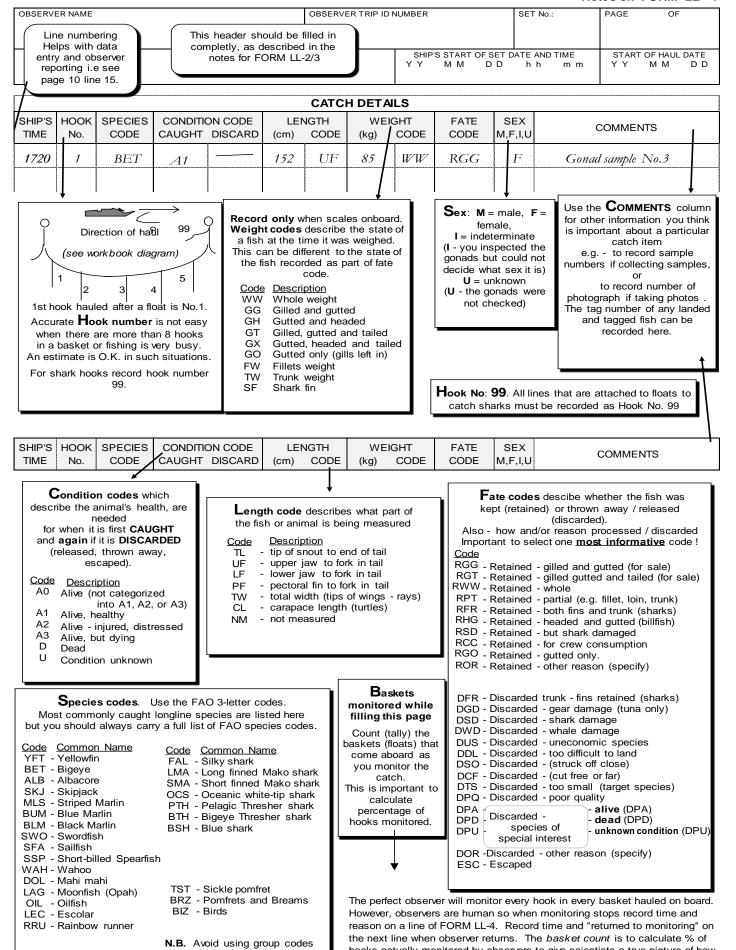# SPC/FFA REGIONAL LONGLINE OBSERVER
CATCH MONITORING

FORM LL-4

REVISED MAR. 2014

OBSERVER NAME		OBSERVER TRIP ID NUMBER		SET No.		PAGE	OF

VESSEL NAME		MEASURING INSTRUMENT	SHIP'S START OF SET DATE AND TIME Y Y M M D D h h m m	START OF HAUL DATE Y Y M M D D

CATCH DETAILS

	SHIP'S TIME	HOOK No.	SPECIES CODE	CONDITION CODE CAUGHT	CONDITION CODE DISCARD	LENGTH (cm)	LENGTH CODE	WEIGHT (kg)	FATE CODE	SEX M, F, I, U	COMMENTS
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
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31											

← Tally area

Baskets monitored while filling this page: Total:

CATCH MONITORING

OBSERVER NAME	OBSERVER TRIP ID NUMBER	SET No.:	PAGE OF

Line numbering Helps with data entry and observer reporting i.e see page 10 line 15.

This header should be filled in completly, as described in the notes for FORM LL-2/3

	SHIP'S START OF SET DATE AND TIME Y Y M M D D h h m m	START OF HAUL DATE Y Y M M D D

CATCH DETAILS

SHIP'S TIME	HOOK No.	SPECIES CODE	CONDITION CODE CAUGHT DISCARD	LENGTH (cm) CODE	WEIGHT (kg) CODE	FATE CODE	SEX M,F,I,U	COMMENTS
1720	1	BET	A1 ——	152 UF	85 WW	RGG	F	Gonad sample No.3

Direction of haul *(see workbook diagram)*

99

1   2   3   4   5

1st hook hauled after a float is No.1.

Accurate **Hook number** is not easy when there are more than 8 hooks in a basket or fishing is very busy. An estimate is O.K. in such situations.

For shark hooks record hook number 99.

Record only when scales onboard. **Weight codes** describe the state of a fish at the time it was weighed. This can be different to the state of the fish recorded as part of fate code.

Code	Description
WW	Whole weight
GG	Gilled and gutted
GH	Gutted and headed
GT	Gilled, gutted and tailed
GX	Gutted, headed and tailed
GO	Gutted only (gills left in)
FW	Fillets weight
TW	Trunk weight
SF	Shark fin

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

Use the **COMMENTS** column 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 . The tag number of any landed and tagged fish can be recorded here.

Hook No: 99. All lines that are attached to floats to catch sharks must be recorded as Hook No. 99

SHIP'S TIME	HOOK No.	SPECIES CODE	CONDITION CODE CAUGHT DISCARD	LENGTH (cm) CODE	WEIGHT (kg) CODE	FATE CODE	SEX M,F,I,U	COMMENTS

Condition codes which describe the animal's health, are needed for when it is first **CAUGHT** and **again** if it is **DISCARDED** (released, thrown away, escaped).

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

Length code describes what part of the fish or animal is being 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)
NM	- not measured

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 !

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 close)
DCF - Discarded - (cut free or far)
DTS - Discarded - too small (target species)
DPQ - Discarded - poor quality
DPA - ... - **alive** (DPA)
DPD - Discarded - ... - **dead** (DPD)
DPU - ... - **unknown condition** (DPU)

Discarded - species of special interest

DOR - Discarded - other reason (specify)
ESC - Escaped

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		
DOL	- Mahi mahi		
LAG	- Moonfish (Opah)	TST	- Sickle pomfret
OIL	- Oilfish	BRZ	- Pomfrets and Breams
LEC	- Escolar	BIZ	- Birds
RRU	- Rainbow runner		

N.B. Avoid using group codes if a species code will work

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.**

LHT LHT LHT LHT LHT LHT LHT LHT LHT LHT III

Tally area ← | Baskets monitored while filling this page: | Total: *53*