

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

FORM LL-4

REVISED DEC 2016

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

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			
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										

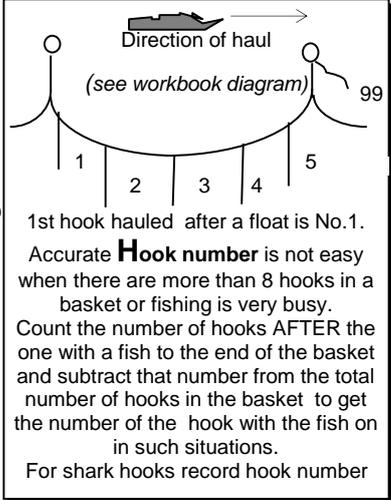
Tally ← area	Baskets monitored while filling this page:	Total:
-----------------	--	--------

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 Y Y M M D D h h m m Y Y M M D D		

CATCH DETAILS

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

LINE NUMBER for referencing in JOURNAL etc



GEAR INTERACTION CODE

NEW Gear interaction Codes to be used for interactions of SSIs with the primary gear or vessel, but not landed on deck

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

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 (cm)		FATE CODE	SEX M, F, I, U	COMMENTS / SSI TREATMENT
				CAUGHT	DISCARD	CODE	CODE			
1920	4	BUM		D		215	LF	RHQ	F	photo #12
2052	5	TUQ	IHI	A2	A2			DPA	U	DCF cut free at sunset, b line still attached to turtle

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	
RRU	

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
 DDH - Discarded - de-hooked
 DTS - Discarded - too small (target species)
 DPQ - Discarded - poor quality
 DOR - Discarded - other reason (specify)
 ESC - Escaped
 DPA - Discarded -protected species, Alive
 DPD - Discarded -protected species, Dead
 DPU - Discarded - protected species, Unknown

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.

	Tally area	Baskets monitored while filling this page:	Total: 53
--	------------	--	------------------