partial (e.g. fillet, loin, trunk)
- RFR - Retained - both fins and trunk (sharks)
- RHG - Retained - headed and gutted (billfish)
- RSD - Retained - but shark damaged
- RCC - Retained - for crew consumption
- RGO - Retained - gutted only.
- ROR - Retained - other reason (specify)

- DFR - Discarded trunk - fins retained (sharks)
- DGD - Discarded - gear damage (tuna only)
- DSD - Discarded - shark damage
- DWD - Discarded - whale damage
- DUS - Discarded - uneconomic species
- DDL - Discarded - too difficult to land
- DSO - Discarded - struck off
- DCF - Discarded - cut free (use 'Comments' to indicate length of line remaining attached)
- DDH - Discarded - de-hooked
- DUN - Discarded - untangled
- DTS - Discarded - too small (target species)
- DPQ - Discarded - poor quality
- DOR - Discarded - other reason (specify)
- DPG - Discarded - SSI handling guidelines followed
- ESC - Escaped

Use **COMMENTS** for other information you think is important about a particular catch item e.g. - to record sample numbers if collecting samples, or to record number of photograph if taking photos, or tag number of any landed and tagged fish. If SSIs are caught indicate how they were handled and whether you think treatment and recovery guidelines were followed.

Length code describes how the fish or animal was measured

Code	Description
TL	- tip of snout to end of tail
UF	- upper jaw to fork in tail
LF	- lower jaw to fork in tail
PF	- pectoral fin to fork in tail
TW	- total width (tips of wings - rays)
CL	- carapace length (turtles)
WL	- wing length tip of wing to wrist (birds)
BL	- beak length (birds)
NM	- not measured

Baskets monitored while filling this page

Count (tally) the baskets (floats) that come aboard as you monitor the catch. This is important to calculate percentage of hooks monitored.

The perfect observer will monitor every hook in every basket hauled on board. However, observers are human so when monitoring stops record time and reason on a line of FORM LL-4. Record time and "returned to monitoring" on the next line when observer returns. The basket count is to calculate % of hooks actually monitored by observers to give scientists a true picture of how efficiently the vessel catches fish. **DO NOT** count unmonitored baskets.

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Tally area

Baskets monitored while filling this page:

Total: 53