

## SPC/FFA REGIONAL LONGLINE FISHERIES

# Trip Preparation Page

A few words of preparation: Remember it is the responsibility of contracted observers to ensure they are properly prepared for their trips – to be in good health, good mind, up to date with current requirements and to have all necessary **forms** and equipment.

At the start of each trip it is imperative to check that all the following items are available for the trip:

*Tick a box only when you are sure you have that item.*

N.B.:  
Forms version  
should be  
"2018"

1.	One of these <b>Observer Workbooks</b> for every 15 days at sea.	
2.	Sufficient <b>Catch Monitoring Forms LL-4s</b> for the trip ( <i>30 sheets per pad</i> )	
3.	Extra pads of LL 2/3 forms as required ( <i>30 sheets per pad</i> )	
4.	NEW: <b>Trip Report Booklet</b> ( <i>one per trip</i> )	
5.	Sufficient <b>Observer Journals</b> ( <i>normally 30 pages per Journal</i> )	
6.	Two blank <b>notebooks</b> ( <i>preferably waterproof</i> )	
7.	One box of <b>pens and pencils</b> ( <i>should contain at least 10 X @B pencils, 2 X erasers, 1 X pencil sharpener, paper clips, 2 X pens, 2 X waterproof felt pens, 1 small straight-edge ruler</i> )	
8.	One calculator	
9.	One set of fish-measuring callipers / and or measuring board.	
10.	A suitable chart	
11.	Your personal requirements	
12.		
13.		
14.		
15.		

Being prepared from the start will make a trip easier, more pleasant and far more effective.



**OBSERVER PROGRAMME**  
**FIELD DATA COLLECTION INSTRUCTIONS**  
(Read these regularly)

**Ensure that your observer trip I.D. number\* is recorded on every form, your journal  
and any other sheets containing information relative to the trip.**

1. Please write clearly - unreadable data are of no use. Use a sharp pencil and keep a spare sharp pencil handy. For waterproof paper and plastic boards write with a soft (#2 or #2B) pencil. An eraser should be used to correct errors on the day of entry only.
2. If using a camera the first photograph on each film should be of a piece of paper with the observer's trip ID number written in very large numbers, with the date the photograph is taken written underneath. For a clear picture keep the camera at least 1.5 metres away from the paper. Use a waterproof felt-tip pen to record the observer trip ID number on the metal casing of any films used or on the outside of disposable cameras used.
3. Always carry a notebook (preferably waterproof) and pencil with you on deck. Note information as it happens and transfer to forms or journal once inside. After information is in journal draw a single neat line through notebook entry to show it is done.
4. Unless otherwise stated, make only one (the best) choice when using the codes to record data.
5. Everything you write on the forms should be printed. Always be conscious about being neat.
6. Number the pages in your journal. Think of something to write in it every day. Don't forget to start each day's entries with the date.
7. Notes and comments are good but, on forms, restrict these only to the areas for that purpose. If there is not enough space to write all that is useful or interesting on the form, make a short note and continue in the journal. Record journal page number next to the short note on the form.
8. Observe and record data accurately. Extra notes and explanations should be simple and clear. Record data as it happens. All data should be entered the same day - trust nothing to memory.
9. Make sure forms are filled in the right order. If a form is accidentally left blank and one after it is filled instead, do not go back to fill the blank form later. If a blank form is discovered between filled forms, draw a thick line diagonally across the page and write "missed" on it.
10. Do not make any changes or corrections to data after the day it is recorded. If a mistake is discovered later, draw a neat circle around it and write:  
"Mistake - correct entry is ??? (whatever it is). See journal page No. ??"  
at the top of the form. Comment in the journal why it was a mistake and how it was discovered.
11. All compass readings are to be degrees true. Do not use magnetic readings.  
(Note: true north is 000 degrees).

**\* UNDERSTANDING OBSERVER TRIP ID NUMBERS**

The observer trip ID number is issued by the authority that authorised the observer trip. It is unique to one ever single observer trip. It should be recorded on any piece of paper with information related to that trip so that no matter where that paper finishes up it can always be traced to that specific trip.

If an observer from a National Observer Programme works in a regional programme for a trip or two, then the observer should use the Observer Trip ID Number provided by the regional programme and not one from the National Programme. If a national programme insists on recording their number (as occasionally happens) record it on the front of this workbook only - in the second (smaller) space provided for a second trip ID number. BUT record the correct regional programme number on all other forms etc., as usual.

N.B.: all observer trips in the region are recorded on the OFP regional database using both the number given and a number made up of: 1) a unique 3-letter code issued to every observer in the region, followed by a space; 2) then two digits for the year, followed by a dash; 3) then two digits that show the number of observer trips that the observer has started that year.

(For example, Albert Einstein, starting his ninth trip in the year 2001 would have the observer trip ID number: ABC 01-09.)

This is also the format used by several national programmes. It has the advantage that an observer knows these things and so knows the trip ID number without having to ask. If the number given does not use this format and the second space is not otherwise needed for a differently formatted number given by a National Programme, then the observer could record this format in the second space.

**SPC/FFA REGIONAL OBSERVER  
OBSERVER PLACEMENT MEETING RECORD**

**FORM SUP-1 (pg1)**

REV 2018

**TRIP DETAILS**

OBSERVER NAME		TRIP START LOCATION		TRIP START DATE (YY/ MM/DD)	
OBSERVER TRIP ID NUMBER		ESTIMATED TRIP END LOCATION		VESSEL GEAR	
VESSEL NAME		FLAG	CALIPER SERIAL NUMBER	UVI and / or IRCS	
VESSEL SIZE: indicate circle to	< 16 metres	16-25 meters	26-39 meters	40-65 meters	> 65 meters
Personal Lifesaving Beacon (PLB) Y / N	PLB Make:	Comments			
	PLB Model:				

**OBSERVER PLACEMENT CHECKLIST**

A Fisheries Authority Representative/Placement Officer is to assist the observer, before and during boarding, as well as over see that information is recorded and actions taken as prescribe in this form. Please intial the space at the left of each number item to show it has been

<i>Initial :</i>		<i>Placement Officer to initial when they have:</i>
1		Set up the placement meeting
2		Assisted the observer with their personal requirements before boarding
3		Checked that the observer has been assigned appropriate accommodation and an area to store their equipment
4		Carried out a vessel safety check in the presence of the observer and Captain
5		Ensured that the Captain receives and understands the attached description (check-list) of standard observer duties and vessel obligations
6		Ensured that both parties are informed of their rights and responsibilities under CMM 2008-01 (Show and, if necessary, supply copy)
7		Reminded the observer that there is no obligation to do extra duties, but it is very much appreciated if they can help out when appropriate.
8		Reminded the Captain and Observer of importance of cooperation
9		Supplied or informed the Captain of the "Vessel on Observer Report" form
10		Informed the Captain and Observer than an observer-debriefing meeting will take place immediately upon return to port at completion of trip
11		Ensured observer's compulsory 2-way communication device is tested and working.
<i>Initial :</i>		<i>Observer to initial when they have:</i>
12		Clearly described any special sampling requirements to the Vessel Captain
13		Has been present at the Vessel Safety Check and have agreed to board the vessel
14		Confirmed that they are medically fit, informed the Captain of any special medical issues (prescription medication etc); and supplied contact details for their next-of-kin
15		Understood that they must report all gifts in their trip report.
16		Understood that in line with their Observer Code of Conduct they should not drink alcohol at any point during the entire trip.
17		Ensured observer's compulsory 2-way communication device is tested and working.
<i>Initial :</i>		<i>Vessel Captain to initial when they have:</i>
18		Read and understood the "Obligations of the Vessel Operators to Observers"
19		Shown the observer all current and valid license certificates
20		Shown the observer the location of their life jacket
21		Informed the observer of all safety regulations, procedures and muster stations
22		Shown the observer which electronic bridge equipment is used and which is not used
23		Shown the observer how to obtain position and UTC time and date from the onboard GPS and plotter to which they have access to during the trip
24		Understood that offering excessive alcohol to observers may interfere with their work duties and general conduct; and be aware that many observers are required by their programmes' Code of Conduct not to drink alcohol at any time while onboard the vessel
25		Ensured observer's compulsory 2-way communication device is tested and working.

## Notes for the VESSEL CAPTAIN on the OBSERVER PLACEMENT

An observer's primary function is to collect and report reliable and accurate information for scientific, management and compliance. Observers collect data on any fish, including catch and effort, size composition, position, fishing methods, fisheries interactions, environmental impact, processing and distribution (including discards) and any other matter that may assist fisheries managers verify information for purpose of administering fisheries regulations, license requirements and access agreements.

The observer duties and their obligations, along with the obligations of the vessel operator to the observers are described below. A thorough understanding of these by both the vessel operator and the observer will help ensure an effective working arrangement while on board.

→ Vessel Captain please read and initial when the obligations of both parties is understood

Capt. Initials

OBSERVER'S DUTIES AND OBLIGATIONS		
1	Must promptly report any harassment they were subjected to (including a written report to their fisheries authority representative or when not available the nearest Police station)	1
2	May take, measure and retain samples or specimens of any fish	2
3	May observe and record details of any incidental take, including the recording of set position information	3
4	May record position, activity and identification details of other vessels sighted	4
5	May use communications and other equipment of the vessel but should get permission from the Captain before using it	5
6	Should not be involved in the fishing operations but may assist in normal vessel housekeeping duties	6
7	Should not stand watch on the vessel	7
8	May take photographs of the fishing operations, including fish, gear, equipment, documents, charts and records, and remove from the vessel such photographs or film as was taken or used onboard	8
9	Observers should not drink alcohol at any point during the trip in accordance with Observer Code of Conduct.	9
10	Observer must sign for and report any gifts they have received from the vessel during the trip.	10
OBLIGATIONS OF THE VESSEL OPERATORS TO THE OBSERVER (CMM 2008-01)		
11	Ensure vessel personnel do not assault, obstruct, resist, refuse boarding to, delay, intimidate or interfere with an observer performing observer duties	11
12	Allow access to the bridge, communications and navigation equipment	12
13	Instruct observer on use of vessel communications equipment to receive and transmit message with the shore, Fishery Authority and other vessels	13
14	Assist observer as requested, in recording accurate vessel position using vessel navigation and positioning equipment	14
15	Provide access to areas where fish are held, processed, weighed or stored	15
16	Allow observer access to document and records, including all logbook for purpose of inspection and copying	16
17	Allow observer to remove samples	17
18	Ensure vessel personnel do not assault, obstruct, resist, refuse boarding to, delay, intimidate or interfere with an observer performing observer duties	18
19	Show the observer appropriate vessel safety procedures and location of various safety equipment (life rafts, life jackets, etc) and how to use such equipment in the event of an emergency	19
20	Advise the observer of dangerous work areas and instruct the observer on how to minimise exposure (e.g. hard hat) to danger yet still do their work	20
21	Provide the observer with food, clean bunk space large enough for a national observer and any necessary medical facilities and treatment in the course of the observer trip and up to two full days after landing in	21
22	Provide appropriate space for the storage of observer equipment, supplies and samples	22
23	Vessel operators and owners should be fully aware that any instance of reported observer harassment will be fully investigated and, if warranted, legal action will follow, which may include civil and criminal penalties	23
24	Inform vessel Captain of where he can get a copy of the Vessel Report on the Observer	24



**SPC/FFA REGIONAL OBSERVER  
OBSERVER PLACEMENT MEETING RECORD**

**FORM SUP-1** (pg2)

REV 2018

OBSERVER NAME	VESSEL NAME	OBSERVER TRIP ID NUMBER
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**VESSEL SAFETY CHECK**

	CIRCLE ONE	COMMENTS
1 VESSEL SURVEY DOCUMENTATION (Current)	Yes No	
2 CORRECT SIZE PERSONAL FLOATATION DEVICES AVAILABLE	Yes No	
3 APPROVED LIFERAFT OR LIFEBOATS UNDER CURRENT SURVEY AND ADEQUATE FOR NUMBER OF CREW	Yes No	
4 EPIRBS (Current Survey)	Yes No	
5 DISTRESS SIGNALS AND FLARES	Yes No	
6 FIRE FIGHTING EQUIPMENT IN GOOD ORDER	Yes No	
7 FIRE EXTINGUISHERS (Current Checked)	Yes No	
8 MARINE RADIO HF SSB or SUBITUTE COMMUNICATIONS	Yes No	
9 NAVIGATION LIGHTS / VESSEL LIGHTS (Working Order)	Yes No	
10 SOUND PRODUCING DEVICES OR BELL	Yes No	
11 REGISTRATION DOCUMENTATION IN ORDER	Yes No	
12 OTHER WORK RELATED VESSELS ON BOARD THAT COULD BE UTILISED IN CASE OF EMERGENCY	Yes No	
13 NAUTICAL CHARTS AND NAVIGATION AIDS (GPS/RADAR)	Yes No	
14 FIRST AID EQUIPMENT	Yes No	
15 SANITATION	Yes No	
16 PHONE	Yes No	
17 EMAIL / FAX	Yes No	
18 INSURANCE FOR OBSERVER WHILST ON BOARD	Yes No	
19 VESSEL INSURANCE	Yes No	
20 ROOM FOR CREW AND OBSERVER TO WORK SAFELY	Yes No	

**THE OBSERVER WAS PRESENT FOR THE VSC AND AGREES TO BOARD THE VESSEL YES / NO**

(If no: record the reasons here and continue on to another attached page if necessary)

**ACKNOWLEDGED** (Observer Placement Meeting Record - page 1 and page 2, front and back read/ initialed/ accepted)

OBSERVER	NAME	SIGNATURE	DATE
VESSEL CAPTAIN	NAME	SIGNATURE	DATE
FISHING MASTER (if any)	NAME	SIGNATURE	DATE
FISHING AUTHORITY REPRESENTATIVE	NAME	SIGNATURE	DATE
INTERPRETER (if any)	NAME / POSITION	SIGNATURE	DATE
FISHING AUTHORITY REPRESENTATIVE	POSITION	SIGNATURE	DATE

## EXPLANATION ON VSC REQUIREMENTS

The fields in this form may be used to check safety, on whether an observer is safe to board the vessel.

- 1. VESSEL SURVEY DOCUMENTATION CURRENT** Fishing Vessels and support vessels operating in the WCPFC must comply with their Flag State regulations and/or the Code of Practice for Safety. Ship surveys including condition, safety and security aspects of hull, machinery and on board safety equipment must be available to be viewed.
- 2. CORRECT SIZE PERSONAL FLOATATION DEVICE AVAILABLE** Life Jackets must be approved types and in good serviceable condition, Life Jackets of suitable sizes must be readily accessible for the observer and all crew. Life jackets will not be stored away or locked in cupboards or rooms.
- 3. APPROVED LIFE** -Life rafts must be currently in survey and be adequate to carry the amount of crew and observer.
- 4. EPIRBS** International Standard 406 MHz EPIRB. The signal frequency (406 MHz) has been designated internationally for use only for distress. Check to see the frequency number and position of these EPIRBS, a few vessels may have the older relatively common type of 121.5/243 MHz emergency beacons, these became obsolete in late 2008.
- 5. DISTRESS SIGNAL AND FLARES.** Vessels should have on board appropriate pyrotechnics devices that will suitably operate in both day and night emergency situations.
- 6. FIRE FIGHTING EQUIPMENT** Fire fighting must be readily available, be able to work and be currently serviceable. Note that some small vessels may only have fire extinguishers on board.
- 7. MOUNTED FIRE EXTINGUISHER,** Fire extinguishers must be readily available and be of the correct type. Portable extinguishers require periodic maintenance therefore the last inspection date when last tested or refilled should be available. All must be currently serviceable and if possible should be checked to ensure extinguishes have not been fully or partially discharged.
- 8. MARINE RADIO HF SSB(WORKING ORDER)** Marine SSB (Single Side Band) is a means of communications for many fishing vessels. The radio must be capable of transmitting and receiving frequencies used for emergency marine communications as agreed by the International Telecommunication Union (ITU) or by the Flag State of the vessel.
- 9. NAVIGATION LIGHTS AND VESSEL LIGHTS** Vessels must be able to display international standard navigation lights between sunset and sunrise and in conditions of reduced visibility. Internal and external vessel lighting must be fully operational. In the case of power failure, battery operated safety lights must be appropriately placed to ensure a safe exit from the vessel.
- 10. SOUND PRODUCING SIGNALS OR BELLS** Vessels must carry a sound producing device (whistle, horn, siren or bell) capable of a prolonged blast or ringing for distress signaling purposes.
- 11. REGISTRATION DOCUMENTATION IN ORDER** Flag State Registration documentation papers must be on board and available to be viewed and must show registration number, boats name, country and port of registration.
- 12. OTHER WORK RELATED VESSELS** Many vessels have auxiliary vessels that can be used in emergency situations. Note these.
- 13. NAUTICAL CHARTS AND NAVIGATION AIDS** Vessel must have a set of appropriate, up to date nautical charts. Check to ensure that the Radar, GPS and any other navigational equipment is in good order and functioning.
- 14. FIRST AID EQUIPMENT** The vessel must have adequate first aid facilities with current “use by dates” on all apparatus, drugs, dressings and other first aid paraphernalia.
- 15. SANITATION** The vessel should have clean, well maintained sanitation and bathing facilities. Depending on the size of the vessel, observers may experience a lack of these facilities on board.
- 16. PHONE** if the vessel has a satellite phone note the number for future reference.
- 17. EMAIL/FAX** If the vessel has Fax or Email system note the numbers for future reference or emergencies.
- 18. INSURANCE FOR OBSERVERS ON BOARD** - Observers must be covered by insurance before making a boarding
- 19. VESSEL INSURANCE** – Check if vessel has insurance
- 20. ROOM FOR OBSERVER AND CREW TO WORK SAFELY.** There must be adequate room on board the deck for the Observer and Crew to work in such a manner, so as to not hinder each other in their respective work duties.

# SPC/FFA REGIONAL OBSERVER WORKBOOK REFERENCE FORM

**FORM SUP-2**  
for longline

REV DEC. 2016

## TRIP DETAILS

OBSERVER NAME	TRIP START LOCATION	TRIP START DATE (YY/MM/DD)
VESSEL NAME	TRIP END LOCATION	TRIP END DATE (YY/MM/DD)
OBSERVER TRIP ID NUMBER		

## OBSERVER PROGRAMME DETAILS

Name of placement observer programme	
Name of observer's national programme	
Cross-endorsed trips: Programme Name and Trip Id Number	

## SPECIAL PROJECTS

Special Projects: Name and Reference Number	
Special Projects: Name and Reference Number	

## FORMS MANAGEMENT

FORMS TYPE	NAME OF FORM	How Many ?
SUP-1 (page1)	Observer Placement Meeting Record Form (pg1)	
SUP-1 (page 2)	Observer Placement Meeting Record Form (pg2)	
SUP-2	Workbook Reference Form	
LL-1	Longline General Information	
LL-1 (page2)	Longline General Information (pg2)	
LL-2/3	Longline Set and Haul Information	
LL-4	Longline Catch Monitoring	
GEN-1	Vessel and Aircraft Sightings/ Fish Bunkering & Other Transfers	
GEN-2	Species of Special Interest - Vessel Interactions	
GEN-2 supp	Species of Special Interest - Sightings	
GEN-3	Vessel Trip Report - <b>you must fill in this form!</b>	
GEN-4	Conservation Factors	
GEN-6	Pollution Report	
SUP-3	Trip Reconciliation Form	
SUP-4	Advances and Claims Forms	
TAG	Tag Recovery Forms (single and multiple tags)	
JOU	Journal (RECORD TOTAL NUMBER OF PAGES)	
RPT	Trip Report Submitted	Yes or No

\*\*\* Observers are not required to fill in the shaded areas below\*\*\*

## DEBRIEFING DETAILS

( Debriefer )

NAME of PRE-DEBRIEFER		NAME OF DEBRIEFER	
DATE of PRE-DEBRIEFING		DATE OF DEBRIEFING	
PLACE of PRE-DEBRIEFING		PLACE OF DEBRIEFING	

## WORKBOOK TRANSFER

WAS THIS COPY DEBRIEFED BEFORE TRANSFER?	YES or NO
DATE TRANSFERRED	



**CHANGES TO THE LONGLINE OBSERVER FORMS AGREED BY  
11<sup>TH</sup> TUNA FISHERY DATA COLLECTION COMMITTEE (DCC), AUGUST 2018<sup>1</sup>**

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

**FORM LL-4**

***Issue***

Prior to 2016 SSIs condition code at interaction or capture was recorded on the GEN-2. This was more descriptive combining condition code (life status) with interaction codes (how captured and where hooked). With the transfer of SSI interactions and catches to LL-4 (after 2016) the instructions state that the interaction codes were used for interactions.

***Agreed Changes***

DCC11 agreed that the interactions field is used for all **SSI interactions and captures** (landed on deck) to provide more detail on hooking injuries for SSIs landed and discarded.

This would also make the discarded protected species Fate Codes for SSI's redundant (DPA, DPD, DPU), as other codes will provide more information on the treatment of the SSI such as Discarded Struck Off or Discarded Cut Free (DCF) or Discarded Dehooked (DDH). There is an additional note in the instructions to indicate in comments what length/type of gear remained attached to the SSI. A new Fate Code 'DUN' indicates if an entangled SSI was untangled for release. A new Fate Code 'DPG' indicates whether WCPFC SSI treatment guidelines (such as for sharks and turtles) were followed when landed.

Some of the discard codes would indicate if the animal was released prior to landing (DSO, DCF, etc). If the animal only interacted with the primary gear but was not hooked or entangled such as just feeding on bait, only use the Interaction Code and Condition Code would be used, no Fate Code.

**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)  
DPG - Discarded - SSI handling guidelines followed  
ESC - Escaped

***Code Changes***

**Added** –DUN Fate Code to be used for entangled catch that is untangled prior to release.

**DPG** - Use this Fate Code if the WCPFC specific handling guidelines were followed.

**Removed** – Fate Codes DPA, DPD, DPU use more specific codes for how the animal was handled. Use comments for further detail

**Instructions** – if Fate Code DCF is used or if any gear remains attached indicate the length of gear attached in Comments.

Use Gear Interaction Codes for SSI interactions and landings to indicate how it was hooked.

<sup>1</sup> Observers are strongly encouraged to read the form instructions to better understand what data needs to be recorded. These notes are to identify the changes that were made to the forms and provide explanation.



OBSERVER PROGRAMME:	<b>SPC/FFA REGIONAL LONGLINE OBSERVER GENERAL INFORMATION</b>	<b>FORM LL-1</b> (pg1)
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2018

TRIP DETAILS												
OBSERVER	NAME		TRIP START (SHIP DATE AND TIME)				TRIP START LOCATION					
			YY	M M	DD	h h				m m		
	NATIONALITY		TRIP ID No.		TRIP END (SHIP DATE AND TIME)				TRIP END LOCATION			
					YY	M M	D D	h h				m m
VESSEL NAME					VESSEL DEPARTURE (SHIP DATE)			VESSEL DEPARTURE PORT		<b>CREW NATIONALITY</b>		
												YY
<b>VESSEL</b>												
VESSEL OWNER					COUNTRY REGISTRATION NO.			UVI		OTHER CREW: : How many ?		
VESSEL CAPTAIN			ID document		No.			FLAG		IRCS		
FISHING MASTER			ID document		No.			FISH HOLD CAPACITY		mT		
FISHING PERMIT or LICENSE Nos.					LENGTH OVERALL		Metres		GT		circle one	
					(Circle one unit)		Feet		GRT		mT	

ELECTRONICS									
		GPS		Y / N		DEPTH SOUNDER		Y / N	
		TRACK PLOTTER		Y / N				SST GAUGE	
		USAGE		MAKE		MODEL		COMMENTS	
ADVANCES in TECHNOLOGY				Y / N					
		SONAR		Y / N					
RADIO BEACON DIRECTION FINDER				Y / N					
		GPS BUOYS		Y / N				How many ?	
DOPPLER CURRENT METER				Y / N					
XBT (BATHY THERMOGRAPH)				Y / N					
VMS SYSTEMS		VMS-1		Y / N					
		VMS-2		Y / N					
COMMUNICATION SERVICES		PHONES		SATellite:		Y / N		Phone #	
		OTHER		FACSIMILE:		Y / N		Fax #	
INFORMATION SERVICES		WEATHER		WEATHER FAX		Y / N		SATELLITE WEATHER MONITOR	
		WEBSITES		Phytoplankton		Y / N		SST	
				WWW:				WWW:	
								Sea Height	
								Y / N	

FISHING GEAR																	
ADVANCES in TECHNOLOGY		MAINLINE HAULER		Y / N		BRANCHLINE HAULER		Y / N									
				LINE SHOOTER				Y / N									
		AUTOMATIC BAIT THROWER		Y / N													
		AUTOMATIC BRANCHLINE ATTACHER		Y / N													
		WEIGHING SCALES		Y / N													
		OFFAL DISPOSAL MACHINE		Y / N													
						Y / N											
		<b>SAFETY EQUIPMENT</b>															
LIFE JACKET		PROVIDED FOR OBSERVER:				Y / N / O		Number of LIFE BUOYS / LIFE RINGS									
		SUITABLE SIZE:				Y / N											
AVAILABILITY (circle one)		Easy				Moderate		Hard									
EPIRBs Total		Total with Exp Bat.		<b>LIFE RAFTS</b>		1		2									
						3		4									
406				Number of PEOPLE		No.		No.									
						No.		No.									
other				INSPECTION DATE (D or L - yy/mm)		YY/MM (L or D)		YY/MM (L or D)									
						YY/MM (L or D)		YY/MM (L or D)									
<b>REFRIGERATION METHOD</b>																	
TERMINAL GEAR (see TG ID guide)		MAINLINE:		MATERIAL		DIAMETER		LENGTH									
										BRANCHLINE MATERIALS:		WIRE TRACE ?					
														BRANCHLINE WEIGHTS?		YES / NO	
CIRCLE size %		"J" size %		TERACIMA size %													
						OFFSET, RINGS, and/or SWIVELS (O, R, S)		record each used		WASTE DISPOSAL SYSTEM? Y / N		STRATEGIC OFFAL DISPOSAL? Y / N					
DESCRIBE strategic offal disposal for fish (important). Also mention any general waste disposal systems.		DESCRIBE strategic offal disposal for fish (important). Also mention any general waste disposal systems.															

## GENERAL INFORMATION

### Observer programme :

record the country code if working for a national programme, refer to country codes or the abbreviation if a regional programme (e.g.: USMLT, FSMA, PNA, SPC, ROP, etc.) of the authority / provider that has allocated this trip

**A complete fishing trip is defined as 'from one full or partial unloading to the next full or partial unloading'.**

If an observer trip is not over a normal complete fishing trip the reasons why must be in the trip report - also see "Partial trips" notes, below.

**N.B.:** Wherever there is a **Y / N** (yes or no) option for an item, either the **"Y"** or the **"N"** must be circled

### TRIP DETAILS

Observer Name and Nationality : Record first name and family name in full (e.g. "John Masa"); and Nationality as in passport

Observer Trip ID Number : Print number issued by the authority sending you on this trip.

(e.g. John H. Masa, on his third trip in 1996 might be issued Trip ID Number: "JHM 96-03").

Trip start (Ship Date and Time) } Print date using "year year/ month month / day day" format.

Trip end (Ship Date and Time) } Print time using 24 hour "hour hour : minute minute" format.

(e.g. Print five past one on the afternoon on 3rd of January, 1996 as "96/01/03 - 13:05").

USE  
SHIP'S TIME

also read N.B. for  
departure/return port

Observer Trip Start, Trip End, and Vessel Departure Port : Record in all three boxes even if it is the same port.

**N.B.:** an observer trip starts only once the actual vessel to be observed is boarded and ends when disembarking that vessel.

**Partial trips** - If boat is met at sea the 'trip start date and time' is the date and time that the transfer between vessels occurs.

The 'trip start location' is "At sea" followed by a position recorded in degrees and minutes only (dd<sup>0</sup> mm').

If the observer transfers from a host vessel to another vessel to end their trip the 'end of trip date and time' is time of transfer.

The 'end of trip location' is "At sea" followed by a position recorded in degrees and minutes only (ddOmm').

**Multiple trips** - treat work on 2 (or more) different vessels while at sea as 2 (or more) trips, each with its own forms.

### VESSEL

Vessel Name, Vessel Owner, Vessel Captain, Fishing master : Print full names whenever possible.

Country Registration : Number issued by country in which the vessel is registered (e.g. "ME1-808").

Unique Vessel

WCPFC requires all vessels over 100 Gross Tonnage to have a UVI after 1st Jan 2016. The number may appear on certificates before 2016. Generally the UVI is the International Marine Organisation number or the the Lloyd's Register

Identifier

(LR) number. If there is no UVI just make a dash in the data field.

Flag : Name of country in which vessel is registered (e.g. "Belize") even if it comes from another country, such as Korea.

International radio call-sign (IRCS) : Do not confuse with Registration No. Note in report if vessel has no proper IRCS.

Vessel Captain - ID Document / No. : Along with the Captain's and Fishing Master's full names record identification document

Fishing Master - ID Document / No. : types and the document numbers for each of them

The preferred document is a Captain or Master's license but another, such as their passport, will do if that is not possible.

Fishing Permit or Licence Number(s) : If vessel fished under one or more bilateral access agreements, then print the

fishing permit number issued by each of the coastal states in whose waters the vessel fished during the trip.

If vessel fished under a multilateral treaty, then print the permit number issued to vessel under the multilateral treaty

If the vessel is registered in the coastal state, then print the fishing licence number issued by the coastal state.

Length overall (LOA) : The place to find vessel's length overall (LOA) and gross tonnage is on registration papers.

Gross tonnage (GT) / Gross Registered Tonnage (GRT) : Normally record Gross Tonnage (GT) . For older vessels if no GT, then record gross registered tonnage (GRT) . Check for changes to length and/or gross tonnage.

Fish Hold Capacity : (record in metric tonnes (mT)) can usually be found in deck plans and engineer's logs.

Record the total space for all holds that can carry fish regardless of whether they are used to carry fish on this trip

### CREW NATIONALITY

Captain, Fishing Master : In the "Crew Nationality" section record only the nationality of the Captain and/or Fishing Master

No need to record their names or identification documents here because they are recorded in the "Vessel" section already

Other Crew - How many ? : Record what other nationalities of crew and how many of each nationality there is.

Do not include the Captain and Fishing Master in these counts.

### ELECTRONICS

(circle "Y" or "N" (yes or no) to show if each item is present or not present on board)

\* Advances in technology : Empty lines are to record new types of equipment or major upgrades to the current electronics or any types of advances in fishing electronics technology . Don't record old pieces of equipment not listed like radio etc. Write about new equipment in journal and trip report.

Usage : use codes (bottom front of form) to show how much each piece of equipment, for which "Y" is circled, is used

VMS - 1 and VMS - 2 : Record system type (e.g.: InMarSat-C, Iridium, Argos) for each "vessel monitoring system" used. Also use the usage codes to record when the VMS system was being used.

Communication services : If vessel uses satellite and/or mobile phones and/or fax and/or email record the contact details.

Fishery Information Services : Vessels may receive real-time information on some oceanographic features.

Circle **Y** or **N** to show if they get information on sea-surface temperature (SST), phytoplankton densities or sea height. If they are receiving another type of information record that in "Comments" and write about it in your trip report.

If "Y", record the www: (website address) below the "Y / N" and write more about the website in your written report.

See the back of LL-1 (page2) for more notes on gear, safety equip., refrigeration, waste disposal system and observations...



**SPC/FFA REGIONAL LONGLINE OBSERVER  
GENERAL INFORMATION**

**FORM LL-1 (pg2)**

**OBSERVATIONS / COMMENTS / OTHER GEAR / UNUSUAL USE OF GEAR**

Write notes here and full descriptions in the daily journal and trip report  
(put page references to the full descriptions beside the notes written here)

(circle "Y" or "N" (yes or no) to show if each item is present or not present on board)

**Weighing scales** : If weighing scales used to weigh retained fish are on-board, circle "Y" (yes)

**For help with the rest of this section use the SPC Terminal Gear Identification Guide (TG ID guide)**  
**Note that the TG ID guide can be used to measure hook size and line diameter**

**Mainline** : Write down the material the mainline was made out of i.e monofilament or tarred rope

Record the total length of the mainline in nautical miles - ask Captain for this information.

Get the diameter of the mainline. Use small callipers to measure the width of the mainline.

**Branchline** : Record all types of material used in branchline (including wire trace) - see LL Terminal Gear guide  
**Branchline weights** : If any weights have been added to the branchline - normally to weigh the line down and allow it to sink faster, record the information. Record the average weight in grams and then 2) record the Distance of the Weight from the Hook in centimeters.

**Wire trace** : Indicate if wire trace (wire just before the hook) was used in the branchline.

**Hooks** : for each type of hook used record the size and the percentage of that hook that is usually used in each set. Show if hooks were **Offset** (O), had **Rings** (R) or **Swivels** (S). Record three letters and/or dashes in each box.

- e.g.: if vessel sets 10-hook baskets with standard size 12.0 circle hooks with rings and swivels on hook numbers 1,2, 9, 10, but with offset "J" hooks (size 10.0) with no rings or swivels on every other line in a basket an observer will record as:

JAPAN size %		CIRCLE size %		"J" size %		TERACIMA size %	
—	—	12.0	40	10.0	60	—	—
—	—	—	R S	O	—	—	—

## SAFETY EQUIPMENT

(obtain as much information as possible without intruding)

**Life jacket** : if the life jacket is the observer's own or was issued by their provider, circle "O".  
 if the observer doesn't have their own but the vessel supplies one, circle "Y", or "N" if one is not supplied  
 Was it a good size ? - circle Y (yes) or N (no)  
 If the life jacket is carried by the observer or if it is allocated by the vessel and is easily available circle "easy"  
 if it is allocated by the vessel but it is not so easy to get to circle "moderate"  
 and if an allocated life jacket is very difficult to get to circle "hard"

**Lifebuoys/life rings** - count all to be found

**EPIRBS** - count all EPIRBS onboard **including** those with expired battery renewal dates. Don't count any inside life raft.  
 Only count the EPIRBS that observers normally have access to.  
 - then just count only the EPIRBS with expired battery renewal dates.

**Life rafts** - **Number of People** - record the number of people that each life raft is certified to carry.  
 - **Inspection Date** - check carefully for inspection stickers/labels or fixed plates with inspection information  
 Find out from these inspection certificates when the next inspection is due (or when last was carried out)  
 - if label has an inspection **Due** date record the letter "D" then a dash ("-"), then the date in 'dd/mm/yy' format  
 - if a **Last** inspection date is on the inspection label record the letter "L", then a dash, then the date  
 (e.g.: for an inspection due on 30th June 2012 record "D-30/06/12"; If, after a careful check for life-raft inspection labels, dates cannot be found, record "ND" for 'not displayed'.

## REFRIGERATION METHOD (circle "Y" or "N" (yes or no) to show if each method is present or not present)

N.B.: There may be more than one refrigeration method so record yes or no for each one.

**Other storage** : If another refrigeration or other storage method is observed describe it in detail in the trip report.

**WASTE DISPOSAL SYSTEM ?** (circle "Y" or "N") to indicate if a waste disposal system is present) A waste disposal system is either a machine or a procedure to properly process garbage / oil / plastics (refer to GEN-6).

Examples of equipment include incinerators, crushers, shredders, compacters, balers, meal plants, barrel to contain oil etc. Example of procedures might be keeping all plastic waste until the end of the trip. If present describe how

**STRATEGIC OFFAL DISPOSAL?** (circle "Y" or "N") . Circle Y if the vessel has procedures about discarding fish offal (guts, bait, bits of fish) during the setting/hauling cycle. this could be no disposal of fish offal during setting or hauling or disposal from certain locations on the vessel (i.e. the opposite side to hauling or setting )

## OBSERVATIONS / COMMENTS, OTHER GEAR, UNUSUAL USE OF GEAR

Write about anything special observed about this boat and its equipment or crew compared to other boats observed.

Comment if equipment is not working, not used or is used in an unusual way and describe fishing gear that is different to

equipment observed on other longliners, recording the make, model, special characteristics and usage of this new gear.

If there is lots to write about (good) write in the observer's daily journal and in the proper place in the trip report then write brief notes here but include page No.s so that others can easily find what is written in the journal and trip report.

OBSERVER PROGRAMME:	<b>SPC/FFA REGIONAL LONGLINE OBSERVER GENERAL INFORMATION</b>	<b>FORM LL-1</b> (pg1)
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## GENERAL INFORMATION

### Observer programme :

record the country code if working for a national programme, refer to country codes or the abbreviation if a regional programme (e.g.: USMLT, FSMA, PNA, SPC, ROP, etc.) of the authority / provider that has allocated this trip

**A complete fishing trip is defined as 'from one full or partial unloading to the next full or partial unloading'.**

If an observer trip is not over a normal complete fishing trip the reasons why must be in the trip report - also see "Partial trips" notes, below.

**N.B.:** Wherever there is a **Y / N** (yes or no) option for an item, either the **"Y"** or the **"N"** must be circled

### TRIP DETAILS

Observer Name and Nationality : Record first name and family name in full (e.g. "John Masa"); and Nationality as in passport

Observer Trip ID Number : Print number issued by the authority sending you on this trip.

(e.g. John H. Masa, on his third trip in 1996 might be issued Trip ID Number: "JHM 96-03").

Trip start (Ship Date and Time) } Print date using "year year/ month month / day day" format.

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USE  
SHIP'S TIME

also read N.B. for  
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Unique Vessel

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Identifier

(LR) number. If there is no UVI just make a dash in the data field.

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Fishing Master - ID Document / No. : types and the document numbers for each of them

The preferred document is a Captain or Master's license but another, such as their passport, will do if that is not possible.

Fishing Permit or Licence Number(s) : If vessel fished under one or more bilateral access agreements, then print the

fishing permit number issued by each of the coastal states in whose waters the vessel fished during the trip.

If vessel fished under a multilateral treaty, then print the permit number issued to vessel under the multilateral treaty

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Fish Hold Capacity : (record in metric tonnes (mT)) can usually be found in deck plans and engineer's logs.

Record the total space for all holds that can carry fish regardless of whether they are used to carry fish on this trip

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(circle "Y" or "N" (yes or no) to show if each item is present or not present on board)

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Circle **Y** or **N** to show if they get information on sea-surface temperature (SST), phytoplankton densities or sea height. If they are receiving another type of information record that in "Comments" and write about it in your trip report.

If "Y", record the www: (website address) below the "Y / N" and write more about the website in your written report.

See the back of LL-1 (page2) for more notes on gear, safety equip., refrigeration, waste disposal system and observations...

**SPC/FFA REGIONAL LONGLINE OBSERVER  
GENERAL INFORMATION**

**FORM LL-1 (pg2)**

**OBSERVATIONS / COMMENTS / OTHER GEAR / UNUSUAL USE OF GEAR**

Write notes here and full descriptions in the daily journal and trip report  
(put page references to the full descriptions beside the notes written here)

(circle "Y" or "N" (yes or no) to show if each item is present or not present on board)

**Weighing scales** : If weighing scales used to weigh retained fish are on-board, circle "Y" (yes)

**For help with the rest of this section use the SPC Terminal Gear Identification Guide (TG ID guide)**  
**Note that the TG ID guide can be used to measure hook size and line diameter**

**Mainline** : Write down the material the mainline was made out of i.e monofilament or tarred rope

Record the total length of the mainline in nautical miles - ask Captain for this information.

Get the diameter of the mainline. Use small callipers to measure the width of the mainline.

**Branchline** : Record all types of material used in branchline (including wire trace) - see LL Terminal Gear guide  
**Branchline weights** : If any weights have been added to the branchline - normally to weigh the line down and allow it to sink faster, record the information. Record the average weight in grams and then 2) record the Distance of the Weight from the Hook in centimeters.

**Wire trace** : Indicate if wire trace (wire just before the hook) was used in the branchline.

**Hooks** : for each type of hook used record the size and the percentage of that hook that is usually used in each set. Show if hooks were **Offset** (O), had **Rings** (R) or **Swivels** (S). Record three letters and/or dashes in each box.

- e.g.: if vessel sets 10-hook baskets with standard size 12.0 circle hooks with rings and swivels on hook numbers 1,2, 9, 10, but with offset "J" hooks (size 10.0) with no rings or swivels on every other line in a basket an observer will record as:

JAPAN size %		CIRCLE size %		"J" size %		TERACIMA size %	
—	—	12.0	40	10.0	60	—	—
—	—	—	R S	O	—	—	—

## SAFETY EQUIPMENT

(obtain as much information as possible without intruding)

**Life jacket** : if the life jacket is the observer's own or was issued by their provider, circle "O".  
 if the observer doesn't have their own but the vessel supplies one, circle "Y", or "N" if one is not supplied  
 Was it a good size ? - circle Y (yes) or N (no)  
 If the life jacket is carried by the observer or if it is allocated by the vessel and is easily available circle "easy"  
 if it is allocated by the vessel but it is not so easy to get to circle "moderate"  
 and if an allocated life jacket is very difficult to get to circle "hard"

**Lifebuoys/life rings** - count all to be found

**EPIRBS** - count all EPIRBS onboard **including** those with expired battery renewal dates. Don't count any inside life raft.  
 Only count the EPIRBS that observers normally have access to.  
 - then just count only the EPIRBS with expired battery renewal dates.

**Life rafts** - **Number of People** - record the number of people that each life raft is certified to carry.  
 - **Inspection Date** - check carefully for inspection stickers/labels or fixed plates with inspection information  
 Find out from these inspection certificates when the next inspection is due (or when last was carried out)  
 - if label has an inspection **Due** date record the letter "D" then a dash ("-"), then the date in 'dd/mm/yy' format  
 - if a **Last** inspection date is on the inspection label record the letter "L", then a dash, then the date  
 (e.g.: for an inspection due on 30th June 2012 record "D-30/06/12"; If, after a careful check for life-raft inspection labels, dates cannot be found, record "ND" for 'not displayed'.

## REFRIGERATION METHOD (circle "Y" or "N" (yes or no) to show if each method is present or not present)

N.B.: There may be more than one refrigeration method so record yes or no for each one.

**Other storage** : If another refrigeration or other storage method is observed describe it in detail in the trip report.

**WASTE DISPOSAL SYSTEM ?** (circle "Y" or "N") to indicate if a waste disposal system is present) A waste disposal system is either a machine or a procedure to properly process garbage / oil / plastics (refer to GEN-6).

Examples of equipment include incinerators, crushers, shredders, compacters, balers, meal plants, barrel to contain oil etc. Example of procedures might be keeping all plastic waste until the end of the trip. If present describe how

**STRATEGIC OFFAL DISPOSAL?** (circle "Y" or "N") . Circle Y if the vessel has procedures about discarding fish offal (guts, bait, bits of fish) during the setting/hauling cycle. this could be no disposal of fish offal during setting or hauling or disposal from certain locations on the vessel (i.e. the opposite side to hauling or setting )

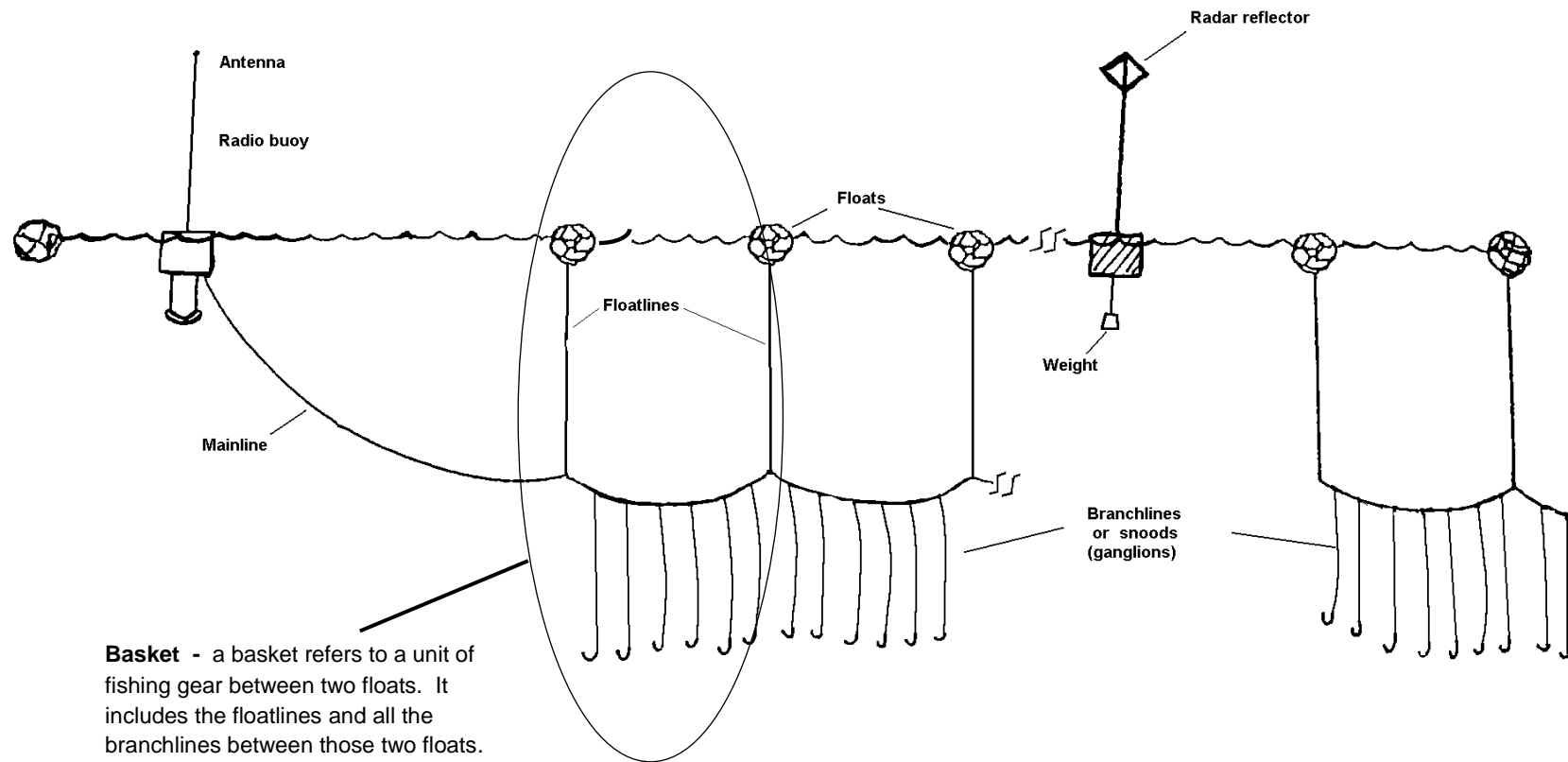
## OBSERVATIONS / COMMENTS, OTHER GEAR, UNUSUAL USE OF GEAR

Write about anything special observed about this boat and its equipment or crew compared to other boats observed.

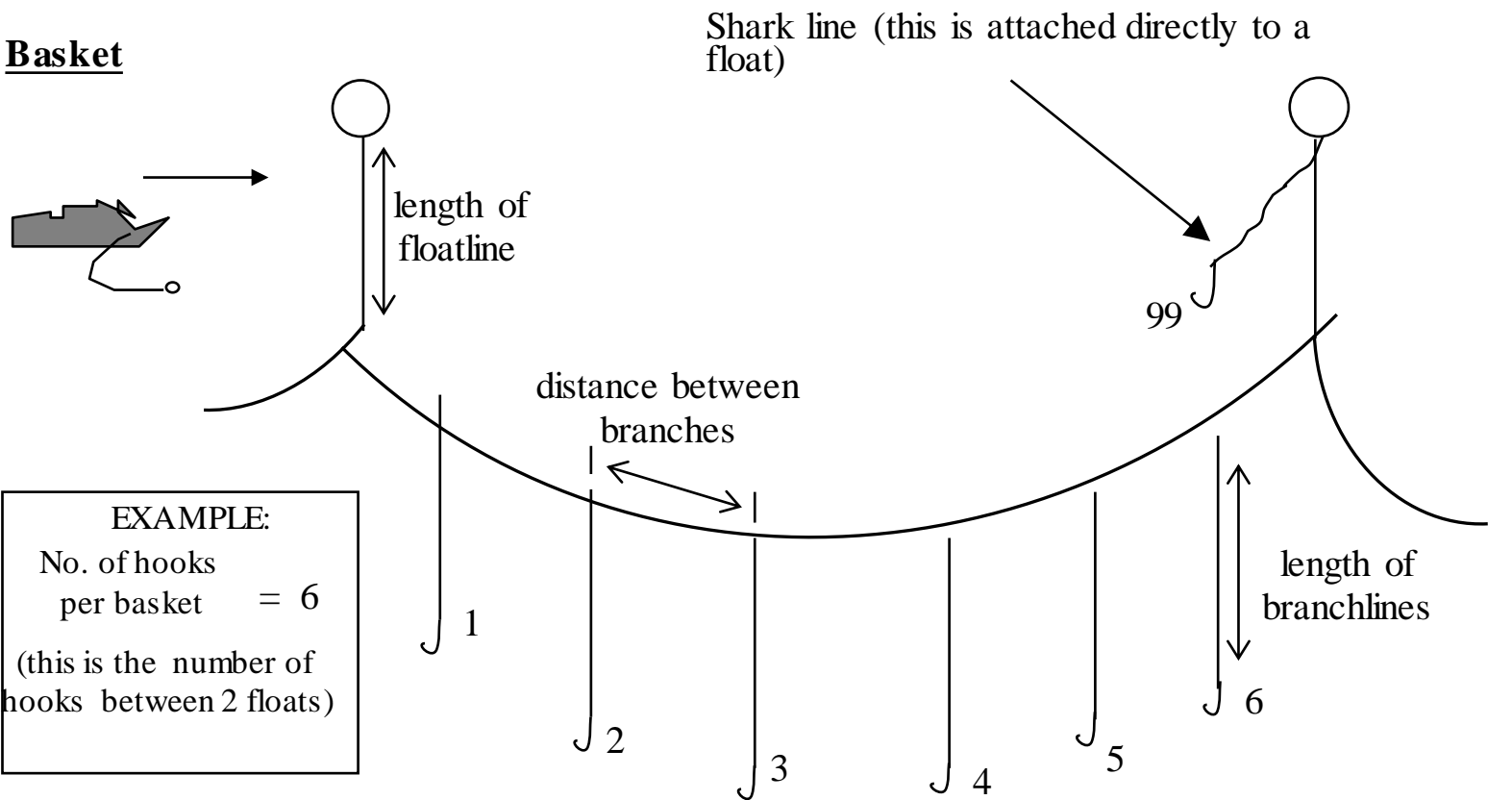
Comment if equipment is not working, not used or is used in an unusual way and describe fishing gear that is different to

equipment observed on other longliners, recording the make, model, special characteristics and usage of this new gear.

If there is lots to write about (good) write in the observer's daily journal and in the proper place in the trip report then write brief notes here but include page No.s so that others can easily find what is written in the journal and trip report.



## Basket





## SPC/FFA REGIONAL LONGLINE OBSERVER - SET and HAUL INFORMATION

FORM LL - 2 / 3

2018

OBSERVER NAME	VESSEL NAME	OBSERVER TRIP ID NUMBER	SET No.	PAGE OF
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LONGLINE SET SPECIFICATIONS						TARGET SPECIES		ALL MUST BE RECORDED	START OF SET					
No. OF HOOKS PER BASKET		LINE SETTING SPEED - m/s (only)		VESSEL SPEED FOR SETTING (kts)		('X' to indicate)			SHIP'S DATE AND TIME					
TOTAL No. OF BASKETS		BRANCHLINE SET INTERVAL (s)		SHARK LINES on floats (Hook No.99s)		TUNA			YY	M M	DD	h h	m m	
TOTAL No. OF HOOKS		BETWEEN BRANCHLINES (m)		Number.:		LENGTH (m):			SWORDFISH		UTC DATE AND TIME			
LENGTH OF FLOATLINE (m)		LENGTH OF BRANCHLINES (m)		WERE TDRs DEPLOYED ?		Y / N	OTHER - pls specify							

SET LOG	SHIP'S TIME	LATITUDE ( dd° mm.mmm' )	N S	LONGITUDE ( ddd° mm.mmm' )	E W	MITIGATION (were any of the following used for this set ? )		BAIT USED (total weight for EACH species)					
	START SET					TORI LINES - TOTAL NUMBER :		SPECIES					LIGHT STICKS
	Were all "Start" and "End" positions observed directly?				Y / N	If "N" explain in comments		(KG)					
						BIRD CURTAIN		Y / N	HOOK NOs				
						WEIGHTED LINES		Y / N	BAIT DYED BLUE	Y / N	Y / N	Y / N	Y / N
END SET						UNDERWATER SETTING CHUTE		Y / N	TOTAL NO.				

HAUL LOG	START HAUL				WAS OFFAL DISCHARGED DURING SETTING OR HAULING?		Y / N	COMMENTS - use for comments from both setting and hauling. Use lower portion for personal workings if necessary.				
					IF yes, WAS IT DISCHARGED FROM THE OPPOSITE SIDE of SETTING or HAULING?		Y / N					
					HOOK CHANGES THIS SET?		Y N	DESCRIBE CHANGES TO HOOK SIZE / HOOK TYPE this SET below.				
					UNUSUAL SET DETAILS							
END HAUL					TOTAL BASKETS OBSERVED DURING HAUL (add up the total baskets monitored from the bottom of each Form LL-4 used in this set)			DID YOU OBSERVE ANY EVENTS TO RECORD ON FORM GEN-3 TODAY ?		circle one YES NO reported in Journal pg #		

Use as many Form LL-2/3s per set and haul as necessary (usually one). N.B. (VERY IMPORTANT) - if there is a species target change part way through setting (e.g. completely different branchlines or very different setting depths are used) even if still using the same mainline, then start a new Form LL-2/3 for the different section of the set. (For clear + major changes only !)

Observer Name and Vessel Name: Always print each of these names out in full (e.g. an observer name "John Masa", and a vessel name "Hai Hsiang No. 959")

Observer Trip ID Number: Number issued by the authority you are working for. (e.g. John H. Masa, on his 3rd trip in 1996 may get Trip ID No.: "JHM 96-03").

Set No.: (for observer use only) - start at "Set No. 1", "Set No. 2", etc., all through a trip.

Page of: Number Form LL-2's through trip as Page 1, Page 2, Page 3, etc. At end of trip, check all pages are there (again). Put the last page number on every page (e.g. if 36 pages then the first page will be "Page 1 of 36", the fourth page, "Page 4 of 36" and the last page will be "Page 36 of 36").

No. of hooks per basket: See the basket diagram in bottom right for example

Total No. of Baskets, Total No. of Hooks: These are the totals for the entire set. <Total No. of Hooks> = <Total No. of Baskets> × <No. of Hooks per Basket>

Length of Floatlines (m), Length of Branchlines (m): See diagram in wxbook.

Vessel Speed (kts): Watch the GPS or speed log over several seconds to estimate average speed of vessel. Record to one decimal point (e.g. "9.7" knots).

Vessel Speed (kts): Watch the GPS or speed log over several seconds to estimate average speed of vessel. Record to one decimal point (e.g. "9.7" knots).

Line Setting Speed - m/s kts (circle one): Record only if the vessel has a line shooter - must **circle** correct "m/s" or "kts". N.B.: (m/sec = kts/2) and (length = sec × m/sec)

Branchline Set Interval (s): Recorded only from vessels with branchline timers.

Between branchlines (m): Distance between branchlines may be hand measured (in metres) or calculated by the observer using the formula:  $\text{Line Setting Speed} \times \text{Branchline Set Interval}$ , or if not available, ask fishing master etc for the distance between branchlines)

Shark lines on floats (Hook No.99s): If vessel has special lines tied directly to the floats to catch extra sharks, count the total Number used in the set. What is their usual Length (m)? N.B. Do not count a shark line on a float as one of the "hooks per basket"

Were TDRs deployed ? Y/N: Circle Y (yes) if one or more temperature depth recorders are deployed at any time during the set

Target Species - Cross the box/es next to the main species the vessel is targeting during set. It is usually just one species but it could be more than one. **N.B.** to target a species gear must be set especially to catch that species. Retained bycatch was targeted. NEW Observer can now record an 'Other -please specify' for the target species. Specify the other target species in the comments area.

Start of Set, Ship's date, Ships time, UTC date, UTC time: At the start of each set you must record the time and date that the ship's clock (and your watch) are set to, and the UTC time and date as read from the GPS. At all other times use only Ship's time. Remember UTC date can be different from the Ship's date.

Start and End of Set and Haul: Complete for every single set even if not fully monitored. The observer should read the GPS directly and must explain in "Comments" if they have not. The remaining lines in the Haul Log must be filled at approximately every hour.

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Latitude, Longitude, N, S, E, W: Record GPS positions in degrees, minutes and decimals, to three decimal places. Do not forget to enter north or south and east or west correctly

Bait Used - Species, Kg: Record species and weight (in kg) of each bait used. Bait Used - Hook Nos:

Usually, if a boat uses more than one bait species it will put the same bait on the same hook numbers (see diagram) in each basket (e.g.: squid might go on hooks 3 and 4 while sardines go on hooks 1, 2, 5 and 6). Record the hooks for each bait type "hook nos". Blue dyed bait - if bait used has been dyed blue circle "Y" for yes.

Otherwise circle "N" for no. **NEW LIGHT STICK** - Record the hook numbers any light stick were attached to, also record the total number of light sticks used in the set.

Comments: Note significant conditions that affect set strategy or cause problems - unusual wind/sea state; SSI contacts; accidents; any unexpected event. Include events from Soak Time, even if asleep but found out from crew later. Record reasons that observer monitoring stopped for 30 minutes or more. If suitable record ship's time in column next to comments.

Total Baskets Observed and Events on FORM GEN-3 - These fields must be completed.

MITIGATION: TORI POLES: High vertical pole placed at the stern, has trailing line with plastic streamers attached.

Record the total number of tori lines (attached to tori poles) used during setting. BIRD CURTAIN: Horizontal pole with vertical streamers positioned on side (+ stern side of the setting station). WEIGHTED LINES: Approx. 60 to 100g of weight placed on branchline 1-3 meters away from hook. SETTING CHUTE: Equipment that ensures the line is set below the waterline. FISH OFFAL DISCHARGE: Indicate if any fish waste (including bait) was thrown overboard at anytime during setting or hauling. If fish offal was disposed of during setting or hauling circle Y- yes if it was disposed from the opposite side of the vessel to the mainline's location during setting or hauling.

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## SPC/FFA REGIONAL LONGLINE OBSERVER - SET and HAUL INFORMATION

FORM LL - 2 / 3

2018

OBSERVER NAME	VESSEL NAME	OBSERVER TRIP ID NUMBER	SET No.	PAGE OF
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LONGLINE SET SPECIFICATIONS						TARGET SPECIES		ALL MUST BE RECORDED	START OF SET					
No. OF HOOKS PER BASKET		LINE SETTING SPEED - m/s (only)		VESSEL SPEED FOR SETTING (kts)		('X' to indicate)			SHIP'S DATE AND TIME					
TOTAL No. OF BASKETS		BRANCHLINE SET INTERVAL (s)		SHARK LINES on floats (Hook No.99s)		TUNA			YY	M M	DD	h h	m m	
TOTAL No. OF HOOKS		BETWEEN BRANCHLINES (m)		Number.:		LENGTH (m):			SWORDFISH		UTC DATE AND TIME			
LENGTH OF FLOATLINE (m)		LENGTH OF BRANCHLINES (m)		WERE TDRs DEPLOYED ?		Y / N	OTHER - pls specify							

SET LOG	SHIP'S TIME	LATITUDE ( dd° mm.mmm' )	N S	LONGITUDE ( ddd° mm.mmm' )	E W	MITIGATION (were any of the following used for this set ? )		BAIT USED (total weight for EACH species)					
	START SET					TORI LINES - TOTAL NUMBER :		SPECIES					LIGHT STICKS
	Were all "Start" and "End" positions observed directly?					Y / N	If "N" explain in comments	(KG)					
							BIRD CURTAIN	Y / N	HOOK NOs				
							WEIGHTED LINES	Y / N	BAIT DYED BLUE	Y / N	Y / N	Y / N	Y / N
END SET						UNDERWATER SETTING CHUTE		Y / N					

HAUL LOG	START HAUL				WAS OFFAL DISCHARGED DURING SETTING OR HAULING?		Y / N	COMMENTS - use for comments from both setting and hauling. Use lower portion for personal workings if necessary.					
					IF yes, WAS IT DISCHARGED FROM THE OPPOSITE SIDE of SETTING or HAULING?		Y / N						
						HOOK CHANGES THIS SET?	Y N	DESCRIBE CHANGES TO HOOK SIZE / HOOK TYPE this SET below.					
					UNUSUAL SET DETAILS								
END HAUL					TOTAL BASKETS OBSERVED DURING HAUL (add up the total baskets monitored from the bottom of each Form LL-4 used in this set)			DID YOU OBSERVE ANY EVENTS TO RECORD ON FORM GEN-3 TODAY ?		circle one YES NO reported in Journal pg #			

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Observer Name and Vessel Name: Always print each of these names out in full (e.g. an observer name "John Masa", and a vessel name "Hai Hsiang No. 959")

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No. of hooks per basket: See the basket diagram in bottom right for example

Total No. of Baskets, Total No. of Hooks: These are the totals for the entire set. <Total No. of Hooks> = <Total No. of Baskets> × <No. of Hooks per Basket>

Length of Floatlines (m), Length of Branchlines (m): See diagram in wxbook.

Vessel Speed (kts): Watch the GPS or speed log over several seconds to estimate average speed of vessel. Record to one decimal point (e.g. "9.7" knots).

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Branchline Set Interval (s): Recorded only from vessels with branchline timers.

Between branchlines (m): Distance between branchlines may be hand measured (in metres) or calculated by the observer using the formula:  $\text{Line Setting Speed} \times \text{Branchline Set Interval}$ , or if not available, ask fishing master etc for the distance between branchlines)

Shark lines on floats (Hook No.99s): If vessel has special lines tied directly to the floats to catch extra sharks, count the total Number used in the set. What is their usual Length (m)? N.B. Do not count a shark line on a float as one of the "hooks per basket"

Were TDRs deployed ? Y/N: Circle Y (yes) if one or more temperature depth recorders are deployed at any time during the set

Target Species - Cross the box/es next to the main species the vessel is targeting during set. It is usually just one species but it could be more than one. **N.B.** to target a species gear must be set especially to catch that species. Retained bycatch was targeted. NEW Observer can now record an 'Other -please specify' for the target species. Specify the other target species in the comments area.

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## SPC/FFA REGIONAL LONGLINE OBSERVER - SET and HAUL INFORMATION

FORM LL - 2 / 3

2018

OBSERVER NAME	VESSEL NAME	OBSERVER TRIP ID NUMBER	SET No.	PAGE OF
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LONGLINE SET SPECIFICATIONS						TARGET SPECIES		ALL MUST BE RECORDED	START OF SET					
No. OF HOOKS PER BASKET		LINE SETTING SPEED - m/s (only)		VESSEL SPEED FOR SETTING (kts)		('X' to indicate)			SHIP'S DATE AND TIME					
TOTAL No. OF BASKETS		BRANCHLINE SET INTERVAL (s)		SHARK LINES on floats (Hook No.99s)		TUNA			YY	M M	DD	h h	m m	
TOTAL No. OF HOOKS		BETWEEN BRANCHLINES (m)		Number.:		LENGTH (m):			SWORDFISH		UTC DATE AND TIME			
LENGTH OF FLOATLINE (m)		LENGTH OF BRANCHLINES (m)		WERE TDRs DEPLOYED ?		Y / N	OTHER - pls specify							

SET LOG	SHIP'S TIME	LATITUDE ( dd° mm.mmm' )	N S	LONGITUDE ( ddd° mm.mmm' )	E W	MITIGATION (were any of the following used for this set ? )	BAIT USED (total weight for EACH species)						
	START SET					TORI LINES - TOTAL NUMBER :	SPECIES					LIGHT STICKS	
	Were all "Start" and "End" positions observed directly?					Y / N	If "N" explain in comments	(KG)					
						BIRD CURTAIN	Y / N	HOOK NOs					
						WEIGHTED LINES	Y / N	BAIT DYED BLUE	Y / N	Y / N	Y / N	Y / N	TOTAL NO.
END SET						UNDERWATER SETTING CHUTE	Y / N						

HAUL LOG	START HAUL				WAS OFFAL DISCHARGED DURING SETTING OR HAULING?	Y / N	COMMENTS - use for comments from both setting and hauling. Use lower portion for personal workings if necessary.				
					IF yes, WAS IT DISCHARGED FROM THE OPPOSITE SIDE of SETTING or HAULING?	Y / N					
					HOOK CHANGES THIS SET?	Y N	DESCRIBE CHANGES TO HOOK SIZE / HOOK TYPE this SET below.				
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FORM LL - 2 / 3

2018

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FORM LL - 2 / 3

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OBSERVER NAME	VESSEL NAME	OBSERVER TRIP ID NUMBER	SET No.	PAGE OF
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LONGLINE SET SPECIFICATIONS						TARGET SPECIES		ALL MUST BE RECORDED	START OF SET					
No. OF HOOKS PER BASKET		LINE SETTING SPEED - m/s (only)		VESSEL SPEED FOR SETTING (kts)		('X' to indicate)			SHIP'S DATE AND TIME					
TOTAL No. OF BASKETS		BRANCHLINE SET INTERVAL (s)		SHARK LINES on floats (Hook No.99s)		TUNA			YY	M M	DD	h h	m m	
TOTAL No. OF HOOKS		BETWEEN BRANCHLINES (m)		Number.:		LENGTH (m):			SWORDFISH		UTC DATE AND TIME			
LENGTH OF FLOATLINE (m)		LENGTH OF BRANCHLINES (m)		WERE TDRs DEPLOYED ?		Y / N	OTHER - pls specify							

SET LOG	SHIP'S TIME	LATITUDE ( dd° mm.mmm' )	N S	LONGITUDE ( ddd° mm.mmm' )	E W	MITIGATION (were any of the following used for this set ? )		BAIT USED (total weight for EACH species)					
	START SET					TORI LINES - TOTAL NUMBER :		SPECIES					LIGHT STICKS
	Were all "Start" and "End" positions observed directly?				Y / N	If "N" explain in comments		(KG)					
						BIRD CURTAIN		Y / N	HOOK NOs				
						WEIGHTED LINES		Y / N	BAIT DYED BLUE	Y / N	Y / N	Y / N	Y / N
END SET						UNDERWATER SETTING CHUTE		Y / N	TOTAL NO.				

HAUL LOG	START HAUL				WAS OFFAL DISCHARGED DURING SETTING OR HAULING?	Y / N	COMMENTS - use for comments from both setting and hauling. Use lower portion for personal workings if necessary.				
					IF yes, WAS IT DISCHARGED FROM THE OPPOSITE SIDE of SETTING or HAULING?	Y / N					
					HOOK CHANGES THIS SET?	Y N	DESCRIBE CHANGES TO HOOK SIZE / HOOK TYPE this SET below.				
					UNUSUAL SET DETAILS						
END HAUL					TOTAL BASKETS OBSERVED DURING HAUL (add up the total baskets monitored from the bottom of each Form LL-4 used in this set)			DID YOU OBSERVE ANY EVENTS TO RECORD ON FORM GEN-3 TODAY ?		circle one YES NO reported in Journal pg #	

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Vessel Speed (kts): Watch the GPS or speed log over several seconds to estimate average speed of vessel. Record to one decimal point (e.g. "9.7" knots).

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Branchline Set Interval (s): Recorded only from vessels with branchline timers.

Between branchlines (m): Distance between branchlines may be hand measured (in metres) or calculated by the observer using the formula:  $\text{Line Setting Speed} \times \text{Branchline Set Interval}$ , or if not available, ask fishing master etc for the distance between branchlines)

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Target Species - Cross the box/es next to the main species the vessel is targeting during set. It is usually just one species but it could be more than one. **N.B.** to target a species gear must be set especially to catch that species. Retained bycatch was targeted. NEW Observer can now record an 'Other -please specify' for the target species. Specify the other target species in the comments area.

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Bait Used - Species, Kg: Record species and weight (in kg) of each bait used. Bait Used - Hook Nos:

Usually, if a boat uses more than one bait species it will put the same bait on the same hook numbers (see diagram) in each basket (e.g.: squid might go on hooks 3 and 4 while sardines go on hooks 1, 2, 5 and 6). Record the hooks for each bait type "hook nos". Blue dyed bait - if bait used has been dyed blue circle "Y" for yes.

Otherwise circle "N" for no. **NEW LIGHT STICK** - Record the hook numbers any light stick were attached to, also record the total number of light sticks used in the set.

Comments: Note significant conditions that affect set strategy or cause problems - unusual wind/sea state; SSI contacts; accidents; any unexpected event. Include events from Soak Time, even if asleep but found out from crew later. Record reasons that observer monitoring stopped for 30 minutes or more. If suitable record ship's time in column next to comments.

Total Baskets Observed and Events on FORM GEN-3 - These fields must be completed.

MITIGATION: TORI POLES: High vertical pole placed at the stern, has trailing line with plastic streamers attached.

Record the total number of tori lines (attached to tori poles) used during setting. BIRD CURTAIN: Horizontal pole with vertical streamers positioned on side (+ stern side of the setting station). WEIGHTED LINES: Approx. 60 to 100g of weight placed on branchline 1-3 meters away from hook. SETTING CHUTE: Equipment that ensures the line is set below the waterline. FISH OFFAL DISCHARGE: Indicate if any fish waste (including bait) was thrown overboard at anytime during setting or hauling. If fish offal was disposed of during setting or hauling circle Y- yes if it was disposed from the opposite side of the vessel to the mainline's location during setting or hauling.

**NEW HOOK CHANGES THIS SET** - If the hooks are *deliberately* changed before the set to a *bigger size of hook*, or a *different type of hook* record yes. add some notes on the change to the data field below. 'Unusual Set Details:' The information recorded in the "Longline Set Specifications" fields represents the most common or average data during setting. If the setting specifications are deliberately or intentionally changed at some point during the setting, then note these changes in the "Unusual Set Details" area. For instance, if the number of hooks between baskets is always 30, and then the Captain deliberately reduces the number to 15 (to get a shallower line), then record 30 in the standard 'no. of hooks per basket' data field and write "Captain reduced no. of hooks per basket to 15 for the last 10 baskets" in the unusual set details area. Do not write general comments about setting in this area.

## SPC/FFA REGIONAL LONGLINE OBSERVER - SET and HAUL INFORMATION

FORM LL - 2 / 3

2018

OBSERVER NAME	VESSEL NAME	OBSERVER TRIP ID NUMBER	SET No.	PAGE OF
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TOTAL No. OF BASKETS		BRANCHLINE SET INTERVAL (s)		SHARK LINES on floats (Hook No.99s)		TUNA			YY	M M	DD	h h	m m	
TOTAL No. OF HOOKS		BETWEEN BRANCHLINES (m)		Number.:		LENGTH (m):			SWORDFISH		UTC DATE AND TIME			
LENGTH OF FLOATLINE (m)		LENGTH OF BRANCHLINES (m)		WERE TDRs DEPLOYED ?		Y / N	OTHER - pls specify							

SET LOG	SHIP'S TIME	LATITUDE ( dd° mm.mmm' )	N S	LONGITUDE ( ddd° mm.mmm' )	E W	MITIGATION (were any of the following used for this set ? )		BAIT USED (total weight for EACH species)					
	START SET					TORI LINES - TOTAL NUMBER :		SPECIES					LIGHT STICKS
	Were all "Start" and "End" positions observed directly?				Y / N	If "N" explain in comments		(KG)					
						BIRD CURTAIN		Y / N	HOOK NOs				
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HAUL LOG	START HAUL				WAS OFFAL DISCHARGED DURING SETTING OR HAULING?		Y / N	COMMENTS - use for comments from both setting and hauling. Use lower portion for personal workings if necessary.				
					IF yes, WAS IT DISCHARGED FROM THE OPPOSITE SIDE of SETTING or HAULING?		Y / N					
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## SPC/FFA REGIONAL LONGLINE OBSERVER - SET and HAUL INFORMATION

FORM LL - 2 / 3

2018

OBSERVER NAME	VESSEL NAME	OBSERVER TRIP ID NUMBER	SET No.	PAGE OF
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FORM LL - 2 / 3

2018

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## SPC/FFA REGIONAL LONGLINE OBSERVER - SET and HAUL INFORMATION

FORM LL - 2 / 3

2018

OBSERVER NAME	VESSEL NAME	OBSERVER TRIP ID NUMBER	SET No.	PAGE OF
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LONGLINE SET SPECIFICATIONS						TARGET SPECIES		ALL MUST BE RECORDED	START OF SET					
No. OF HOOKS PER BASKET		LINE SETTING SPEED - m/s (only)		VESSEL SPEED FOR SETTING (kts)		('X' to indicate)			SHIP'S DATE AND TIME					
TOTAL No. OF BASKETS		BRANCHLINE SET INTERVAL (s)		SHARK LINES on floats (Hook No.99s)		TUNA			YY	M M	DD	h h	m m	
TOTAL No. OF HOOKS		BETWEEN BRANCHLINES (m)		Number.:		LENGTH (m):			SWORDFISH		UTC DATE AND TIME			
LENGTH OF FLOATLINE (m)		LENGTH OF BRANCHLINES (m)		WERE TDRs DEPLOYED ?		Y / N	OTHER - pls specify							

SET LOG	SHIP'S TIME	LATITUDE ( dd° mm.mmm' )	N S	LONGITUDE ( ddd° mm.mmm' )	E W	MITIGATION (were any of the following used for this set ? )		BAIT USED (total weight for EACH species)					
	START SET					TORI LINES - TOTAL NUMBER :		SPECIES					LIGHT STICKS
	Were all "Start" and "End" positions observed directly?					Y / N	If "N" explain in comments	(KG)					
							BIRD CURTAIN	Y / N	HOOK NOs				
							WEIGHTED LINES	Y / N	BAIT DYED BLUE	Y / N	Y / N	Y / N	Y / N
END SET						UNDERWATER SETTING CHUTE		Y / N					

HAUL LOG	START HAUL				WAS OFFAL DISCHARGED DURING SETTING OR HAULING?		Y / N	COMMENTS - use for comments from both setting and hauling. Use lower portion for personal workings if necessary.					
					IF yes, WAS IT DISCHARGED FROM THE OPPOSITE SIDE of SETTING or HAULING?		Y / N						
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FORM LL - 2 / 3

2018

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						BIRD CURTAIN		Y / N	HOOK NOs				
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FORM LL - 2 / 3

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## SPC/FFA REGIONAL LONGLINE OBSERVER - SET and HAUL INFORMATION

FORM LL - 2 / 3

2018

OBSERVER NAME	VESSEL NAME	OBSERVER TRIP ID NUMBER	SET No.	PAGE OF
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LONGLINE SET SPECIFICATIONS						TARGET SPECIES		ALL MUST BE RECORDED	START OF SET					
No. OF HOOKS PER BASKET		LINE SETTING SPEED - m/s (only)		VESSEL SPEED FOR SETTING (kts)		('X' to indicate)			SHIP'S DATE AND TIME					
TOTAL No. OF BASKETS		BRANCHLINE SET INTERVAL (s)		SHARK LINES on floats (Hook No.99s)		TUNA			YY	M M	DD	h h	m m	
TOTAL No. OF HOOKS		BETWEEN BRANCHLINES (m)		Number.:		LENGTH (m):			SWORDFISH		UTC DATE AND TIME			
LENGTH OF FLOATLINE (m)		LENGTH OF BRANCHLINES (m)		WERE TDRs DEPLOYED ?		Y / N	OTHER - pls specify							

SET LOG	SHIP'S TIME	LATITUDE ( dd° mm.mmm' )	N S	LONGITUDE ( ddd° mm.mmm' )	E W	MITIGATION (were any of the following used for this set ? )		BAIT USED (total weight for EACH species)					
	START SET					TORI LINES - TOTAL NUMBER :		SPECIES					LIGHT STICKS
	Were all "Start" and "End" positions observed directly?					Y / N	If "N" explain in comments	(KG)					
							BIRD CURTAIN	Y / N	HOOK NOs				
							WEIGHTED LINES	Y / N	BAIT DYED BLUE	Y / N	Y / N	Y / N	Y / N
END SET						UNDERWATER SETTING CHUTE		Y / N					

HAUL LOG	START HAUL				WAS OFFAL DISCHARGED DURING SETTING OR HAULING?		Y / N	COMMENTS - use for comments from both setting and hauling. Use lower portion for personal workings if necessary.					
					IF yes, WAS IT DISCHARGED FROM THE OPPOSITE SIDE of SETTING or HAULING?		Y / N						
						HOOK CHANGES THIS SET?		Y N	DESCRIBE CHANGES TO HOOK SIZE / HOOK TYPE this SET below.				
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FORM LL - 2 / 3

2018

OBSERVER NAME	VESSEL NAME	OBSERVER TRIP ID NUMBER	SET No.	PAGE OF
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	Were all "Start" and "End" positions observed directly?					Y / N	If "N" explain in comments	(KG)					
							BIRD CURTAIN	Y / N	HOOK NOs				
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HAUL LOG	START HAUL				WAS OFFAL DISCHARGED DURING SETTING OR HAULING?		Y / N	COMMENTS - use for comments from both setting and hauling. Use lower portion for personal workings if necessary.					
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FORM LL - 2 / 3

2018

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Comments: Note significant conditions that affect set strategy or cause problems - unusual wind/sea state; SSI contacts; accidents; any unexpected event. Include events from Soak Time, even if asleep but found out from crew later. Record reasons that observer monitoring stopped for 30 minutes or more. If suitable record ship's time in column next to comments.

Total Baskets Observed and Events on FORM GEN-3 - These fields must be completed.

MITIGATION: TORI POLES: High vertical pole placed at the stern, has trailing line with plastic streamers attached.

Record the total number of tori lines (attached to tori poles) used during setting. BIRD CURTAIN: Horizontal pole with vertical streamers positioned on side (+ stern side of the setting station). WEIGHTED LINES: Approx. 60 to 100g of weight placed on branchline 1-3 meters away from hook. SETTING CHUTE: Equipment that ensures the line is set below the waterline. FISH OFFAL DISCHARGE: Indicate if any fish waste (including bait) was thrown overboard at anytime during setting or hauling. If fish offal was disposed of during setting or hauling circle Y- yes if it was disposed from the opposite side of the vessel to the mainline's location during setting or hauling.

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## SPC/FFA REGIONAL LONGLINE OBSERVER - SET and HAUL INFORMATION

FORM LL - 2 / 3

2018

OBSERVER NAME	VESSEL NAME	OBSERVER TRIP ID NUMBER	SET No.	PAGE OF
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LONGLINE SET SPECIFICATIONS						TARGET SPECIES		ALL MUST BE RECORDED	START OF SET					
No. OF HOOKS PER BASKET		LINE SETTING SPEED - m/s (only)		VESSEL SPEED FOR SETTING (kts)		('X' to indicate)			SHIP'S DATE AND TIME					
TOTAL No. OF BASKETS		BRANCHLINE SET INTERVAL (s)		SHARK LINES on floats (Hook No.99s)		TUNA			YY	M M	DD	h h	m m	
TOTAL No. OF HOOKS		BETWEEN BRANCHLINES (m)		Number.:		LENGTH (m):			SWORDFISH		UTC DATE AND TIME			
LENGTH OF FLOATLINE (m)		LENGTH OF BRANCHLINES (m)		WERE TDRs DEPLOYED ?		Y / N	OTHER - pls specify							

SET LOG	SHIP'S TIME	LATITUDE ( dd° mm.mmm' )	N S	LONGITUDE ( ddd° mm.mmm' )	E W	MITIGATION (were any of the following used for this set ? )	BAIT USED (total weight for EACH species)					
	START SET					TORI LINES - TOTAL NUMBER :	SPECIES					LIGHT STICKS
	Were all "Start" and "End" positions observed directly? Y / N If "N" explain in comments					BIRD CURTAIN	Y / N	(KG)				
						WEIGHTED LINES	Y / N	HOOK NOs				
	END SET					UNDERWATER SETTING CHUTE	Y / N	BAIT DYED BLUE	Y / N	Y / N	Y / N	Y / N

HAUL LOG	START HAUL				WAS OFFAL DISCHARGED DURING SETTING OR HAULING?	Y / N	COMMENTS - use for comments from both setting and hauling. Use lower portion for personal workings if necessary.				
					IF yes, WAS IT DISCHARGED FROM THE OPPOSITE SIDE of SETTING or HAULING?	Y / N					
					HOOK CHANGES THIS SET?	Y N	DESCRIBE CHANGES TO HOOK SIZE / HOOK TYPE this SET below.				
					UNUSUAL SET DETAILS						
END HAUL					TOTAL BASKETS OBSERVED DURING HAUL (add up the total baskets monitored from the bottom of each Form LL-4 used in this set)			DID YOU OBSERVE ANY EVENTS TO RECORD ON FORM GEN-3 TODAY ?		circle one YES NO reported in Journal pg #	

Use as many Form LL-2/3s per set and haul as necessary (usually one). N.B. (VERY IMPORTANT) - if there is a species target change part way through setting (e.g. completely different branchlines or very different setting depths are used) even if still using the same mainline, then start a new Form LL-2/3 for the different section of the set. (For clear + major changes only !)

Observer Name and Vessel Name: Always print each of these names out in full (e.g. an observer name "John Masa", and a vessel name "Hai Hsiang No. 959")

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No. of hooks per basket: See the basket diagram in bottom right for example

Total No. of Baskets, Total No. of Hooks: These are the totals for the entire set. <Total No. of Hooks> = <Total No. of Baskets> × <No. of Hooks per Basket>

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Vessel Speed (kts): Watch the GPS or speed log over several seconds to estimate average speed of vessel. Record to one decimal point (e.g. "9.7" knots).

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Were TDRs deployed ? Y/N: Circle Y (yes) if one or more temperature depth recorders are deployed at any time during the set

Target Species - Cross the box/es next to the main species the vessel is targeting during set. It is usually just one species but it could be more than one. **N.B.** to target a species gear must be set especially to catch that species. Retained bycatch was targeted. NEW Observer can now record an 'Other -please specify' for the target species. Specify the other target species in the comments area.

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Bait Used - Species, Kg: Record species and weight (in kg) of each bait used. Bait Used - Hook Nos: Usually, if a boat uses more than one bait species it will put the same bait on the same hook numbers (see diagram) in each basket (e.g.: squid might go on hooks 3 and 4 while sardines go on hooks 1, 2, 5 and 6). Record the hooks for each bait type "hook nos". Blue dyed bait - if bait used has been dyed blue circle "Y" for yes. Otherwise circle "N" for no. **NEW LIGHT STICK** - Record the hook numbers any light stick were attached to, also record the total number of light sticks used in the set.

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## SPC/FFA REGIONAL LONGLINE OBSERVER - SET and HAUL INFORMATION

FORM LL - 2 / 3

2018

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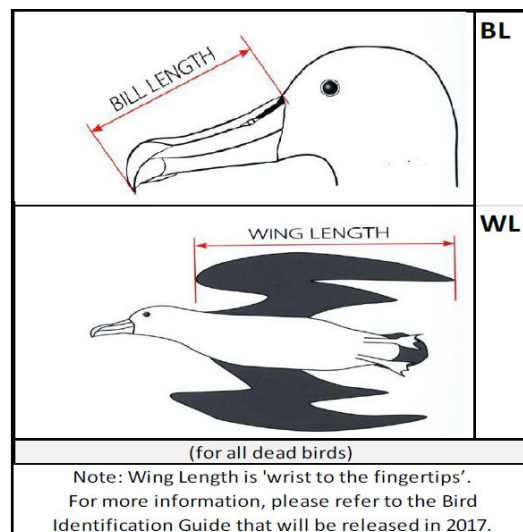
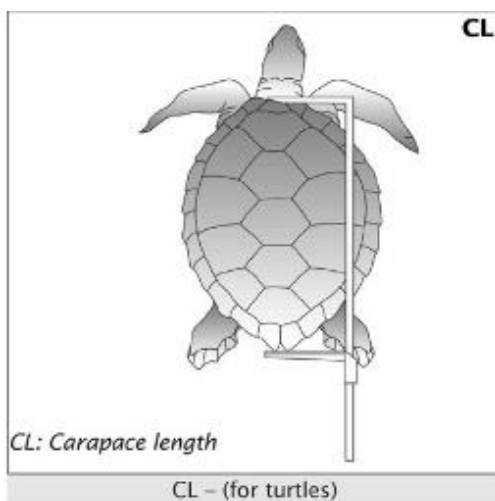
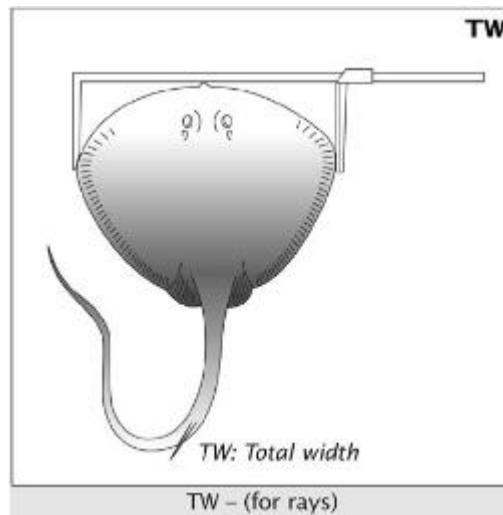
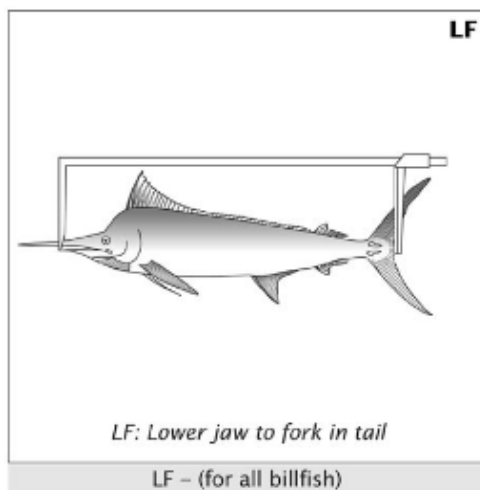
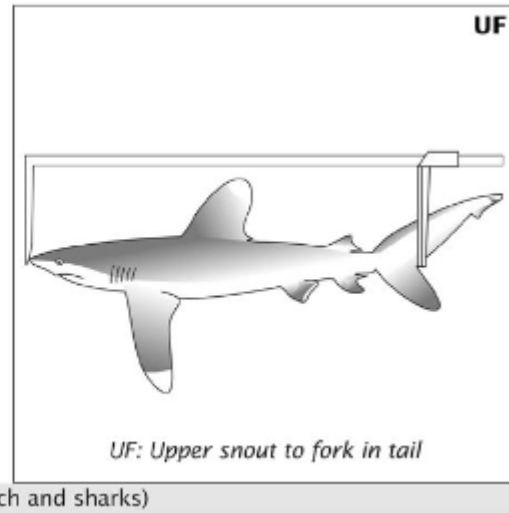
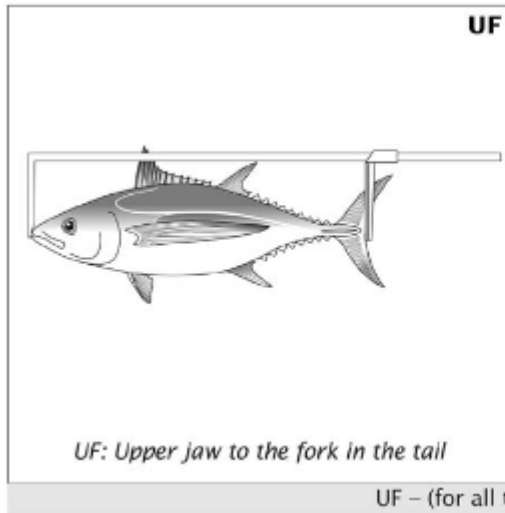
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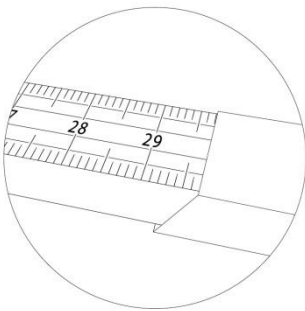
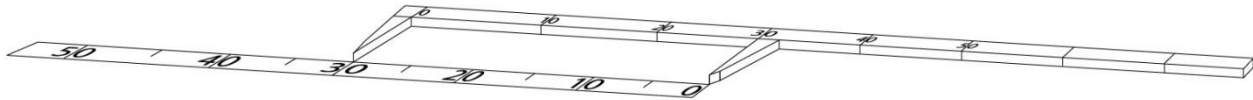
## Longline Length Measurements

*These are the best measurements to do on-board a longline vessel.*

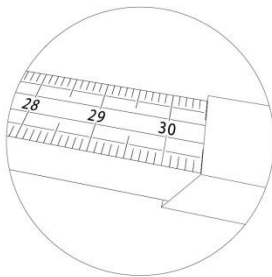


## CALIBRATING CALLIPERS

Observers are asked to calibrate their callipers before every set. This can be done by marking a known length on the deck. For instance, use the ruler of the calliper (not the calliper itself) to mark out 30 cm on the deck with a pen etc. Take time to do this properly, then measure that known length with the calliper. Or as the drawing shows, measure a known length on a deck tape. Remember not to use a tape measure made from material as these can stretch in wet conditions.



The true length is 30cm. The calliper is incorrectly reading 29.7 cm. The calibration should be recorded as minus 3 mms.



The true length is 30cm. The calliper is incorrectly reading 30.5 cm. The calibration should be recorded as plus 5 mms.

**CODES PAGE**  
LONGLINE OBSERVER WORKBOOK

Think about tearing out  
this page to help you fill in  
your forms,

**ISO (alpha 2) Country Codes**

AS	American Samoa
AU	Australia
BZ	Belize
CK	Cook Islands
CA	Canada
EC	Ecuador
SV	El Salvador
FM	Fed. States of Micronesia
FJ	Fiji Islands
FR	France
PF	French Polynesia
GU	Guam
ID	Indonesia
IW	International Waters
JP	Japan
TO	Kingdom of Tonga
KI	Kiribati
KR	Korea
LT	Lithuania
CN	Mainland China
MY	Malaysia
MT	Malta
MH	Marshall Islands
NR	Nauru
NL	Netherlands
NZ	New Zealand
NC	New Caledonia
NU	Niue
MR	Northern Marianas
PW	Palau
PA	Panama
PG	Papua New Guinea
PH	Philippines
RU	Russia
SB	Solomon Islands
TK	Tokelau
TV	Tuvalu
TW	Chinese Taipei (Taiwan)
US	United States
VU	Vanuatu
WF	Wallis and Futuna
WS	Samoa

## SPECIES OF SPECIAL INTEREST CODES

<b>SSI</b>	<b>ALL SPECIES OF SPECIAL INTEREST</b>
<b>TTX</b>	<b>All Turtles</b>
TTL	Loggerhead Turtle
LTB	Leatherback Turtle
TUG	Green Turtle
LKV	Olive Ridley Turtle
TTH	Hawksbill Turtle
KEZ	Eastern Pacific Green Turtle (black turtle)
FBT	Flatback turtle

<b>MAM</b>	<b>All Marine Mammals</b>
<b>ODN</b>	<b>Toothed Whales</b>
FAW	False Killer Whale
SHW	Short-Finned Pilot Whale
SPW	Sperm Whale
KPW	Pygmy Killer Whale
DWW	Dwarf sperm whale
BCW	Cuvier's Beaked Whale
BBW	Blainville's Beaked Whale
MEW	Melon-headed Whale

<b>SHK</b>	<b>All Sharks</b>
RHN	Whale Shark
OCS	Oceanic White-tip Shark
FAL	Silky Shark

### **RMV – Mobula spp.**

RMA	Reef Manta
RMB	Giant Manta
RMT	Chilean Devilray
RMM	Giant Devilray
RMO	Bentfin Devilray
RMK	Shortfin Devilray

<b>DLP</b>	<b>All Dolphins</b>
DBO	Bottlenose Dolphin
DCO	Common Dolphin (short-beaked)
DRR	Risso's Dolphin
DSI	Spinner Dolphin
DPN	Spotted Dolphin
DST	Stiped Dolphin
RTD	Rough-toothed Dolphin

<b>BIZ</b>	<b>All birds</b>
DKN	Black-footed albatross
DIZ	Laysan albatross
ALZ	Albatrosses
SZV	Boobies and Gannets
PRX	Petrels and Shearwaters
LRD	Gulls, Terns, Skuas

### **GEAR INTERACTION CODES**

IEN	Entangled (in gear)
IJO	Jumped out (net closed)
ICR	Crew released from net
IBR	Broke through net
IHE	Hooked internally (mouth)
IDJ	Hooked in jaw (circle hook)
IHD	Hooked deeply - throat or stomach
IHU	Hooked unknown
OTH	Other, please specify

### **VESSEL INTERACTION CODES**

IBV	Interaction, beside vessel
ION	Interaction, outside net
ICF	Interaction, crew feeding
IWF	Interaction, with FADs, but not set on
IDW	Interaction, dead in water
ICV	Interaction, collision with vessel
ICP	Interaction, collision with propeller
ICT	Interaction, collision with tori line
FRB	Interaction, feeding on bait during set
IFO	Interaction, feeding on discarded offal
IRE	Interaction, resting on vessel, floats or FADs(birds)
OTH	Interaction- other, please specify

### **SIGHTINGS CODES**

SDS	Sighting - Distance Swimming
SBR	Sighting - Breaching
STP	Sighting - Tail slapping or playing
SMG	Sighting - Motionless in group
SDW	Sighting - Dead in Water
SBO	Sighting - Bird overhead
OTH	Sighting - Other, please specify

REV. 2018

OBSERVER NAME	VESSEL NAME	OBSERVER TRIP ID NUMBER	PAGE OF
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VESEL OR AIRCRAFT SIGHTINGS

	SHIP'S TIME		OBSERVER'S VESSEL POSITION				SIGHTED VESSEL OR AIRCRAFT				COMPASS BEARING	DISTANCE	ACTION CODE	PHOTO	COMMENTS
	DATE	TIME	LATITUDE	N	LONGITUDE	E	NAME	INTERNATIONAL	FLAG	TYPE	BEARING	(Nautical	CODE	FRAME #	
	(MMDD)	(hh mm)	(dd° mm.mmm')	S	(ddd° mm.mmm')	W		CALLSIGN		CODE	(degrees)	Miles)	(seen vess)		
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															

FISH TRANSFERRING, FISH DUMPING, BUNKERING by OBSERVER'S VESSEL

	SHIP'S TIME		OBSERVER'S VESSEL POSITION				OTHER VESSEL				FISH TRANSFERRED (circle units)				ACTION CODE	COMMENTS
	DATE	TIME	LATITUDE	N	LONGITUDE	E	NAME	INTERNATIONAL	FLAG	TYPE	SKJ	YFT	BET		CODE	
	(MMDD)	(hh mm)	(dd° mm.mmm')	S	(ddd° mm.mmm')	W		CALLSIGN		CODE	WGT. NO.	WGT. NO.	WGT. NO.	WGT. NO.	(host vess)	
1																
2																
3																

<b>VESEL AND AIRCRAFT TYPE CODES</b> 1 SINGLE PURSE SEINE 2 LONGLINE 3 POLE AND LINE 4 MOTHERSHIP 5 TROLL 6 NET BOAT 7 BUNKER  8 SEARCH, ANCHOR OR LIGHT BOAT 9 FISH CARRIER 10 TRAWLER  21 LIGHT AIRCRAFT 22 HELICOPTER  31 OTHER - please specify: .....	<b>FLAG COUNTRY CODES</b> • IF COUNTRY IS NOT IN LIST WRITE NAME OF COUNTRY  CN CHINA JP JAPAN TW TAIWAN KR KOREA  US USA PH PHILLIPINES PA PANAMA HN HONDURAS  BZ BELIZE RU RUSSIA SG SINGAPORE LK SRI LANKA VU VANUATU	<b>ACTION CODES</b> • FISHING INCLUDES ANY FISHING RELATED ACTIVITY NOT OTHERWISE COVERED HERE  FI FISHING PF POSSIBLY FISHING NF NOT FISHING DF DUMPING FISH  <b>RECEIVING</b> TR TRANSHIPPING FISH SR SET SHARING BR BUNKERING  OR OTHER ...specify...  <b>ALL WEIGHTS MUST BE METRIC TONNES</b>  <b>GIVING</b> TG TRANSHIPPING FISH .... (from hold in one boat to hold in other) SG SET SHARING..... (from one boat's net to another boat's hold) BG BUNKERING  OG OTHER .....
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Sighting vessels is a very important surveillance role of observers. If vessels are seen that could possibly be fishing illegally, record as much detail as possible. Don't hesitate to contact the "Observer Co-ordinator" at FFA or your local fishery division, by telex, fax or email, immediately you see such activity. Include all information about the vessel and its activities.

An example of the format to use when reporting a sighting to FFA is at the bottom of this page. Please follow the format, and add any other comments at the end of the message.

Observer Name	Put first name first and last name last. Print name in full.
Vessel Name	Put vessel's full name. Names <u>must not</u> be abbreviated.
Observer Trip ID	Same on all Forms - issued to observer before leaving port.
Page of	If there is more than one page for the trip, number each page.

#### SIGHTED VESSEL OR AIRCRAFT

Be as thorough as you possibly can when filling this section of the form. Any small piece of information can assist in identifying the vessel. This is especially important if you can not see the name or call sign. If you can not get some information because it is not visible or impossible to work out, put a dash in the data field.

Date/Time	Ship's date / time at start of sighting or transfer activity (dd/mm/yy hh:mm)
Latitude dd°mm.mmm'	Take positions from the GPS.
Longitude ddd°mm.mmm'	Record in degrees (2 digits for latitude and 3 for longitude), minutes and to 3 decimal place fractions of minutes
N S & E W	It is very important to record if latitude is North or South of the equator by writing "N" or "S" beside the position. Also be sure to note longitude as East or West of the 180° line. These can also be confirmed on the GPS.
Name (of sighted vessel)	If possible name the vessel you sighted. If you can't see the name properly, try to get a few of the letters from the name.
International Call-sign	If possible get any call signs or numbers that are visible.
Flag	Try to find out the flag country - often written on stern.
Type Code	"Vessel and aircraft <b>type codes</b> " are on front of Form. E.g.: purse -seiner = 1; longliner = 2; etc.
Compass bearing (degrees) and Distance (nautical miles)	Check compass and radar for a bearing and an exact distance from the observer's vessel to the other vessel. Estimate the distance if the radar is not available.
Action Code (seen vess)	In this section the "action code" describes the activity the sighted (seen) vessel is involved in when it was observed. If unsure of the best code, describe the activity in "comments".
Photo Frame #	If taking a photo, record the camera's photo frame number.
Comments	Comments about the sighted vessel or aircraft that have not been covered on the form. (E.g., distinguishing features such as colour, hull design or shape, bridge position, etc.). Be as thorough as possible as this will help identify the vessel later, especially if you can not get a name or call-sign.

#### FISH TRANSFERRING, FISH DUMPING, BUNKERING by OBSERVER'S VESSEL

Other vessel name		Name of any other vessel that is involved in a transfer operation with the observer's vessel.
International callsign		The call-sign that should be visibly painted on the other vessel
Type Code		Use the "Vessel and aircraft <b>type codes</b> " on front of this form to describe what type of vessel is receiving the fish.
FISH TRANSFERRED	SkipJack Weight	Total Weight of Skipjack that has been transferred
	Yellowfin weight	Total Weight of Yellowfin that has been transferred
	Bigeye Weight	Total Weight of Bigeye that has been transferred
	"Blank" Weight	Record the species code for any other type of species that are being transferred. Recording 'mixed' species is an option, especially on purse seiners.
	Action Code	See codes on front of Form.
	Comments	Comment about the transfer activities that take place (e.g.: method used; problems; destination of the fish; etc.)

#### CODES

Vessel & Aircraft type codes	To make recording easier, each type of vessel has a unique number code (see code table). Be careful using number codes.
Action Codes (host vess)	Here describe the activity of the observer's vessel. If with another vessel be sure to use a code that shows whether the observer's (host) vessel receives ("_R") or it gives ("_G") items.  If more than one action is taking place record the most important (usually to do with fish transfer) in the "ACTION" column and the second action code in the comments column.  <i>Host vessel = vessel that observer is on.</i>  <i>Use the "?R" codes if host vessel is receiving fish or items from another vessel.</i> <i>Use the "?G" codes if the host vessel is giving fish or items to another vessel</i>  TR, TG - transferring fish between vessel holds SR, SG - set sharing - when vessel has too many fish after all wells are filled (usually from its last set) and another vessel is invited to brail the remaining fish from the its net. BR, BG - bunkering - when one vessel takes fuel from another OR, OG - other - if vessels meet to transfer other items DF – dumping fish - because bad, damaged or too many
Flag Country Codes	Try to identify country that vessel comes from either by seeing the actual flag flying or by the home-port name on the stern.

#### Report Format Example.

To FFA Observer Co-ordinator

**sighting** - Jun. 23-1400Z - **Pos.** 0512345S -15612233E Moon-shadow -Q2344

**flag KR - type 2 - dir.** 180 - **dis** 3 **act** fi photo **Xtra** large green stripe on hull.

**Regards.** "observer name"

This explains that on 23rd June a Korean longline vessel was sighted fishing at the position with latitude: 05°12.345'S and longitude: 156°12.233'E. The name of the vessel is *Moonshadow* and its callsign is Q2344. It has a large green stripe on the hull and a photo has been taken by the observer.

REV. 2018

OBSERVER NAME	VESSEL NAME	OBSERVER TRIP ID NUMBER	PAGE OF
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VESEL OR AIRCRAFT SIGHTINGS

	SHIP'S TIME		OBSERVER'S VESSEL POSITION				SIGHTED VESSEL OR AIRCRAFT				COMPASS BEARING	DISTANCE	ACTION CODE	PHOTO	COMMENTS
	DATE	TIME	LATITUDE	N	LONGITUDE	E	NAME	INTERNATIONAL	FLAG	TYPE	BEARING	(Nautical	CODE	FRAME #	
	(MMDD)	(hh mm)	(dd° mm.mmm')	S	(ddd° mm.mmm')	W		CALLSIGN		CODE	(degrees)	Miles)	(seen vess)		
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															

FISH TRANSFERRING, FISH DUMPING, BUNKERING by OBSERVER'S VESSEL

	SHIP'S TIME		OBSERVER'S VESSEL POSITION				OTHER VESSEL				FISH TRANSFERRED (circle units)				ACTION CODE	COMMENTS
	DATE	TIME	LATITUDE	N	LONGITUDE	E	NAME	INTERNATIONAL	FLAG	TYPE	SKJ	YFT	BET			
	(MMDD)	(hh mm)	(dd° mm.mmm')	S	(ddd° mm.mmm')	W		CALLSIGN		CODE	WGT. NO.	WGT. NO.	WGT. NO.	WGT. NO.	(host vess)	
1																
2																
3																

<b>VESEL AND AIRCRAFT TYPE CODES</b> 1 SINGLE PURSE SEINE 2 LONGLINE 3 POLE AND LINE 4 MOTHERSHIP 5 TROLL 6 NET BOAT 7 BUNKER  8 SEARCH, ANCHOR OR LIGHT BOAT 9 FISH CARRIER 10 TRAWLER  21 LIGHT AIRCRAFT 22 HELICOPTER  31 OTHER - please specify: .....	<b>FLAG COUNTRY CODES</b> • IF COUNTRY IS NOT IN LIST WRITE NAME OF COUNTRY  CN CHINA    US USA    BZ BELIZE JP JAPAN    PH PHILLIPINES    RU RUSSIA TW TAIWAN    PA PANAMA    SG SINGAPORE KR KOREA    HN HONDURAS    LK SRI LANKA VU VANUATU	<b>ACTION CODES</b> • FISHING INCLUDES ANY FISHING RELATED ACTIVITY NOT OTHERWISE COVERED HERE  <b>RECEIVING</b> FI FISHING    TR TRANSHIPPING FISH PF POSSIBLY FISHING    SR SET SHARING NF NOT FISHING    BR BUNKERING DF DUMPING FISH  OR OTHER ...specify...  <b>GIVING</b> TG TRANSHIPPING FISH .... (from hold in one boat to hold in other) SG SET SHARING..... (from one boat's net to another boat's hold) BG BUNKERING  OG OTHER .....	<b>ALL WEIGHTS MUST BE METRIC TONNES</b>
--	---	--	--

Sighting vessels is a very important surveillance role of observers. If vessels are seen that could possibly be fishing illegally, record as much detail as possible. Don't hesitate to contact the "Observer Co-ordinator" at FFA or your local fishery division, by telex, fax or email, immediately you see such activity. Include all information about the vessel and its activities.

An example of the format to use when reporting a sighting to FFA is at the bottom of this page. Please follow the format, and add any other comments at the end of the message.

Observer Name	Put first name first and last name last. Print name in full.
Vessel Name	Put vessel's full name. Names <u>must not</u> be abbreviated.
Observer Trip ID	Same on all Forms - issued to observer before leaving port.
Page of	If there is more than one page for the trip, number each page.

#### SIGHTED VESSEL OR AIRCRAFT

Be as thorough as you possibly can when filling this section of the form. Any small piece of information can assist in identifying the vessel. This is especially important if you can not see the name or call sign. If you can not get some information because it is not visible or impossible to work out, put a dash in the data field.

Date/Time	Ship's date / time at start of sighting or transfer activity (dd/mm/yy hh:mm)
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N S & E W	It is very important to record if latitude is North or South of the equator by writing "N" or "S" beside the position. Also be sure to note longitude as East or West of the 180° line. These can also be confirmed on the GPS.
Name (of sighted vessel)	If possible name the vessel you sighted. If you can't see the name properly, try to get a few of the letters from the name.
International Call-sign	If possible get any call signs or numbers that are visible.
Flag	Try to find out the flag country - often written on stern.
Type Code	"Vessel and aircraft <b>type codes</b> " are on front of Form. E.g.: purse -seiner = 1; longliner = 2; etc.
Compass bearing (degrees) and Distance (nautical miles)	Check compass and radar for a bearing and an exact distance from the observer's vessel to the other vessel. Estimate the distance if the radar is not available.
Action Code (seen vess)	In this section the "action code" describes the activity the sighted (seen) vessel is involved in when it was observed. If unsure of the best code, describe the activity in "comments".
Photo Frame #	If taking a photo, record the camera's photo frame number.
Comments	Comments about the sighted vessel or aircraft that have not been covered on the form. (E.g., distinguishing features such as colour, hull design or shape, bridge position, etc.). Be as thorough as possible as this will help identify the vessel later, especially if you can not get a name or call-sign.

#### FISH TRANSFERRING, FISH DUMPING, BUNKERING by OBSERVER'S VESSEL

Other vessel name		Name of any other vessel that is involved in a transfer operation with the observer's vessel.
International callsign		The call-sign that should be visibly painted on the other vessel
Type Code		Use the "Vessel and aircraft <b>type codes</b> " on front of this form to describe what type of vessel is receiving the fish.
FISH TRANSFERRED	SkipJack Weight	Total Weight of Skipjack that has been transferred
	Yellowfin weight	Total Weight of Yellowfin that has been transferred
	Bigeye Weight	Total Weight of Bigeye that has been transferred
	"Blank" Weight	Record the species code for any other type of species that are being transferred. Recording 'mixed' species is an option, especially on purse seiners.
	Action Code	See codes on front of Form.
	Comments	Comment about the transfer activities that take place (e.g.: method used; problems; destination of the fish; etc.)

#### CODES

Vessel & Aircraft type codes	To make recording easier, each type of vessel has a unique number code (see code table). Be careful using number codes.
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Flag Country Codes	Try to identify country that vessel comes from either by seeing the actual flag flying or by the home-port name on the stern.

#### Report Format Example.

To FFA Observer Co-ordinator

**sighting** - Jun. 23-1400Z - **Pos.** 0512345S -15612233E Moon-shadow -Q2344

**flag KR - type 2 - dir.** 180 - **dis** 3 **act** fi photo **Xtra** large green stripe on hull.

**Regards.** "observer name"

This explains that on 23rd June a Korean longline vessel was sighted fishing at the position with latitude: 05°12.345'S and longitude: 156°12.233'E. The name of the vessel is *Moonshadow* and its callsign is Q2344. It has a large green stripe on the hull and a photo has been taken by the observer.



**SPC / FFA REGIONAL OBSERVER  
SPECIES OF SPECIAL INTEREST - VESSEL INTERACTIONS**

**FORM GEN - 2**

Rev. 2018

OBSERVER NAME	VESSEL NAME	OBSERVER TRIP ID NUMBER	PAGE      OF
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SSI CODE	START OF INTERACTION TIME (HH : mm)		END OF INTERACTION TIME (HH : mm)		DATE	LATITUDE		LONGITUDE	
					YY MM DD	(dd mm.mmm)	N S	(ddd mm.mmm)	E W
VESSEL INTERACTION CODE	Est. DISTANCE from V.		CONDITION CODE		Estimate of SSI Length		Total Numbers		
	START  m NM	END  m NM	START	END	Adults  m cm	Juveniles  m cm	Adults	Juveniles	

Description of Species / Interaction

SSI CODE	START OF INTERACTION TIME (HH : mm)		END OF INTERACTION TIME (HH : mm)		DATE	LATITUDE		LONGITUDE	
					YY MM DD	(dd mm.mmm)	N S	(ddd mm.mmm)	E W
VESSEL INTERACTION CODE	Est. DISTANCE from V.		CONDITION CODE		Estimate of SSI Length		Total Numbers		
	START  m NM	END  m NM	START	END	Adults  m cm	Juveniles  m cm	Adults	Juveniles	

Description of Species / Interaction

SSI CODE	START OF INTERACTION TIME (HH : mm)		END OF INTERACTION TIME (HH : mm)		DATE	LATITUDE		LONGITUDE	
					YY MM DD	(dd mm.mmm)	N S	(ddd mm.mmm)	E W
VESSEL INTERACTION CODE	Est. DISTANCE from V.		CONDITION CODE		Estimate of SSI Length		Total Numbers		
	START  m NM	END  m NM	START	END	Adults  m cm	Juveniles  m cm	Adults	Juveniles	

Description of Species / Interaction

SSI CODE	START OF INTERACTION TIME (HH : mm)		END OF INTERACTION TIME (HH : mm)		DATE	LATITUDE		LONGITUDE	
					YY MM DD	(dd mm.mmm)	N S	(ddd mm.mmm)	E W
VESSEL INTERACTION CODE	Est. DISTANCE from V.		CONDITION CODE		Estimate of SSI Length		Total Numbers		
	START  m NM	END  m NM	START	END	Adults  m cm	Juveniles  m cm	Adults	Juveniles	

Description of Species / Interaction

## SPECIES OF SPECIAL INTEREST - VESSEL INTERACTIONS Instructions

Rev. 2018

The Purpose of the new Vessel Interaction Form is to capture any interactions by any Species of Special Interest with the vessel or its non-primary gear. An interaction with the vessel or its non-primary gear is said to have occurred if the SSI has come close to the vessel/non-primary gear or if the behaviour of the SSI has been influenced by the presence of the vessel/non-primary gear. For instance, the marine mammal came close to the vessel and swam alongside it. Record all interactions with the primary fishing gear on the PS-3, LL-4 or PL-3 form.

**Non-primary gear** means equipment that belongs to the vessel, but it not the gear used by the vessel to catch tuna.

On a purse-seine vessel only the net is the primary gear. FADs, tender vessels, skiff etc are not considered primary gear. All SSIs caught/trapped/entangled by the purse-seine net should be recorded on the PS-3 form.

On a longline vessel the mainline, all componets of the branchline, and the radio buoys attached to the mainline are seen as part of the primary gear. All SSI caught/trapped/ hooked by the longline gear should be recorded on the LL-4 form.

On a pole-and-line vessel only the fishing poles are part of the primary gear.

**Observer Name:** Print your name in full. Put your first name (Christian name) first and your last name (surname) last.

**Observer Trip ID Number:** Fill in your trip identification number as supplied by your programme before departure - exactly as recorded on the PS-1 (pg1) form.

**Page of:** Number forms through trip as Page 1, Page 2 etc. At the end of the trip check that the total number of pages are filled in on all pages.

**SSI Code:** Record the three-letter FAO species code for each species of special interest that interacts with the vessel/non-primary gear.

**Start of Interaction Time:** Record in hours and minutes the time the SSI started to interact with the vessel/non-primary gear. This is the time the observer first noted that there was an interaction or that the SSI behaviour was influenced by the vessel presence.

**End of Interaction Time:** Record the time in hours and minutes when the SSI's interaction with the vessel ended.

**Date:** Record the date of the interaction (year-month-day).

**Latitude / Longitude:** Record the location of the start of the interaction (or when the observer first noticed the interaction)by filling in the degrees, minutes and decimal minutes for latitude and longitude to three decimal places.

**VESSEL INTERACTION CODES:** Use these codes to describe how the SSI interacted with the vessel or non-primary gear.

IBV - Interaction, beside vessel	ICV - Collision with vessel
ION - Interaction, outside net	ICP - Collision with propeller
ICF - Interaction, crew feeding	ICT= Collision with Tori line
IWF - Interaction - with FADs, but not set on	FRB- Feeding on bait during set
IDW - Interaction - dead in water	IFO - Feeding on discarded offal
OTH - Interactions - other, please specify	IRE - Resting on vessel, floats or FADs (birds)

**Estimate of Distance from Vessel:** Record an observer eye-estimate of the distance of the SSI from the vessel when the observer first noticed the interaction. If the SSI moves towards or away from the vessel/non-primary gear record this in the description box below. Normally the distance will be recorded in (m) **meters**, or (nm) **nautical miles**.

**Condition Codes:**

A0 - Alive, condition unknown	A3 - Alive, but unlikely to live
A1 - Alive and healthy	D - Dead
A2 -Alive, but injured or distressed	U - Conditinon

**Estimate of SSI Length:** Record an observer eye-estimate of the average length of 1) the adult SSIs and 2) the juvenile SSIs. Normally, marine mammals will be recorded in (m) **meters**, while turtle, birds will be recorded as (cm) **centimeters**.

**Total Numbers:** Record the total number of adults, and or the total number of juvenile SSIs. If there are a large number of species, record an eye-estimate, and mention this is in the description area below.

**Description of Species / Interaction:** Provide more information on the species to help confirm the species (size, colour, markings) code recorded by the observer. Also, describe all aspects of the interaction as briefly, but also as informative, as possible.

**SPC / FFA REGIONAL OBSERVER  
SPECIES OF SPECIAL INTEREST - VESSEL INTERACTIONS**

**FORM GEN - 2**

Rev. 2018

OBSERVER NAME	VESSEL NAME	OBSERVER TRIP ID NUMBER	PAGE      OF
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SSI CODE	START OF INTERACTION TIME (HH : mm)		END OF INTERACTION TIME (HH : mm)		DATE	LATITUDE		LONGITUDE	
					YY MM DD	(dd mm.mmm)	N S	(ddd mm.mmm)	E W
VESSEL INTERACTION CODE	Est. DISTANCE from V.		CONDITION CODE		Estimate of SSI Length		Total Numbers		
	START  m NM	END  m NM	START	END	Adults  m cm	Juveniles  m cm	Adults	Juveniles	

Description of Species / Interaction

SSI CODE	START OF INTERACTION TIME (HH : mm)		END OF INTERACTION TIME (HH : mm)		DATE	LATITUDE		LONGITUDE	
					YY MM DD	(dd mm.mmm)	N S	(ddd mm.mmm)	E W
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	START  m NM	END  m NM	START	END	Adults  m cm	Juveniles  m cm	Adults	Juveniles	

Description of Species / Interaction

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Description of Species / Interaction

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Description of Species / Interaction

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Rev. 2018

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**Date:** Record the date of the interaction (year-month-day).

**Latitude / Longitude:** Record the location of the start of the interaction (or when the observer first noticed the interaction) by filling in the degrees, minutes and decimal minutes for latitude and longitude to three decimal places.

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**SPC / FFA REGIONAL OBSERVER  
SPECIES OF SPECIAL INTEREST - VESSEL INTERACTIONS**

**FORM GEN - 2**

Rev. 2018

OBSERVER NAME	VESSEL NAME	OBSERVER TRIP ID NUMBER	PAGE      OF
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SSI CODE	START OF INTERACTION TIME (HH : mm)		END OF INTERACTION TIME (HH : mm)		DATE	LATITUDE		LONGITUDE	
					YY MM DD	(dd mm.mmm)	N S	(ddd mm.mmm)	E W
VESSEL INTERACTION CODE	Est. DISTANCE from V.		CONDITION CODE		Estimate of SSI Length		Total Numbers		
	START  m NM	END  m NM	START	END	Adults  m cm	Juveniles  m cm	Adults	Juveniles	

Description of Species / Interaction

SSI CODE	START OF INTERACTION TIME (HH : mm)		END OF INTERACTION TIME (HH : mm)		DATE	LATITUDE		LONGITUDE	
					YY MM DD	(dd mm.mmm)	N S	(ddd mm.mmm)	E W
VESSEL INTERACTION CODE	Est. DISTANCE from V.		CONDITION CODE		Estimate of SSI Length		Total Numbers		
	START  m NM	END  m NM	START	END	Adults  m cm	Juveniles  m cm	Adults	Juveniles	

Description of Species / Interaction

SSI CODE	START OF INTERACTION TIME (HH : mm)		END OF INTERACTION TIME (HH : mm)		DATE	LATITUDE		LONGITUDE	
					YY MM DD	(dd mm.mmm)	N S	(ddd mm.mmm)	E W
VESSEL INTERACTION CODE	Est. DISTANCE from V.		CONDITION CODE		Estimate of SSI Length		Total Numbers		
	START  m NM	END  m NM	START	END	Adults  m cm	Juveniles  m cm	Adults	Juveniles	

Description of Species / Interaction

SSI CODE	START OF INTERACTION TIME (HH : mm)		END OF INTERACTION TIME (HH : mm)		DATE	LATITUDE		LONGITUDE	
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VESSEL INTERACTION CODE	Est. DISTANCE from V.		CONDITION CODE		Estimate of SSI Length		Total Numbers		
	START  m NM	END  m NM	START	END	Adults  m cm	Juveniles  m cm	Adults	Juveniles	

Description of Species / Interaction

## SPECIES OF SPECIAL INTEREST - VESSEL INTERACTIONS Instructions

Rev. 2018

The Purpose of the new Vessel Interaction Form is to capture any interactions by any Species of Special Interest with the vessel or its non-primary gear. An interaction with the vessel or its non-primary gear is said to have occurred if the SSI has come close to the vessel/non-primary gear or if the behaviour of the SSI has been influenced by the presence of the vessel/non-primary gear. For instance, the marine mammal came close to the vessel and swam alongside it. Record all interactions with the primary fishing gear on the PS-3, LL-4 or PL-3 form.

**Non-primary gear** means equipment that belongs to the vessel, but it not the gear used by the vessel to catch tuna.

On a purse-seine vessel only the net is the primary gear. FADs, tender vessels, skiff etc are not considered primary gear. All SSIs caught/trapped/entangled by the purse-seine net should be recorded on the PS-3 form.

On a longline vessel the mainline, all componets of the branchline, and the radio buoys attached to the mainline are seen as part of the primary gear. All SSI caught/trapped/ hooked by the longline gear should be recorded on the LL-4 form.

On a pole-and-line vessel only the fishing poles are part of the primary gear.

**Observer Name:** Print your name in full. Put your first name (Christian name) first and your last name (surname) last.

**Observer Trip ID Number:** Fill in your trip identification number as supplied by your programme before departure - exactly as recorded on the PS-1 (pg1) form.

**Page of:** Number forms through trip as Page 1, Page 2 etc. At the end of the trip check that the total number of pages are filled in on all pages.

**SSI Code:** Record the three-letter FAO species code for each species of special interest that interacts with the vessel/non-primary gear.

**Start of Interaction Time:** Record in hours and minutes the time the SSI started to interact with the vessel/non-primary gear. This is the time the observer first noted that there was an interaction or that the SSI behaviour was influenced by the vessel presence.

**End of Interaction Time:** Record the time in hours and minutes when the SSI's interaction with the vessel ended.

**Date:** Record the date of the interaction (year-month-day).

**Latitude / Longitude:** Record the location of the start of the interaction (or when the observer first noticed the interaction) by filling in the degrees, minutes and decimal minutes for latitude and longitude to three decimal places.

**VESSEL INTERACTION CODES:** Use these codes to describe how the SSI interacted with the vessel or non-primary gear.

IBV - Interaction, beside vessel	ICV - Collision with vessel
ION - Interaction, outside net	ICP - Collision with propeller
ICF - Interaction, crew feeding	ICT= Collision with Tori line
IWF - Interaction - with FADs, but not set on	FRB- Feeding on bait during set
IDW - Interaction - dead in water	IFO - Feeding on discarded offal
OTH - Interactions - other, please specify	IRE - Resting on vessel, floats or FADs (birds)

**Estimate of Distance from Vessel:** Record an observer eye-estimate of the distance of the SSI from the vessel when the observer first noticed the interaction. If the SSI moves towards or away from the vessel/non-primary gear record this in the description box below. Normally the distance will be recorded in (m) **meters**, or (nm) **nautical miles**.

**Condition Codes:**

A0 - Alive, condition unknown	A3 - Alive, but unlikely to live
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A2 -Alive, but injured or distressed	U - Conditinon

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**Total Numbers:** Record the total number of adults, and or the total number of juvenile SSIs. If there are a large number of species, record an eye-estimate, and mention this is in the description area below.

**Description of Species / Interaction:** Provide more information on the species to help confirm the species (size, colour, markings) code recorded by the observer. Also, describe all aspects of the interaction as briefly, but also as informative, as possible.

**SPC / FFA REGIONAL OBSERVER  
SPECIES OF SPECIAL INTEREST - VESSEL INTERACTIONS**

**FORM GEN - 2**

Rev. 2018

OBSERVER NAME	VESSEL NAME	OBSERVER TRIP ID NUMBER	PAGE OF
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SSI CODE	START OF INTERACTION TIME (HH : mm)		END OF INTERACTION TIME (HH : mm)		DATE	LATITUDE		LONGITUDE	
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Description of Species / Interaction

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Description of Species / Interaction

## SPECIES OF SPECIAL INTEREST - VESSEL INTERACTIONS Instructions

Rev. 2018

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**SPC / FFA REGIONAL OBSERVER  
SPECIES OF SPECIAL INTEREST - VESSEL INTERACTIONS**

**FORM GEN - 2**

Rev. 2018

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## SPECIES OF SPECIAL INTEREST - VESSEL INTERACTIONS Instructions

Rev. 2018

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**SPC / FFA REGIONAL OBSERVER  
SPECIES OF SPECIAL INTEREST - SIGHTINGS**

**Supplement to  
FORM GEN - 2**

Rev 2018

OBSERVER NAME	VESSEL NAME	OBSERVER TRIP ID No.	PAGE OF
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DATE YY MM DD	LATITUDE		LONGITUDE		SIGHTING CODE	TALLY	TOTAL NUMBER
	(dd mm.mmm)	N S	(ddd mm.mmm)	E W			
SSI CODE	Species Description						

DATE YY MM DD	LATITUDE		LONGITUDE		SIGHTING CODE	TALLY	TOTAL NUMBER
	(dd mm.mmm)	N S	(ddd mm.mmm)	E W			
SSI CODE	Species Description						

DATE YY MM DD	LATITUDE		LONGITUDE		SIGHTING CODE	TALLY	TOTAL NUMBER
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SSI CODE	Species Description						

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	(dd mm.mmm)	N S	(ddd mm.mmm)	E W			
SSI CODE	Species Description						

## SPECIES OF SPECIAL INTEREST - Supplementary (SIGHTINGS) Instructions

Rev. 2018

The purpose of the newly formatted *Species of Special Interest - Supplementary (Sightings)* Form is to capture any sightings of Species of Special Interest made by the observer. Make sure that it is a sighting and not an interaction with the vessel or non-primary gear (see GEN-2 interactions). Recording a sighting of a SSI suggests that the SSI's behaviour was not affected by the presence of the observer's vessel. Be reflective about how you record birds. Obviously, recording every single bird you see over-head with the species group code (BIZ) is not helpful. So think about what is helpful before recording bird sightings. Record (if you can identify them), the species you generally see during your trip. Your data should indicate the general abundance of birds, by species during the trip. Further training in Bird Identification and data recording will be provided from mid-2017. Recording the presence of marine mammals and birds on their migratory routes can be helpful to define, understand and evaluate their species ranges (the areas they can be found) and any impacts changes in the ecosystem is having on their migratory routes.

**Observer Name:** Print your name in full. Put your first name (Christian name) first and your last name (Surname) last.

**Observer Trip ID Number:** Fill in your trip identification number as supplied by your programme before departure - exactly as recorded on the PS-1 (pg1) form.

**Page of:** Number Forms through trip as Page 1, Page 2 etc. At the end of the trip check that the total number of pages are filled in on all pages.

**DATE:** Record the date (year-month-day) the sighting was made.

**LONGITUDE**  
**LATITUDE:** Give the position of the observer's vessel when the first SSI was sighted.

**SIGHTING CODE:** Record one of the 'Sighting Codes' to indicate the SSI behaviour when sighted.

### SIGHTING CODES

SDS - Sighting- Distance Swimming  
SBR - Sighting - Breaching  
STP - Sighting - Tail Slapping or Playing  
SMG - Sighting - Motionless in Group  
SDW - Sighting -Dead in Water  
SBO - Sighting - Bird Overhead  
OTH - Other, please specify

**TALLY:** Use this area if there are a number of SSIs that are noticed during the day. This area will be useful for bird sightings, or pods of marine mammal with many individuals.

**TOTAL NUMBER:** Record the total number of the SSI species that were seen. If there are large numbers of individual species record an eye-estimate.

**SSI CODE** Record the three letter FAO species identification code,

**SPECIES DESCRIPTION:** Provide a description of the species that will help to confirm its species code, mention colour, markings, length, fin shape etc.

**SPC / FFA REGIONAL OBSERVER  
SPECIES OF SPECIAL INTEREST - SIGHTINGS**

**Supplement to  
FORM GEN - 2**

Rev 2018

OBSERVER NAME	VESSEL NAME	OBSERVER TRIP ID No.	PAGE OF
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**SPC / FFA REGIONAL OBSERVER  
SPECIES OF SPECIAL INTEREST - SIGHTINGS**

**Supplement to  
FORM GEN - 2**

Rev 2018

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## SPECIES OF SPECIAL INTEREST - Supplementary (SIGHTINGS) Instructions

Rev. 2018

The purpose of the newly formatted *Species of Special Interest - Supplementary (Sightings)* Form is to capture any sightings of Species of Special Interest made by the observer. Make sure that it is a sighting and not an interaction with the vessel or non-primary gear (see GEN-2 interactions). Recording a sighting of a SSI suggests that the SSI's behaviour was not affected by the presence of the observer's vessel. Be reflective about how you record birds. Obviously, recording every single bird you see over-head with the species group code (BIZ) is not helpful. So think about what is helpful before recording bird sightings. Record (if you can identify them), the species you generally see during your trip. Your data should indicate the general abundance of birds, by species during the trip. Further training in Bird Identification and data recording will be provided from mid-2017. Recording the presence of marine mammals and birds on their migratory routes can be helpful to define, understand and evaluate their species ranges (the areas they can be found) and any impacts changes in the ecosystem is having on their migratory routes.

**Observer Name:** Print your name in full. Put your first name (Christian name) first and your last name (Surname) last.

**Observer Trip ID Number:** Fill in your trip identification number as supplied by your programme before departure - exactly as recorded on the PS-1 (pg1) form.

**Page of:** Number Forms through trip as Page 1, Page 2 etc. At the end of the trip check that the total number of pages are filled in on all pages.

**DATE:** Record the date (year-month-day) the sighting was made.

**LONGITUDE**  
**LATITUDE:** Give the position of the observer's vessel when the first SSI was sighted.

**SIGHTING CODE:** Record one of the 'Sighting Codes' to indicate the SSI behaviour when sighted.

### SIGHTING CODES

SDS - Sighting- Distance Swimming  
SBR - Sighting - Breaching  
STP - Sighting - Tail Slapping or Playing  
SMG - Sighting - Motionless in Group  
SDW - Sighting -Dead in Water  
SBO - Sighting - Bird Overhead  
OTH - Other, please specify

**TALLY:** Use this area if there are a number of SSIs that are noticed during the day. This area will be useful for bird sightings, or pods of marine mammal with many individuals.

**TOTAL NUMBER:** Record the total number of the SSI species that were seen. If there are large numbers of individual species record an eye-estimate.

**SSI CODE** Record the three letter FAO species identification code,

**SPECIES DESCRIPTION:** Provide a description of the species that will help to confirm its species code, mention colour, markings, length, fin shape etc.



**SPC / FFA REGIONAL OBSERVER  
SPECIES OF SPECIAL INTEREST - SIGHTINGS**

**Supplement to  
FORM GEN - 2**

Rev 2018

OBSERVER NAME	VESSEL NAME	OBSERVER TRIP ID No.	PAGE OF
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DATE YY MM DD	LATITUDE		LONGITUDE		SIGHTING CODE	TALLY	TOTAL NUMBER
	(dd mm.mmm)	N S	(ddd mm.mmm)	E W			
SSI CODE	Species Description						

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**SPC / FFA REGIONAL OBSERVER  
SPECIES OF SPECIAL INTEREST - SIGHTINGS**

**Supplement to  
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OBSERVER PROGRAMME:	<b>SPC/FFA REGIONAL OBSERVER VESSEL TRIP MONITORING SUMMARY</b>		<b>FORM GEN - 3</b> (pg 1)	
REV. 2018		TRIP START DATE    YY   MM   DD		
Observer NAME		<b><i>This form <u>must</u> be filled in by the observer for every trip</i></b>		
Obs. NATIONALITY	TRIP ID NUMBER	COASTAL STATE LICENCES (IF ANY)		NATIONALITY OF BOARDING VESSEL IF BOARDED DURING TRIP AT SEA
VESSEL NAME	COUNTRY REG. #	UVI	IRCS	VESSEL FLAG    VESSEL GEAR TYPE

**Did the vessel do any of the following (indicate 'Yes' or 'No' with an 'X' for every item)**

		Yes	No	pg No.
<b>Observer rights / social behaviour</b>	<b>RS-a</b> Did the operator or any crew member assault, obstruct, resist, delay, refuse boarding to, intimidate or interfere with observers in the performance of their duties	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>RS-b</b> Request that an event not be reported by the observer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>RS-c</b> Mistreat other crew	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>RS-d</b> Did operator fail to provide observer, while onboard, at no expense to observer or the observer's Government, with food, accommodation, access to safety gear and medical facilities of reasonable standard - equivalent to those normally available to an officer onboard the vessel	Refer to instruction pages for the full wording of all items on this page		
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>National regulations</b>	<b>NR-a</b> Fish in areas where the vessel is not permitted to fish	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>NR-b</b> Target species other than those they are licenced to target	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>NR-c</b> Use a fishing method other than the method the vessel was designed or licensed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>NR-d</b> Not display or present a valid (and current) licence document onboard	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>NR-e</b> Transfer or transship fish from or to another vessel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>NR-f</b> Was involved in bunkering activities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>NR-g</b> Fail to stow fishing gear when entering areas where vessel is not authorised to fish	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>WCPFC CMMs</b>	<b>wc-a</b> Fail to comply with any Commission Conservation and Management Measures (CMMs)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>wc-b</b> High-grade the catch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>wc-c</b> Fish on FAD during FAD Closure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Logsheet recording - Position Logsheet recording - Catch</b>	<b>LP-a</b> Inaccurately record vessel position on vessel log sheets for sets, hauling and catch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>LP-b</b> Fail to report vessel positions to countries, where required when entering and leaving an EEZ (crossing to or from an EEZ into or out of the High Seas)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>LC-a</b> Inaccurately record retained "Target Species" in the Vessel logs [or weekly reports]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>LC-b</b> Inaccurately record "Target Species" Discards	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>LC-c</b> Record target species inaccurately [eg. combine bigeye/yellowfin/skipjack catch]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>LC-d</b> Not record bycatch discards	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>SSIs</b>	<b>si-a</b> Land on deck Species of Special Interest (SSIs) (eg. Marine mammals, turtles seabirds or protected sharks)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>si-b</b> Interact (not land) with SSIs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>PN-a</b> Dispose of any metals, plastics, chemicals or old fishing gear	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>PN-b</b> Discharge any oil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Pollution</b>	<b>PN-c</b> Lose any fishing gear	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>PN-d</b> Abandon any fishing gear	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>PN-e</b> Fail to report any abandoned gear	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Sea safety</b>	<b>ss-a</b> Fail to monitor international safety frequencies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>ss-b</b> Carry out-of-date safety equipment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If unsure that a violation has been committed but suspect a vessel has violated its license agreement place an 'X' in the 'YES' box. Then write a full account of the incident, including all evidence that aroused suspicion.

<b>OBSERVER PROGRAMME</b>	The observer programme/provider you are contracted to (employed by) for this trip.
<b>OBSERVER NAME</b>	As written in your passport. Observer must print first name first and last name (family name) last.
<b>OBSERVER NATIONALITY</b>	YOUR nationality as per the passport you are using.
<b>OBSERVER TRIP ID No.</b>	Observer trip identification number. Same number for all forms and issued before leaving port.
<b>COASTAL STATE LICENCE (if any)</b>	List the licence number(s) of any current licence issued by a Coastal States (i.e countries where the vessel is licensed to fish).
<b>NATIONALITY OF BOARING VESSEL IF BOARDED AT SEA</b>	If host vessel is boarded by authorities and inspected at sea, what was nationality of the authority?
<b>VESSEL NAME</b>	Full vessel name, as written on licence documentation - not abbreviated. Include all numbers.
<b>COUNTRY REGISTRATION #</b>	The country registration number that was issued by the country where the vessel is registered. WCPFC requires all vessels over 100 Gross Tonnage to have a UVI after 1st Jan 2016. The number may appear on certificates before 2016. Generally the UVI is the International Marine Organisation number or may be the Lloyd's Register (LR) no.
<b>UNIQUE VESSEL IDENTIFIER</b>	International Radio Call Sign is issued by the flag state, normally painted on the side of the boat and a mix of letters and numbers. The IRCS should be the main number on the hull or side of the vessel. Confirm this before recording it. It may also be found on the vessel's licence.
<b>INTERNATIONAL RADIO CALL SIGN (IRCS)</b>	
<b>VESSEL FLAG</b>	Record the flag of the vessel. This is the same as the country the vessel is registered in.
<b>VESSEL GEAR TYPE</b>	The fishing method vessel is licensed to use (i.e purse seine, longline, pole-and-line)

If unsure that a violation has been committed but suspect a vessel has violated its license agreement, place an 'X' in the 'Yes' box. Then write a full account of the incident, including all evidence that aroused suspicion.

**During the trip did the Master or crew of the vessel attempt or do any of the following:**

Observer rights / social behaviour	<b>RS-a</b> <b>Did the operator or any crew member assault, obstruct, resist, delay, refuse boarding to, intimidate or interfere with observers in the performance of their duties</b> Were you prevented, blocked, intimidated, harassed or threatened by any of the crew or operator while onboard? Did any crew member attempt to bias your work through a gift or bribe?
	<b>RS-b</b> <b>Request that an event not be reported by the observer</b> Did any crew member or operator ask you not to record, report photograph or video an event?
	<b>RS-c</b> <b>Mistreat other crew</b> Were there any clear systematic or prejudiced bullying or mistreatment of any crew?
	<b>RS-d</b> <b>Did the operator fail to provide the observer, while on board the vessel, at no expense to the observer or the observers Government, with food, accommodation [access to safety gear] and medical facilities of a reasonable standard equivalent to those normally available to an officer on board the vessel</b> Do you think you were purposely given poor accommodation, food, no access to safety gear or medical treatment?
National regulations	<b>NR-a</b> <b>Fish in areas where the vessel is not permitted to fish</b> Be aware of areas within EEZs that a vessel is not allowed to fish. These include closed 'high seas pockets for purse-seiners', internal waters, territorial seas (12 miles from a land and archipelagic waters baseline) that are off limits to most gear types (however some exceptions do occur).
	<b>NR-b</b> <b>Target species other than those they are licensed to target</b> The target species is mentioned on the vessel's fishing permit. Usually "Tuna" will be the target species. Most common species targeted illegally are sharks or reef species targeted with handlines.
	<b>NR-c</b> <b>Use a fishing method other than the method the vessel was designed or licensed</b> The licensed fishing method is on the vessel's fishing permit. Note if a fishing method other than that on the permit is used. Common violations are hand lining near reefs and purse seiners setting lines at night to catch sharks. Fully describe the type of gear used and what species, if any, were caught.
	<b>NR-d</b> <b>Not display or present a valid (and current) licence document onboard</b> A valid original licence document should be in the wheelhouse on display. Regulations usually require an official license document to be kept onboard ready for inspection on request by suitable people, including observers. Record 'YES' if: no document; a copy or faxed document; an outdated document; or a cover letter shown. Report which type and why such a copy was used, if possible.
	<b>NR-e</b> <b>Transfer or tranship fish from or to another vessel.</b> Transhipping of fish by purse seiners can only occur in designated ports. Indicate if host vessel transhipped fish or any fish products (e.g. shark fins) at sea. Note: group seine operations in PNG may tranship at sea in their zone
	<b>NR-f</b> <b>Was involved in bunkering activities</b> Bunkering is transfer of fuel between vessels. Generally a bunker vessel is a specialised fuel carrier. Some countries ban bunkering except at port, while others require notification prior to bunkering.
	<b>NR-g</b> <b>Fail to stow fishing gear when entering areas where vessel is not authorised to fish</b> Fishing gear should be stowed when entering waters of areas where vessels are not authorised to fish E.g.: net covered, boom lowered on purse seiners; floats stored and covered and snoods stored on longliners
WCPFC CMMs	<b>WC-a</b> <b>Fail to comply with any Commission Conservation and Management measures (CMMs)</b> Has any WCPFC regional regulation (CMM) been breached?
	<b>WC-b</b> <b>High grade the catch</b> Did the vessel discard target species already on board to make room for better quality, larger size or for a more marketable target species
	<b>WC-c</b> <b>Fish on FAD during FAD Closure</b> During the period July 1- October 31: Did the vessel retrieve, service, set or fish on any floating object or group of objects, of any size, that was or was not deployed, living or non-living, including (but not only) buoys, floats, netting, webbing, plastics, bamboo, logs or whale sharks, floating on or near the surface of the water that fish may associate with? Was vessel used to aggregate fish or to move aggregated fish, including using underwater lights or chumming.

**FORM GEN - 3**  
(pg 2)

OBSERVER NAME	VESSEL NAME	OBSERVER NATIONALITY
TRIP ID NUMBER	OBSERVER PROGRAMME	

[illegible]

DEBRIEFING STATUS				OBSERVER SIGNATURE	DATE YY / MM / DD
Circle one:	Not Debriefed	Pre-debriefed	Debriefed		

Rev. 2018	
<div> <div>Logsheets recording - Position</div> <div>Logsheets Recording - Catch</div> </div>	<p><b>Inaccurately record vessel position on vessel log sheets for sets, hauling and catch</b> The vessel logsheet should be filled out by the Captain or a designated officer, daily, or after each set.</p> <p><b>LP-a</b> The observer has the right to ask to see this log (inspect this log at least once a day). If there are significant discrepancies (&gt;3nm) of reported set positions between the vessel log and the observer forms the details should be written into the observer report.</p>
	<p><b>Fail to report vessel positions to countries, where required when entering and leaving an EEZ (crossing to or from an EEZ into or out of the High Seas)</b> Zone Entry and Zone Exit as well as Port Entry and Port Exit notifications are regulated by countries. Most countries also have mandatory Wednesday reporting of position when fishing in their EEZs.</p>
	<p><b>Inaccurately record retained "Target Species" in the Vessel logs or weekly reports</b> Is the vessel under reporting, over reporting or not reporting any of the observed sets for any reason ? It is critical that observers do their own accurate estimate of catch. Compare vessel logged catches with your estimates to ensure all sets are recorded and the catch has been logged correctly every day.</p>
	<p><b>Inaccurately record "Target Species" Discards</b> <b>LC-b</b> Report any attempt to not report commercial species that have been rejected because they are damaged, too small or are considered to be undesirable for other reasons. Note in your report if discards were reported by vessel.</p>
	<p><b>Record target species inaccurately</b> <b>LC-c</b> On purse seiners BET are commonly recorded as YFT; and both BET and YFT are sometimes recorded as SKJ. Mixed small BET and YFT are often recorded as just YFT, simply because they fetch the same cannery price.</p>
	<p><b>Not record bycatch discards</b> <b>LC-d</b> Report any attempt to not report any fish, shark, reptile or mammal species - retained or discarded.</p>
	<p><b>Inaccurately record retained bycatch species</b> <b>LC-e</b> Report if vessel wrongly reports retained bycatch species.</p>
	<p><b>Inaccurately record discarded bycatch species</b> <b>LC-f</b> Report if vessel wrongly reports discarded bycatch species.</p>
SSIs	<p><b>Land on deck Species of Special Interest (SSIs)</b> Did the vessel land on deck at any time (either deliberately or accidentally) during the trip any SSIs. SSIs are: all turtles; all marine mammals – dolphins, whales, seals, dugongs, etc; birds; oceanic whitetip sharks and silky sharks and whale sharks. All landings should also be fully recorded on the catch details forms (PS-3, PL-3, LL-4). More complete data and description must be in GEN-2 forms, the observer's journal and written report It is important to note the vessel's general attitude to such animals in reports.</p>
	<p><b>Interact (not land) with SSIs (e.g. Marine mammals, turtle or whale sharks)</b> <b>SI-b</b> Did any SSIs interact with any part of the vessel, its gear, or its support boats, etc., during the trip ? More information on interactions must be recorded on GEN-2 forms, observer journal and written report.</p>
<div> <div>Pollution</div> <div>(see MARPOL explanation on GEN-6)</div> </div>	<p><b>Dispose of any metals, plastics, chemicals or old fishing gear</b> <b>PN-a</b> Was there any deliberate throwing over of: metals or plastics (from kitchen or elsewhere on boat); or parts of the fishing gear (netting, nylon line, etc.); from the vessel into the ocean at any time ? Was any unprocessed perishable garbage discharged within 12 nautical miles of land or a reef ?</p>
	<p><b>Discharge any oil</b> <b>PN-b</b> Was any fuel oil spilled or dumped within 50 nautical miles of shore ?</p>
	<p><b>Lose any fishing gear</b> <b>PN-c</b> Was any fishing gear lost during this trip ?</p>
	<p><b>Abandon any fishing gear</b> <b>PN-d</b> Was any fishing gear dumped or abandoned by the observer's host vessel ?</p>
	<p><b>Fail to report any abandoned gear</b> <b>PN-e</b> Did vessel not report any lost fishing gear (IF REQUIRED by the country in which waters it is fishing) ?</p>
Sea safety	<p><b>Fail to monitor international Safety frequencies</b> <b>SS-a</b> Does the vessel keep its radio tuned into and turned onto the international distress, safety and calling frequencies when it is not communicating ? Frequencies are: VHF marine radio for medium to long range voice communications - 2182 kHz VHF marine radio for short range voice communications - Channel 16</p>
	<p><b>Carry out-of-date safety equipment</b> <b>SS-b</b> Was any of the safety equipment (lifeboats, EPIRBs, etc.) out of survey date or in a bad condition ?</p>

Debriefing Status: Normally the 'pre-debriefer' or 'debriefer' should circle one choice to indicate if debriefing has taken place at any time on the GEN-3 form. It is possible that the form will be first circled 'not debriefed', then circled pre-debriefed and finally circled debriefed .



OBSERVER PROGRAMME:	<b>SPC/FFA REGIONAL OBSERVER VESSEL TRIP MONITORING SUMMARY</b>		<b>FORM GEN - 3</b> (pg 1)	
REV. 2018		TRIP START DATE    YY    MM    DD		
Observer NAME		<b><i>This form <u>must</u> be filled in by the observer for every trip</i></b>		
Obs. NATIONALITY	TRIP ID NUMBER	COASTAL STATE LICENCES (IF ANY)	NATIONALITY OF BOARDING VESSEL IF BOARDED DURING TRIP AT SEA	
VESSEL NAME	COUNTRY REG. #	UVI	IRCS	VESSEL FLAG
				VESSEL GEAR TYPE

Did the vessel do any of the following (indicate 'Yes' or 'No' with an 'X' for every item)

		Yes	No	pg No.
<b>Observer rights / social behaviour</b>	<i>RS-a</i>	Did the operator or any crew member assault, obstruct, resist, delay, refuse boarding to, intimidate or interfere with observers in the performance of their duties		<input type="checkbox"/>
	<i>RS-b</i>	Request that an event not be reported by the observer		<input type="checkbox"/>
	<i>RS-c</i>	Mistreat other crew		<input type="checkbox"/>
	<i>RS-d</i>	Did operator fail to provide observer, while onboard, at no expense to observer or the observer's Government, with food, accommodation, access to safety gear and medical facilities of reasonable standard - equivalent to those normally available to an officer onboard the vessel		<input type="checkbox"/>
<b>Refer to instruction pages for the full wording of all items on this page</b>				
<b>National regulations</b>	<i>NR-a</i>	Fish in areas where the vessel is not permitted to fish		<input type="checkbox"/>
	<i>NR-b</i>	Target species other than those they are licenced to target		<input type="checkbox"/>
	<i>NR-c</i>	Use a fishing method other than the method the vessel was designed or licensed		<input type="checkbox"/>
	<i>NR-d</i>	Not display or present a valid (and current) licence document onboard		<input type="checkbox"/>
	<i>NR-e</i>	Transfer or transship fish from or to another vessel		<input type="checkbox"/>
	<i>NR-f</i>	Was involved in bunkering activities		<input type="checkbox"/>
	<i>NR-g</i>	Fail to stow fishing gear when entering areas where vessel is not authorised to fish		<input type="checkbox"/>
<b>WCPFC CMMs</b>	<i>wc-a</i>	Fail to comply with any Commission Conservation and Management Measures (CMMs)		<input type="checkbox"/>
	<i>wc-b</i>	High-grade the catch		<input type="checkbox"/>
	<i>wc-c</i>	Fish on FAD during FAD Closure		<input type="checkbox"/>
<b>Logsheet recording - Position Logsheet recording - Catch</b>	<i>LP-a</i>	Inaccurately record vessel position on vessel log sheets for sets, hauling and catch		<input type="checkbox"/>
	<i>LP-b</i>	Fail to report vessel positions to countries, where required when entering and leaving an EEZ (crossing to or from an EEZ into or out of the High Seas)		<input type="checkbox"/>
	<i>LC-a</i>	Inaccurately record retained "Target Species" in the Vessel logs [or weekly reports]		<input type="checkbox"/>
	<i>LC-b</i>	Inaccurately record "Target Species" Discards		<input type="checkbox"/>
	<i>LC-c</i>	Record target species inaccurately [eg. combine bigeye/yellowfin/skipjack catch]		<input type="checkbox"/>
	<i>LC-d</i>	Not record bycatch discards		<input type="checkbox"/>
<b>SSIs</b>	<i>si-a</i>	Land on deck Species of Special Interest (SSIs) (eg. Marine mammals, turtles seabirds or protected sharks)		<input type="checkbox"/>
	<i>si-b</i>	Interact (not land) with SSIs		<input type="checkbox"/>
<b>Pollution</b>	<i>PN-a</i>	Dispose of any metals, plastics, chemicals or old fishing gear		<input type="checkbox"/>
	<i>PN-b</i>	Discharge any oil		<input type="checkbox"/>
	<i>PN-c</i>	Lose any fishing gear		<input type="checkbox"/>
	<i>PN-d</i>	Abandon any fishing gear		<input type="checkbox"/>
	<i>PN-e</i>	Fail to report any abandoned gear		<input type="checkbox"/>
<b>Sea safety</b>	<i>ss-a</i>	Fail to monitor international safety frequencies		<input type="checkbox"/>
	<i>ss-b</i>	Carry out-of-date safety equipment		<input type="checkbox"/>

If unsure that a violation has been committed but suspect a vessel has violated its license agreement place an 'X' in the 'YES' box. Then write a full account of the incident, including a all evidence that aroused suspicion.

<b>OBSERVER PROGRAMME</b>	The observer programme/provider you are contracted to (employed by) for this trip.
<b>OBSERVER NAME</b>	Tas written in your passport. Observer must print first name first and last name (family name) last.
<b>OBSERVER NATIONALITY</b>	YOUR nationality as per the passport you are using.
<b>OBSERVER TRIP ID No.</b>	Observer trip identification number. Same number for all forms and issued before leaving port.
<b>COASTAL STATE LICENCE (if any)</b>	List the licence number(s) of any current licence issued by a Coastal States (i.e countries where the vessel is licensed to fish).
<b>NATIONALITY OF BOARING VESSEL IF BOARDED AT SEA</b>	If host vessel is boarded by authorities and inspected at sea, what was nationality of the authority?
<b>VESSEL NAME</b>	Full vessel name, as written on licence documentation - not abbreviated. Include all numbers.
<b>COUNTRY REGISTRATION #</b>	The country registration number that was issued by the country where the vessel is registered. WCPFC requires all vessels over 100 Gross Tonnage to have a UVI after 1st Jan 2016. The number may appear on certificates before 2016. Generally the UVI is the International Marine Organisation number or may be the the Lloyd's Register (LR) no.
<b>UNIQUE VESSEL IDENTIFIER</b>	International Radio Call Sign is issued by the flage state, normally painted on the side of the boat and a mix of letters and numbers. The IRCS should be the main number on the hull or side of the vessel. Confirm this before recording it. It may also be found on the vessel's licence.
<b>INTERNATIONAL RADIO CALL SIGN (IRCS)</b>	
<b>VESSEL FLAG</b>	Record the flag of the vessel. This is the same as the country the vessel is registered in.
<b>VESSEL GEAR TYPE</b>	The fishing method vessel is licensed to use (i.e purse seine, longline, pole-and-line)

If unsure that a violation has been committed but suspect a vessel has violated its license agreement, place an 'X' in the 'Yes' box. Then write a full account of the incident, including all evidence that aroused suspicion.

**During the trip did the Master or crew of the vessel attempt or do any of the following:**

Observer rights / social behaviour	<b>RS-a</b> <b>Did the operator or any crew member assault, obstruct, resist, delay, refuse boarding to, intimidate or interfere with observers in the performance of their duties</b> Were you prevented, blocked, intimidated, harassed or threatened by any of the crew or operator while onboard ? Did any crew member attempt to bias your work through a gift or bribe ?
	<b>RS-b</b> <b>Request that an event not be reported by the observer</b> Did any crew member or operator ask you not to record, report photograph or video an event?
	<b>RS-c</b> <b>Mistreat other crew</b> Were there any clear systematic or prejudiced bullying or mistreatment of any crew ?
	<b>RS-d</b> <b>Did the operator fail to provide the observer , while on board the vessel, at no expense to the observer or the observers Government, with food, accommodation [access to safety gear] and medical facilities of a reasonable standard equivalent to those normally available to an officer on board the vessel</b> Do you think you were purposely given poor accommodation, food, no access to safety gear or medical treatment?
National regulations	<b>NR-a</b> <b>Fish in areas where the vessel is not permitted to fish</b> Be aware of areas within EEZs that a vessel is not allowed to fish. These include closed 'high seas pockets for purse-seiners', internal waters, territorial seas (12 miles from a land and archipelagic waters baseline) that are off limits to most gear types (however some exceptions do occur).
	<b>NR-b</b> <b>Target species other than those they are licensed to target</b> The target species is mentioned on the vessel's fishing permit. Usually "Tuna" will be the target species. Most common species targeted illegally are sharks or reef species targeted with handlines.
	<b>NR-c</b> <b>Use a fishing method other than the method the vessel was designed or licensed</b> The licensed fishing method is on the vessel's fishing permit. Note if a fishing method other than that on the permit is used. Common violations are hand lining near reefs and purse seiners setting lines at night to catch sharks. Fully describe the type of gear used and what species, if any, were caught.
	<b>NR-d</b> <b>Not display or present a valid (and current) licence document onboard</b> A valid original licence document should be in the wheelhouse on display. Regulations usually require an official license document to be kept onboard ready for inspection on request by suitable people, including observers. Record 'YES' if: no document; a copy or faxed document; an outdated document; or a cover letter shown. Report which type and why such a copy was used, if possible.
	<b>NR-e</b> <b>Transfer or tranship fish from or to another vessel.</b> Transhipping of fish by purse seiners can only occur in designated ports. Indicate if host vessel transhipped fish or any fish products (e.g. shark fins) at sea. Note: group seine operations in PNG may tranship at sea in their zone
	<b>NR-f</b> <b>Was involved in bunkering activities</b> Bunkering is transfer of fuel between vessels. Generally a bunker vessel is a specialised fuel carrier. Some countries ban bunkering except at port, while others require notification prior to bunkering.
	<b>NR-g</b> <b>Fail to stow fishing gear when entering areas where vessel is not authorised to fish</b> Fishing gear should be stowed when entering waters of areas where vessels are not authorised to fish E.g.: net covered, boom lowered on purse seiners; floats stored and covered and snoods stored on longliners
WCPFC CMMs	<b>WC-a</b> <b>Fail to comply with any Commission Conservation and Management measures (CMMs)</b> Has any WCPFC regional regulation (CMM) been breached ?
	<b>WC-b</b> <b>High grade the catch</b> Did the vessel discard target species already on board to make room for better quality, larger size or for a more marketable target species
	<b>WC-c</b> <b>Fish on FAD during FAD Closure</b> During the period July 1- October 31: Did the vessel retrieve, service, set or fish on any floating object or group of objects, of any size, that was or was not deployed, living or non-living, including (but not only) buoys, floats, netting, webbing, plastics, bamboo, logs or whale sharks, floating on or near the surface of the water that fish may associate with ? Was vessel used to aggregate fish or to move aggregated fish, including using underwater lights or chumming.

**FORM GEN - 3**  
(pg 2)

OBSERVER NAME	VESSEL NAME	OBSERVER NATIONALITY
TRIP ID NUMBER	OBSERVER PROGRAMME	

[illegible]

DEBRIEFING STATUS				OBSERVER SIGNATURE	DATE YY / MM / DD
Circle one:	Not Debriefed	Pre-debriefed	Debriefed		

Rev. 2018	
<div> <div>Logsheets recording - Position</div> <div>Logsheets Recording - Catch</div> </div>	<p><b>Inaccurately record vessel position on vessel log sheets for sets, hauling and catch</b> The vessel logsheet should be filled out by the Captain or a designated officer, daily, or after each set.</p> <p><b>LP-a</b> The observer has the right to ask to see this log (inspect this log at least once a day). If there are significant discrepancies (&gt;3nm) of reported set positions between the vessel log and the observer forms the details should be written into the observer report.</p>
	<p><b>Fail to report vessel positions to countries, where required when entering and leaving an EEZ (crossing to or from an EEZ into or out of the High Seas)</b> Zone Entry and Zone Exit as well as Port Entry and Port Exit notifications are regulated by countries. Most countries also have mandatory Wednesday reporting of position when fishing in their EEZs.</p>
	<p><b>Inaccurately record retained "Target Species" in the Vessel logs or weekly reports</b> Is the vessel under reporting, over reporting or not reporting any of the observed sets for any reason ? It is critical that observers do their own accurate estimate of catch. Compare vessel logged catches with your estimates to ensure all sets are recorded and the catch has been logged correctly every day.</p>
	<p><b>Inaccurately record "Target Species" Discards</b> <b>LC-b</b> Report any attempt to not report commercial species that have been rejected because they are damaged, too small or are considered to be undesirable for other reasons. Note in your report if discards were reported by vessel.</p>
	<p><b>Record target species inaccurately</b> <b>LC-c</b> On purse seiners BET are commonly recorded as YFT; and both BET and YFT are sometimes recorded as SKJ. Mixed small BET and YFT are often recorded as just YFT, simply because they fetch the same cannery price.</p>
	<p><b>Not record bycatch discards</b> <b>LC-d</b> Report any attempt to not report any fish, shark, reptile or mammal species - retained or discarded.</p>
	<p><b>Inaccurately record retained bycatch species</b> <b>LC-e</b> Report if vessel wrongly reports retained bycatch species.</p>
	<p><b>Inaccurately record discarded bycatch species</b> <b>LC-f</b> Report if vessel wrongly reports discarded bycatch species.</p>
SSIs	<p><b>Land on deck Species of Special Interest (SSIs)</b> Did the vessel land on deck at any time (either deliberately or accidentally) during the trip any SSIs. SSIs are: all turtles; all marine mammals – dolphins, whales, seals, dugongs, etc; birds; oceanic whitetip sharks and silky sharks and whale sharks. All landings should also be fully recorded on the catch details forms (PS-3, PL-3, LL-4). More complete data and description must be in GEN-2 forms, the observer's journal and written report It is important to note the vessel's general attitude to such animals in reports.</p>
	<p><b>Interact (not land) with SSIs (e.g. Marine mammals, turtle or whale sharks)</b> <b>SI-b</b> Did any SSIs interact with any part of the vessel, its gear, or its support boats, etc., during the trip ? More information on interactions must be recorded on GEN-2 forms, observer journal and written report.</p>
<div> <div>Pollution</div> <div>(see MARPOL explanation on GEN-6)</div> </div>	<p><b>Dispose of any metals, plastics, chemicals or old fishing gear</b> <b>PN-a</b> Was there any deliberate throwing over of: metals or plastics (from kitchen or elsewhere on boat); or parts of the fishing gear (netting, nylon line, etc.); from the vessel into the ocean at any time ? Was any unprocessed perishable garbage discharged within 12 nautical miles of land or a reef ?</p>
	<p><b>Discharge any oil</b> <b>PN-b</b> Was any fuel oil spilled or dumped within 50 nautical miles of shore ?</p>
	<p><b>Lose any fishing gear</b> <b>PN-c</b> Was any fishing gear lost during this trip ?</p>
	<p><b>Abandon any fishing gear</b> <b>PN-d</b> Was any fishing gear dumped or abandoned by the observer's host vessel ?</p>
	<p><b>Fail to report any abandoned gear</b> <b>PN-e</b> Did vessel not report any lost fishing gear (IF REQUIRED by the country in which waters it is fishing) ?</p>
Sea safety	<p><b>Fail to monitor international Safety frequencies</b> <b>SS-a</b> Does the vessel keep its radio tuned into and turned onto the international distress, safety and calling frequencies when it is not communicating ? <b>Frequencies are:</b> VHF marine radio for medium to long range voice communications - 2182 kHz VHF marine radio for short range voice communications - Channel 16</p>
	<p><b>Carry out-of-date safety equipment</b> <b>SS-b</b> Was any of the safety equipment (lifeboats, EPIRBs, etc.) out of survey date or in a bad condition ?</p>

Debriefing Status: Normally the 'pre-debriefer' or 'debriefer' should circle one choice to indicate if debriefing has taken place at any time on the GEN-3 form. It is possible that the form will be first circled 'not debriefed', then circled pre-debriefed and finally circled debriefed .

<b>SPC/FFA REGIONAL OBSERVER CONVERSION FACTORS</b>	<b>FORM GEN-4</b>
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<b>SPC/FFA REGIONAL OBSERVER CONVERSION FACTORS</b>	<b>FORM GEN-4</b>
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REVISÉ 2018

OBSERVER NAME	MEASURING INSTRUMENT	OBSERVER TRIP ID No.	PAGE	OF
VESSEL NAME	MAKE, MODEL AND CAPACITY OF SCALES	SHIP'S START OF TRIP DATE (YYYY/MM/DD)	SHIP'S END OF TRIP DATE (YYYY/MM/DD)	

DETAILS OF WEIGHTS AND MEASUREMENTS COLLECTED									
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[illegible]

## CONVERSION FACTORS

OBSERVER NAME	MEASURING INSTRUMENT	OBSERVER TRIP ID No.	PAGE	OF
<div style="border: 1px solid black; padding: 5px; width: fit-content;">This header should be filled in completely</div>	<i>e.g.: SPC 1.5 m Aluminium calipers</i>	<i>e.g.: JMA 97-</i>	<div style="border: 1px solid black; padding: 2px;">This is page 7</div>	<div style="border: 1px solid black; padding: 2px;">7</div> → <div style="border: 1px solid black; padding: 2px;">19</div>
VESSEL NAME	MAKE, MODEL AND CAPACITY OF SCALES	<div style="border: 1px solid black; padding: 2px; display: inline-block;">Don't forget !</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">Total number of GEN-4s forms used in the trip was 19</div>		
<i>e.g.: Salzer 100kg dial-faced spring scales</i>				

DETAILS OF WEIGHTS AND MEASUREMENTS COLLECTED																			
SET NO.	LABEL NO.	SHIP'S TIME	SPECIES CODE	LENGTHS (in cm.)						WEIGHTS (in kg.)				WET FIN	PROCESSED WGT.		LANDED WEIGHT		COMMENTS
				UF	US	LF	PF	PS	TL	WHOLE	HEAD	TAIL	GUTS		(kg.)	CODE	(kg.)	CODE	
# 1	3	1720	BET	152	124	—	—	98	—	—	—	4	—	9	72	GG	70	GG	An example

**Set No.**

Record the relevant set number ie set # 1, 2 etc. There is no need to start a new page for a new set but you must indicate the correct set number for each line. The set number is at the top of the PS-3 and LL-4 form

**Label No.**

When unable to get **whole** or **processed weight** during the trip attach a label inside the mouth or gut cavity of the fish. When back on shore record **landed weight**.

If processed weight can be collected on board still use labels and then also record **landed weight** of fish as it is recorded at unloading. This can be used for checking weight loss during storage

**Ship's Time and Species Code**

must be recorded exactly as they are on Catch Monitoring Form (LL-4), on longliners or the set time and species from the Set Details Form (PS-3) on purse seiners

If using Form GEN-4 but not using Form LL-4 (see \* below), record sex in the comments field.

**Length code** describes what parts of the fish or animal are actually measured

Code Description

UF - Upper jaw to fork in tail  
US - Upper jaw to second dorsal fin  
LF - Lower jaw to fork in tail  
PF - Pectoral fin to fork in tail  
PS - Pectoral fin to second dorsal fin  
TL - Total length (for sharks)

measure the pectoral and second dorsal fins at the most forward points that they attach to the body

Collect "UF", "US" and "PS" for tunas  
Collect "LF", "PF" and "PS" for billfish

**Weights:**

if <10 kg  
aim for accuracy to 0.5 kg (round to nearest whole kg)

if >10kg  
aim for accuracy to 1.0 kg

Tunas: Include removed gills with guts when weighing whole weight.

Billfish: Include removed bills with guts when weighing whole weight

**Weight codes** describe the state of the fish at the time that it was weighed. As such they must not be confused with Fate codes, which describe the final state of the fish.

Code Description

WW - Whole weight  
GG - Guttled and gilled  
GH - Guttled and headed  
GT - Guttled, gilled and tailed  
GX - Guttled, headed and tailed  
GO - Guttled only (gills left in)  
NM - Not Measured

The GEN-4 form can be used to collect information from several sets (see the set number column on the left). As with all data it is important that you collect information as accurately as possible.

However, it is not important to collect this data for all catch. Usually only the more experienced and proven observers will be asked to collect this extra information. Only collect data for this form when it can be comfortably and accurately gathered without stopping the collection of other important data.

\* On some more difficult trips you may choose, or were asked, to take time out from normal sampling to put more effort into collecting conversion factor information. In this situation the Catch Monitoring Form may not be used. At times like this record the sex of the fish in the comments section of Form GEN-4.

The comments section can be used to note any factor that you feel has had an important influence on the data collection for this form.

<b>SPC/FFA REGIONAL OBSERVER CONVERSION FACTORS</b>	<b>FORM GEN-4</b>
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<b>SPC/FFA REGIONAL OBSERVER CONVERSION FACTORS</b>	<b>FORM GEN-4</b>
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REVISÉ 2018

OBSERVER NAME	MEASURING INSTRUMENT	OBSERVER TRIP ID No.	PAGE OF
VESSEL NAME	MAKE, MODEL AND CAPACITY OF SCALES	SHIP'S START OF TRIP DATE (YYYY/MM/DD)	SHIP'S END OF TRIP DATE (YYYY/MM/DD)

DETAILS OF WEIGHTS AND MEASUREMENTS COLLECTED									
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	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

[illegible]

## CONVERSION FACTORS

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DETAILS OF WEIGHTS AND MEASUREMENTS COLLECTED																			
SET NO.	LABEL NO.	SHIP'S TIME	SPECIES CODE	LENGTHS (in cm.)						WEIGHTS (in kg.)				WET FIN	PROCESSED WGT.		LANDED WEIGHT		COMMENTS
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# 1	3	1720	BET	152	124	—	—	98	—	—	—	4	—	9	72	GG	70	GG	An example

**Set No.**

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**Label No.**

When unable to get **whole** or **processed weight** during the trip attach a label inside the mouth or gut cavity of the fish. When back on shore record **landed weight**.

If processed weight can be collected on board still use labels and then also record **landed weight** of fish as it is recorded at unloading. This can be used for checking weight loss during storage

**Ship's Time and Species Code**

must be recorded exactly as they are on Catch Monitoring Form (LL-4), on longliners or the set time and species from the Set Details Form (PS-3) on purse seiners

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if <10 kg  
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NM - Not Measured

The GEN-4 form can be used to collect information from several sets (see the set number column on the left). As with all data it is important that you collect information as accurately as possible.

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The comments section can be used to note any factor that you feel has had an important influence on the data collection for this form.



# SPC/FFA REGIONAL OBSERVER POLLUTION REPORT

**FORM GEN-6**

REV. 2018

OBSERVER NAME	VESSEL NAME	OBSERVER ID NUMBER	PAGE    OF
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- fill in one form for each pollution incident -

## INCIDENT DETAILS

Ship's DATE and TIME					LATITUDE		N / S		LONGITUDE		E / W		EEZ / HARBOUR	
YY	MM	DD	hh	mm	(dd°mm.mmm')				(ddd°mm.mmm')					
WIND DIRECTION		WIND SPEED			SEA CONDITIONS (C, S, M, R)			CURRENT : (knts and direction °)			OBSERVER'S VESSEL ACTIVITY			
NAME OF OFFENDING VESSEL					IRCS		TYPE OF VESSEL		YOUR POSITION FROM OFFENDING VESSEL Compass Bearing                      Distance (nautical miles)					

## WASTE DUMPED OVERBOARD

Material	Tick each box that applies	Describe Type	Describe Quantity
Plastics	<input type="checkbox"/>		
Metals	<input type="checkbox"/>		
Waste oil	<input type="checkbox"/>		
Chemicals	<input type="checkbox"/>		
General garbage (within 12 miles of shoreline)	<input type="checkbox"/>		
describe:			

## OIL SPILLAGES AND LEAKAGES

Source	Tick each box that applies	Visual Appearance / Colour	Describe Area and Quantity
Vessel Aground / Collision	<input type="checkbox"/>		
Vessel at Anchor / Berth	<input type="checkbox"/>		
Vessel Underway	<input type="checkbox"/>		
Land based source - Describe source	<input type="checkbox"/>		
Other - please specify			

## Abandoned or Lost Fishing Gear

Source	Activity	Describe Gear	Estimate Quantity
Lost during fishing			
Abandoned			
Dumped			

Other comments:

Were there any stickers/ posters displayed to remind the vessel about MARPOL Regulations?

**Y / N**

Did you take any photos?

**Y / N**

If yes, please state the number(s) of the photo frames or files.

## MARPOL Regulations - state

It is illegal for any vessel to discard any form of plastics into the sea at anytime. It is illegal for any vessel to discard any form of oil into the sea less than 50 nautical miles (nm) from shore. It is illegal for any vessel to dump any form of rubbish into the sea within 12 nautical mile of the shore, unless the vessel has a machine on-board (comminuter) to shred and treat the waste. In this case they can release the treated garbage up to 3 nm from the shore.

**POLLUTION REPORT**

*Remember - Fill in one form for each pollution incident. There might be more than one per day.  
If forms run out, report this on the last form and continue recording pollution infringements in diary.*

<b>Observer Name</b>	Put first name first, and your family name last.
<b>Vessel Name</b>	Record the full name of the vessel. Do not use any abbreviations.
<b>Observer ID Number</b>	Use the number assigned by the observer programme e.g. AA 03-01
<b>Page of</b>	Number all GEN-6 pages in sequence from the start until the end of the trip
<b>Date of Incident ( yy / mm /dd)</b>	Date pollution seen in year, month and day. <i>Use ship's time as defined in other observer data collection forms</i>
<b>Time (00.00 hrs)</b>	Report the time using the 24hr clock.
<b>Latitude / Longitude</b>	Record the GPS position of the host vessel when the pollution was first seen.
<b>EEZ / Harbour</b>	Record the EEZ or, for shorebase staff, mark port or Harbour name here.
<b>Wind Direction</b>	The prevailing wind direction. Use degree eg. 90 degrees for an east wind
<b>Wind Speed</b>	Record the prevailing wind speed.
<b>Sea Conditions</b>	C- Calm, S- Slight, M- Moderate, R - Rough.
<b>Current (knts and direction)</b>	If the vessel has a current meter find out what the current strength is.
<b>Observer's vessel activity</b>	State the host (observer's) vessel activity at the time of the pollution incident. Some activities to consider might be: fishing; transshipping; bunkering; transitting; aground.
<b>Name of offending vessel</b>	Make an effort to record the complete and proper name of offending vessel. Be careful not to make any spelling mistakes which may make it difficult to prosecute the vessel if the report goes through legal proceedings.
<b>IRCS</b>	The international callsign is marked in large letters on the side of the boat.
<b>Type of vessel</b>	Consider the full vessel and aircraft codes on the front of Form GEN-1.
<b>Your position from offending vessel.</b>	Use the vessel compass to get direction of the offending vessel from the obs.' vessel. The radar can be used to get an exact distance in nautical miles. Otherwise give your best estimate.
<b>WASTE DUMPED OVERBOARD</b>	
<b>Material</b>	Tick the appropriate data field to show which types of materials were dumped. Only a maximum of two materials if more than one material type dumped over at the same time - e.g.: it dumped plastic and metal at 10:00hrs. If plastic was dumped at 10:00hrs and metal at 16:00hrs - record separately.
<b>Describe type</b>	Give as good a description as possible of the type of dumped material. E.g.: - plastic bags; bait boxes plastic strapping; bait boxes plastic bags; etc.
<b>Describe Quantities</b>	Give a best estimate of the amount dumped. Sometimes this will be easy - e.g., 12 metal oil drums were dumped. At other times the material might be too far away to see the amount. If it is too far away then estimate the amount as well as possible and make note that it is only a rough estimate at distance.
<b>OIL SPILLAGES AND LEAKAGES</b>	
<b>Source</b>	Tick to indicate where the spillage or leak came from
<b>Visual Appearance / Colour</b>	Describe the colour/ thickness/depth of the spill as well as able.
<b>Describe Area and Quantity</b>	Give a best estimate of the size of the spill. The boat could be a size reference - e.g.: it was 4 times bigger than the boat.
<b>Abandoned or Lost Fishing Gear</b>	
<b>Source</b>	There is no tick box. Indicate the source of the abandoned/ lost fishing gear by completing the information for the corresponding row of information. For instance if the source is 'lost during fishing' fill in the activity, describe gear, and estimate quantity on the line to the right of 'lost during fishing'.
<b>Source - Lost during fishing</b>	Use this line if the gear was <u>accidentally</u> lost from the observer's vessel during this trip and the vessel tried to search and recover the gear.
<b>Source - Abandoned</b>	Use this line if the gear was <u>deliberately</u> abandoned from the observer's vessel during the trip, or similarly the vessel made no effort to retrieve the gear.
<b>Source - Dumped</b>	Use this line if the vessel deliberately dumped any fishing gear overboard (either old fishing gear, or some of the gear that was used during the trip).
<b>Activity</b>	Record your vessel's activity when gear was lost, abandoned or dumped. This might be setting, hauling, steaming etc.
<b>Describe Gear</b>	Given information on the gear, especially the type of materials it was made of (e.g. aluminium, nylon rope) and its make up - fishing net 10cm mesh, old monofilament branchline, no hooks
<b>Estimate Quantify</b>	Refer to the total area in square meters. Mention the length, breadth and width.

# SPC/FFA REGIONAL OBSERVER POLLUTION REPORT

**FORM GEN-6**

REV. 2018

OBSERVER NAME	VESSEL NAME	OBSERVER ID NUMBER	PAGE    OF
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- fill in one form for each pollution incident -

## INCIDENT DETAILS

Ship's DATE and TIME					LATITUDE		N / S		LONGITUDE		E / W		EEZ / HARBOUR	
YY	MM	DD	hh	mm	(dd°mm.mmm')				(ddd°mm.mmm')					
WIND DIRECTION		WIND SPEED			SEA CONDITIONS (C, S, M, R)			CURRENT : (knts and direction °)			OBSERVER'S VESSEL ACTIVITY			
NAME OF OFFENDING VESSEL					IRCS		TYPE OF VESSEL		YOUR POSITION FROM OFFENDING VESSEL Compass Bearing                      Distance (nautical miles)					

## WASTE DUMPED OVERBOARD

Material	Tick each box that applies	Describe Type	Describe Quantity
Plastics	<input type="checkbox"/>		
Metals	<input type="checkbox"/>		
Waste oil	<input type="checkbox"/>		
Chemicals	<input type="checkbox"/>		
General garbage (within 12 miles of shoreline)	<input type="checkbox"/>		
describe:			

## OIL SPILLAGES AND LEAKAGES

Source	Tick each box that applies	Visual Appearance / Colour	Describe Area and Quantity
Vessel Aground / Collision	<input type="checkbox"/>		
Vessel at Anchor / Berth	<input type="checkbox"/>		
Vessel Underway	<input type="checkbox"/>		
Land based source - Describe source	<input type="checkbox"/>		
Other - please specify			

## Abandoned or Lost Fishing Gear

Source	Activity	Describe Gear	Estimate Quantity
Lost during fishing			
Abandoned			
Dumped			

Other comments:

Were there any stickers/ posters displayed to remind the vessel about MARPOL Regulations?

**Y / N**

Did you take any photos?

**Y / N**

If yes, please state the number(s) of the photo frames or files.

## MARPOL Regulations - state

It is illegal for any vessel to discard any form of plastics into the sea at anytime. It is illegal for any vessel to discard any form of oil into the sea less than 50 nautical miles (nm) from shore. It is illegal for any vessel to dump any form of rubbish into the sea within 12 nautical mile of the shore, unless the vessel has a machine on-board (comminuter) to shred and treat the waste. In this case they can release the treated garbage up to 3 nm from the shore.

**POLLUTION REPORT**

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<b>Observer Name</b>	Put first name first, and your family name last.
<b>Vessel Name</b>	Record the full name of the vessel. Do not use any abbreviations.
<b>Observer ID Number</b>	Use the number assigned by the observer programme e.g. AA 03-01
<b>Page of</b>	Number all GEN-6 pages in sequence from the start until the end of the trip
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<b>Time (00.00 hrs)</b>	Report the time using the 24hr clock.
<b>Latitude / Longitude</b>	Record the GPS position of the host vessel when the pollution was first seen.
<b>EEZ / Harbour</b>	Record the EEZ or, for shorebase staff, mark port or Harbour name here.
<b>Wind Direction</b>	The prevailing wind direction. Use degree eg. 90 degrees for an east wind
<b>Wind Speed</b>	Record the prevailing wind speed.
<b>Sea Conditions</b>	C- Calm, S- Slight, M- Moderate, R - Rough.
<b>Current (knts and direction)</b>	If the vessel has a current meter find out what the current strength is.
<b>Observer's vessel activity</b>	State the host (observer's) vessel activity at the time of the pollution incident. Some activities to consider might be: fishing; transshipping; bunkering; transitting; aground.
<b>Name of offending vessel</b>	Make an effort to record the complete and proper name of offending vessel. Be careful not to make any spelling mistakes which may make it difficult to prosecute the vessel if the report goes through legal proceedings.
<b>IRCS</b>	The international callsign is marked in large letters on the side of the boat.
<b>Type of vessel</b>	Consider the full vessel and aircraft codes on the front of Form GEN-1.
<b>Your position from offending vessel.</b>	Use the vessel compass to get direction of the offending vessel from the obs.' vessel. The radar can be used to get an exact distance in nautical miles. Otherwise give your best estimate.
<b>WASTE DUMPED OVERBOARD</b>	
<b>Material</b>	Tick the appropriate data field to show which types of materials were dumped. Only a maximum of two materials if more than one material type dumped over at the same time - e.g.: it dumped plastic and metal at 10:00hrs. If plastic was dumped at 10:00hrs and metal at 16:00hrs - record separately.
<b>Describe type</b>	Give as good a description as possible of the type of dumped material. E.g.: - plastic bags; bait boxes plastic strapping; bait boxes plastic bags; etc.
<b>Describe Quantities</b>	Give a best estimate of the amount dumped. Sometimes this will be easy - e.g., 12 metal oil drums were dumped. At other times the material might be too far away to see the amount. If it is too far away then estimate the amount as well as possible and make note that it is only a rough estimate at distance.
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<b>Source</b>	Tick to indicate where the spillage or leak came from
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<b>Source</b>	There is no tick box. Indicate the source of the abandoned/ lost fishing gear by completing the information for the corresponding row of information. For instance if the source is 'lost during fishing' fill in the activity, describe gear, and estimate quantity on the line to the right of 'lost during fishing'.
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<b>Activity</b>	Record your vessel's activity when gear was lost, abandoned or dumped. This might be setting, hauling, steaming etc.
<b>Describe Gear</b>	Given information on the gear, especially the type of materials it was made of (e.g. aluminium, nylon rope) and its make up - fishing net 10cm mesh, old monofilament branchline, no hooks
<b>Estimate Quantify</b>	Refer to the total area in square meters. Mention the length, breadth and width.

# SPC/FFA REGIONAL OBSERVER POLLUTION REPORT

**FORM GEN-6**

REV. 2018

OBSERVER NAME	VESSEL NAME	OBSERVER ID NUMBER	PAGE    OF
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- fill in one form for each pollution incident -

## INCIDENT DETAILS

Ship's DATE and TIME					LATITUDE		N / S		LONGITUDE		E / W		EEZ / HARBOUR	
YY	MM	DD	hh	mm	(dd°mm.mmm')				(ddd°mm.mmm')					
WIND DIRECTION		WIND SPEED			SEA CONDITIONS (C, S, M, R)			CURRENT : (knts and direction °)			OBSERVER'S VESSEL ACTIVITY			
NAME OF OFFENDING VESSEL					IRCS		TYPE OF VESSEL		YOUR POSITION FROM OFFENDING VESSEL Compass Bearing                      Distance (nautical miles)					

## WASTE DUMPED OVERBOARD

Material	Tick each box that applies	Describe Type	Describe Quantity
Plastics	<input type="checkbox"/>		
Metals	<input type="checkbox"/>		
Waste oil	<input type="checkbox"/>		
Chemicals	<input type="checkbox"/>		
General garbage (within 12 miles of shoreline)	<input type="checkbox"/>		
describe:			

## OIL SPILLAGES AND LEAKAGES

Source	Tick each box that applies	Visual Appearance / Colour	Describe Area and Quantity
Vessel Aground / Collision	<input type="checkbox"/>		
Vessel at Anchor / Berth	<input type="checkbox"/>		
Vessel Underway	<input type="checkbox"/>		
Land based source - Describe source	<input type="checkbox"/>		
Other - please specify			

## Abandoned or Lost Fishing Gear

Source	Activity	Describe Gear	Estimate Quantity
Lost during fishing			
Abandoned			
Dumped			

Other comments:

Were there any stickers/ posters displayed to remind the vessel about MARPOL Regulations?

**Y / N**

Did you take any photos?

**Y / N**

If yes, please state the number(s) of the photo frames or files.

--

## MARPOL Regulations - state

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**POLLUTION REPORT**

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<b>Observer Name</b>	Put first name first, and your family name last.
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<b>Page of</b>	Number all GEN-6 pages in sequence from the start until the end of the trip
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<b>Current (knts and direction)</b>	If the vessel has a current meter find out what the current strength is.
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<b>Type of vessel</b>	Consider the full vessel and aircraft codes on the front of Form GEN-1.
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<b>WASTE DUMPED OVERBOARD</b>	
<b>Material</b>	Tick the appropriate data field to show which types of materials were dumped. Only a maximum of two materials if more than one material type dumped over at the same time - e.g.: it dumped plastic and metal at 10:00hrs. If plastic was dumped at 10:00hrs and metal at 16:00hrs - record separately.
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<b>OIL SPILLAGES AND LEAKAGES</b>	
<b>Source</b>	Tick to indicate where the spillage or leak came from
<b>Visual Appearance / Colour</b>	Describe the colour/ thickness/depth of the spill as well as able.
<b>Describe Area and Quantity</b>	Give a best estimate of the size of the spill. The boat could be a size reference - e.g.: it was 4 times bigger than the boat.
<b>Abandoned or Lost Fishing Gear</b>	
<b>Source</b>	There is no tick box. Indicate the source of the abandoned/ lost fishing gear by completing the information for the corresponding row of information. For instance if the source is 'lost during fishing' fill in the activity, describe gear, and estimate quantity on the line to the right of 'lost during fishing'.
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<b>Describe Gear</b>	Given information on the gear, especially the type of materials it was made of (e.g. aluminium, nylon rope) and its make up - fishing net 10cm mesh, old monofilament branchline, no hooks
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# SPC/FFA REGIONAL OBSERVER POLLUTION REPORT

**FORM GEN-6**

REV. 2018

OBSERVER NAME	VESSEL NAME	OBSERVER ID NUMBER	PAGE    OF
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- fill in one form for each pollution incident -

## INCIDENT DETAILS

Ship's DATE and TIME					LATITUDE		N / S		LONGITUDE		E / W		EEZ / HARBOUR	
YY	MM	DD	hh	mm	(dd°mm.mmm')				(ddd°mm.mmm')					
WIND DIRECTION		WIND SPEED			SEA CONDITIONS (C, S, M, R)			CURRENT : (knts and direction °)			OBSERVER'S VESSEL ACTIVITY			
NAME OF OFFENDING VESSEL					IRCS		TYPE OF VESSEL		YOUR POSITION FROM OFFENDING VESSEL Compass Bearing                      Distance (nautical miles)					

## WASTE DUMPED OVERBOARD

Material	Tick each box that applies	Describe Type	Describe Quantity
Plastics	<input type="checkbox"/>		
Metals	<input type="checkbox"/>		
Waste oil	<input type="checkbox"/>		
Chemicals	<input type="checkbox"/>		
General garbage (within 12 miles of shoreline)	<input type="checkbox"/>		
describe:			

## OIL SPILLAGES AND LEAKAGES

Source	Tick each box that applies	Visual Appearance / Colour	Describe Area and Quantity
Vessel Aground / Collision	<input type="checkbox"/>		
Vessel at Anchor / Berth	<input type="checkbox"/>		
Vessel Underway	<input type="checkbox"/>		
Land based source - Describe source	<input type="checkbox"/>		
Other - please specify			

## Abandoned or Lost Fishing Gear

Source	Activity	Describe Gear	Estimate Quantity
Lost during fishing			
Abandoned			
Dumped			

Other comments:

Were there any stickers/ posters displayed to remind the vessel about MARPOL Regulations?

**Y / N**

Did you take any photos?

**Y / N**

If yes, please state the number(s) of the photo frames or files.

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# SPC/FFA REGIONAL OBSERVER POLLUTION REPORT

**FORM GEN-6**

REV. 2018

OBSERVER NAME	VESSEL NAME	OBSERVER ID NUMBER	PAGE    OF
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- fill in one form for each pollution incident -

## INCIDENT DETAILS

Ship's DATE and TIME					LATITUDE		N / S		LONGITUDE		E / W		EEZ / HARBOUR	
YY	MM	DD	hh	mm	(dd°mm.mmm')				(ddd°mm.mmm')					
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NAME OF OFFENDING VESSEL					IRCS		TYPE OF VESSEL		YOUR POSITION FROM OFFENDING VESSEL Compass Bearing                      Distance (nautical miles)					

## WASTE DUMPED OVERBOARD

Material	Tick each box that applies	Describe Type	Describe Quantity
Plastics	<input type="checkbox"/>		
Metals	<input type="checkbox"/>		
Waste oil	<input type="checkbox"/>		
Chemicals	<input type="checkbox"/>		
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describe:			

## OIL SPILLAGES AND LEAKAGES

Source	Tick each box that applies	Visual Appearance / Colour	Describe Area and Quantity
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Land based source - Describe source	<input type="checkbox"/>		
Other - please specify			

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Source	Activity	Describe Gear	Estimate Quantity
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Abandoned			
Dumped			

Other comments:

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**Y / N**

Did you take any photos?

**Y / N**

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It is illegal for any vessel to discard any form of plastics into the sea at anytime. It is illegal for any vessel to discard any form of oil into the sea less than 50 nautical miles (nm) from shore. It is illegal for any vessel to dump any form of rubbish into the sea within 12 nautical mile of the shore, unless the vessel has a machine on-board (comminuter) to shred and treat the waste. In this case they can release the treated garbage up to 3 nm from the shore.

**POLLUTION REPORT**

*Remember - Fill in one form for each pollution incident. There might be more than one per day.  
If forms run out, report this on the last form and continue recording pollution infringements in diary.*

<b>Observer Name</b>	Put first name first, and your family name last.
<b>Vessel Name</b>	Record the full name of the vessel. Do not use any abbreviations.
<b>Observer ID Number</b>	Use the number assigned by the observer programme e.g. AA 03-01
<b>Page of</b>	Number all GEN-6 pages in sequence from the start until the end of the trip
<b>Date of Incident ( yy / mm /dd)</b>	Date pollution seen in year, month and day. <i>Use ship's time as defined in other observer data collection forms</i>
<b>Time (00.00 hrs)</b>	Report the time using the 24hr clock.
<b>Latitude / Longitude</b>	Record the GPS position of the host vessel when the pollution was first seen.
<b>EEZ / Harbour</b>	Record the EEZ or, for shorebase staff, mark port or Harbour name here.
<b>Wind Direction</b>	The prevailing wind direction. Use degree eg. 90 degrees for an east wind
<b>Wind Speed</b>	Record the prevailing wind speed.
<b>Sea Conditions</b>	C- Calm, S- Slight, M- Moderate, R - Rough.
<b>Current (knts and direction)</b>	If the vessel has a current meter find out what the current strength is.
<b>Observer's vessel activity</b>	State the host (observer's) vessel activity at the time of the pollution incident. Some activities to consider might be: fishing; transshipping; bunkering; transitting; aground.
<b>Name of offending vessel</b>	Make an effort to record the complete and proper name of offending vessel. Be careful not to make any spelling mistakes which may make it difficult to prosecute the vessel if the report goes through legal proceedings.
<b>IRCS</b>	The international callsign is marked in large letters on the side of the boat.
<b>Type of vessel</b>	Consider the full vessel and aircraft codes on the front of Form GEN-1.
<b>Your position from offending vessel.</b>	Use the vessel compass to get direction of the offending vessel from the obs.' vessel. The radar can be used to get an exact distance in nautical miles. Otherwise give your best estimate.
<b>WASTE DUMPED OVERBOARD</b>	
<b>Material</b>	Tick the appropriate data field to show which types of materials were dumped. Only a maximum of two materials if more than one material type dumped over at the same time - e.g.: it dumped plastic and metal at 10:00hrs. If plastic was dumped at 10:00hrs and metal at 16:00hrs - record separately.
<b>Describe type</b>	Give as good a description as possible of the type of dumped material. E.g.: - plastic bags; bait boxes plastic strapping; bait boxes plastic bags; etc.
<b>Describe Quantities</b>	Give a best estimate of the amount dumped. Sometimes this will be easy - e.g., 12 metal oil drums were dumped. At other times the material might be too far away to see the amount. If it is too far away then estimate the amount as well as possible and make note that it is only a rough estimate at distance.
<b>OIL SPILLAGES AND LEAKAGES</b>	
<b>Source</b>	Tick to indicate where the spillage or leak came from
<b>Visual Appearance / Colour</b>	Describe the colour/ thickness/depth of the spill as well as able.
<b>Describe Area and Quantity</b>	Give a best estimate of the size of the spill. The boat could be a size reference - e.g.: it was 4 times bigger than the boat.
<b>Abandoned or Lost Fishing Gear</b>	
<b>Source</b>	There is no tick box. Indicate the source of the abandoned/ lost fishing gear by completing the information for the corresponding row of information. For instance if the source is 'lost during fishing' fill in the activity, describe gear, and estimate quantity on the line to the right of 'lost during fishing'.
<b>Source - Lost during fishing</b>	Use this line if the gear was <u>accidentally</u> lost from the observer's vessel during this trip and the vessel tried to search and recover the gear.
<b>Source - Abandoned</b>	Use this line if the gear was <u>deliberately</u> abandoned from the observer's vessel during the trip, or similarly the vessel made no effort to retrieve the gear.
<b>Source - Dumped</b>	Use this line if the vessel deliberately dumped any fishing gear overboard (either old fishing gear, or some of the gear that was used during the trip).
<b>Activity</b>	Record your vessel's activity when gear was lost, abandoned or dumped. This might be setting, hauling, steaming etc.
<b>Describe Gear</b>	Given information on the gear, especially the type of materials it was made of (e.g. aluminium, nylon rope) and its make up - fishing net 10cm mesh, old monofilament branchline, no hooks
<b>Estimate Quantify</b>	Refer to the total area in square meters. Mention the length, breadth and width.

**FORM  
SUP-3**

OBSERVER TRIP ID No.

[illegible]

Observer boards plane	BP	Air Flight	AF
Observer boards ferry	BF	Ferry Trip	FT
Observer arrives in stopover port or town	OS	Observer stopover travelling to or from vessel	SO
Observer arrives in port for start of trip	OA	Observer waiting for vessel departure on shore	OW
Observer boards vessel	BV	Observer transiting home after trip	TR
Vessel departs port with observer	VD	Vessel in Port (observer onboard)	VP
Vessel arrives in port with observer	VA	Vessel at Sea (observer on board)	VS
Observer disembarks vessel	DV		
Observer transfers to a different vessel	OT	Other (describe in comments)	OR



**FORM  
SUP-3**

OBSERVER TRIP ID No.

[illegible]

Observer boards plane	BP	Air Flight	AF
Observer boards ferry	BF	Ferry Trip	FT
Observer arrives in stopover port or town	OS	Observer stopover travelling to or from vessel	SO
Observer arrives in port for start of trip	OA	Observer waiting for vessel departure on shore	OW
Observer boards vessel	BV	Observer transiting home after trip	TR
Vessel departs port with observer	VD	Vessel in Port (observer onboard)	VP
Vessel arrives in port with observer	VA	Vessel at Sea (observer on board)	VS
Observer disembarks vessel	DV		
Observer transfers to a different vessel	OT	Other (describe in comments)	OR



**SPC/FFA REGIONAL OBSERVER  
ADVANCES and CLAIMS FORM**

**FORM  
SUP-4**

REV 2018

OBSERVER NAME	VESSEL NAME	IRCS	PAGE OF
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**ADVANCES**

Advance Claim Ref No.		NAME OF OBSERVER PROGRAMME or FISHING COMPANY MAKING ADVANCE	NAME OF PERSON PROVIDING ADVANCE	SIGNATURE (of person making advance)	State TYPE of ADVANCE (i.e. cash /other)	Curr- ency	Amount
ADV #	Observer Trip ID No						
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							

**OBSERVER EXPENSE CLAIMS FOR REIMBURSEMENT**

Claim item [number (#) each receipt]		Curr- ency	Amount	Claim item [number (#) each receipt]		Curr- ency	Amount
EXP #	Description			#	Description		
1				13			
2				14			
3				15			
4				16			
5				17			
6				18			
7				19			
8				20			
9				21			
10				22			
11				23			
12				24			

**Tick one box only:**

☐

Please make payments to:

.....  
(payee's name)

observer's signature

.....  
(bank) (branch) (account number)

☐

Please arrange for funds to be available on presentation of passport

Written report and data was sent by: ..... on ..... Register  
(hand caried, courier, express mail, etc.) (date) ed mail

I certify that the expense claims and dates of travel and sea days are a true account of expenses and dates of travel; and I verify that my independent report and data collection is a true and correct record of my observations onboard the vessel

SIGNED:

Date:

## Notes on FORM SUP-4

**New for 2016:** All advances received by an observer must be filled in on this form.

Advances will not be reimbursed unless the advances are fully documented on this form and signed off.

### ADVANCES

<b>Advance Claim Reference Number</b>	The advance claim reference number is a mixture of a 'claim' number and the observer trip id number. Combined these numbers help to uniquely identify each observer advance so it can be reimbursed to the person that made the advance. In the future advances will not be reimbursed if they don't have the advance claim reference number. It is important that you notify the person making the advance of the number and get them to sign the form. See below. If possible make sure they get a photocopy of the form after they have signed it. Example of an advance claim reference number : ADV #1: ELE 15-07
<b>NAME OF OBSERVER PROGRAMME or FISHING COMPANY MAKING ADVANCE</b>	State the name of the observer programme or the fishing company that provided the advance. You should include the full contact details for the fishing company in your journal. Remember to record the full mailing address and the email and phone number in the journal.
<b>FULL NAME OF PERSON PROVIDING THE ADVANCE</b>	Clearly record the full name of the person that gave you the advance.
<b>SIGNATURE (of person making advance)</b>	You must get the signature of the person who made the advance. In future the person or their observer programme or fishing company will not be paid back the advance if this form is not filled in. If the advance was sent from overseas your Observer Coordinator must sign the form.
<b>TYPE OF ADVANCE</b>	State if you received cash, traveller's check or a bank transfer.
<b>CURRENCY</b>	State the currency that was received (i.e US for US dollars, YEN for Japanese yen, FJ for Fijian dollars etc)
<b>AMOUNT</b>	State the amount that was received in figures to two decimal places.

### OBSERVER EXPENSE CLAIMS FOR REIMBURSEMENT

- All receipts should be dated and have the name of the company clearly indicated. A cash register receipt must be clear and have the item purchased listed on the receipt if this is not available ask for a hand written receipt with company name on the receipt. Remember to record what the currency is on each receipt.
- If no receipts are available (e.g. taxis) list these items on a sheet with full details, dates and currency and sign the sheet.
- Make sure all claim receipts are numbered and are placed in a separate envelope along with used and/or unused airline tickets. Send the envelope with work books. **Under no circumstances send anything by normal or surface mail**
- Observers are able to claim work related taxi/bus fares, airport tax, safety deck boots, helmets, etc. If you are not sure if you can make a claim for an item, put a claim in and your coordinator will assess the claim.
- Safely package (preferably in a padded envelope) data and workbooks, the envelope containing receipts, photographs and/or any other items and make sure they are hand carried, sent by Courier, or sent by Express Registered Air-Mail. Normal or surface mail can take months and will delay final payment. All costs of sending the packages by courier or express mail are refundable. – **UNDER NO CIRCUMSTANCE MAIL THESE ARTICLES BY NORMAL OR SURFACE MAIL** –
- Fax a copy of this form to your main office or as advised by your coordinator. Send the original copy with the receipts.
- Although DSA (per diem / travel and accommodation allowances) cover accommodation copies of hotel/motel receipts that show clearly the dates stayed, must be sent in. Do not send in receipts for food purchases or personal items.

**FORM  
SUP-4**

REV 2018

JULY 2010			
OBSERVER NAME	VESSEL NAME	IRCS	PAGE OF

Advance Claim Ref No.		NAME OF OBSERVER PROGRAMME or FISHING COMPANY MAKING ADVANCE	NAME OF PERSON PROVIDING ADVANCE	SIGNATURE (of person making advance)	State TYPE of ADVANCE (i.e. cash /other)	Curr- ency	Amount
ADV #	Observer Trip ID No						
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Claim item [number (#) each receipt]		Curr-ency	Amount	Claim item [number (#) each receipt]		Curr-ency	Amount
EXP #	Description			#	Description		
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6				18			
7				19			
8				20			
9				21			
10				22			
11				23			
12				24			

**Tick one box only:**

<input type="checkbox"/> Please make payments to: ..... <i>(payee's name)</i>	<div style="border: 1px solid black; width: 150px; height: 40px;"></div> <i>observer's signature</i>
..... <i>(bank )</i> ..... <i>(branch )</i> ..... <i>(account number)</i>	
<input type="checkbox"/> Please arrange for funds to be available on presentation of passport	

---

Written report and  
data was sent by: ....., on ....., Register  
*(hand caried, courier, express mail, etc.)*      *(date)* ed mail .....

I certify that the expense claims and dates of travel and sea days are a true account of expenses and dates of travel; and I verify that my independent report and data collection is a true and correct record of my observations onboard the vessel

SIGNED: \_\_\_\_\_ Date: \_\_\_\_\_

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### ADVANCES

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- Make sure all claim receipts are numbered and are placed in a separate envelope along with used and/or unused airline tickets. Send the envelope with work books. **Under no circumstances send anything by normal or surface mail**
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- Safely package (preferably in a padded envelope) data and workbooks, the envelope containing receipts, photographs and/or any other items and make sure they are hand carried, sent by Courier, or sent by Express Registered Air-Mail. Normal or surface mail can take months and will delay final payment. All costs of sending the packages by courier or express mail are refundable. – **UNDER NO CIRCUMSTANCE MAIL THESE ARTICLES BY NORMAL OR SURFACE MAIL** –
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- Although DSA (per diem / travel and accommodation allowances) cover accommodation copies of hotel/motel receipts that show clearly the dates stayed, must be sent in. Do not send in receipts for food purchases or personal items.





**FOR TAGS RECOVERED ON BOARD DURING YOUR TRIP,  
EVEN IF YOU ARE NOT THE FINDER,  
THE RECOVERY INFORMATION MUST BE RECORDED IN YOUR WORKBOOK.**

**DO NOT REMOVE THE FORM FROM YOUR WORKBOOK !  
AND PROVIDE A COPY OF THE INFORMATION TO THE FINDER.**  
(either by using the tag recovery envelopes or by copying the data on another paper or forms)

What do you do if you find a tagged fish during fishing time?

- Ask permission to put the fish aside.
- Verify that there is no archival tag in the belly. You should be able to see the antenna of the archival tag sticking out.
- If there is an archival tag or a white tag, do not remove the tags from the fish. Place the fish in a freezer. In the PS2, note all information related to the behaviour of the school. Contact SPC immediately. Bring the fish to the closest fisheries office for storage and sampling of the fish.
- Measure the fish. If possible, weigh the fish.
- Remove entirely the tag from the fish. Make sure that the dart doesn't remain inside the flesh of the fish.
- Fill in the tag recovery form and report the exact date and position of the catch.
- If you have access to a freezer, you can collect biological samples (otoliths, first dorsal spine, stomach, gonads, muscle, liver).

What do you do if you find a tagged fish during a well transfer or during transhipment?

- Ask permission to put the fish aside.
- Note the well number and tag number.
- Verify that there is no archival tag in the belly. See above for further information regarding archival tagged fish.
- Measure the fish. If possible, weigh the fish.
- Remove entirely the tag from the fish. Make sure that the dart doesn't remain inside the flesh of the fish.
- Fill in the tag recovery form
- If there were several sets in the well, report the period and the area of catch that include all the sets.
- If you have access to a freezer, you can collect biological samples (otoliths, first dorsal spine, stomach, gonads, muscle, liver).

What do you do if the crew gives you a tag?

- Ask when they found the tagged fish and all possible questions to recover information relative to the recovery. If the date when the tag was found is not precise, you can at least enter the month and the year of the catch.
- If the catch position cannot be retrieved, try to at least describe the region where the tagged fish was caught.
- If the crew gives you an approximate date, try to access the vessel's logbook to find out where the boat was around that date and use the estimate section of the form to report the position.
- If the tag was traded and the tagged fish was recaptured by another fishing vessel that the one you are observing on please note the information in the general comment section of the form.
- Note all the recovery information in your workbook, provide a copy to the finder (report data on another form, or tag recovery envelope). Do not take the tag from the finder.
- On your tag recovery form, in the section 'Tag provided with this form' place a cross in 'No' and specify where the crew will collect his reward.
- Upon Arrival at port you can assist the crew to collect his reward.

## Rewards

In each main port you can find a **Tag Recovery Officer (TRO)**, they are able to distribute reward for recovered tags.

**If a crew member on the boat finds a tag**, fill out the tag recovery form with him and give the tag back to the finder with a copy of the data and advise him where to collect his reward in the next major port. Tag recoveries may also be reported to SPC by email ([tagging@spc.int](mailto:tagging@spc.int)), or on a web-based form at: [www.spc.int/tagging](http://www.spc.int/tagging)

You can inform the captain and the crew that they can use the website if they recover tags in the future. Observers must always use the recovery forms in the workbook to report tag recoveries. At the end of the trip if you have extra forms, you can remove them from your workbook and provide them to the captain.

# Reward Collection Locations

## American Samoa

1. CIFFO – Cook Island Field Fisheries Office PAGO  
PAGO (Contact: Dimary Stowers)

## China

1. China Fisheries Association, BEIJING  
(Contact: Zhao Gang)
2. Ningbo Poseidon Food Company NINGBO  
(Contact: Shirley Chen)

## Cook Islands

1. Ministry of Marine Resources RAROTONGA  
(Contact: Andrew Jones)

## Ecuador

1. Inter American Tropical Tuna Commission  
IATTC/CIAT in MANTA (Contact: Erick Largacha)

## Federated States of Micronesia

1. Secretariat of the Pacific Community POHNPEI  
(Contact: Janelle Anson)
2. National Oceanic Resource Management Authority  
POHNPEI (Contact: Ricky Nauruhn)

## Fiji

1. Pacific Community SUVA (Contact: Front Office)
2. Ministry of Fisheries SUVA (Contact: Apenisa  
Sauturaga)

## Indonesia

1. Research Centre for Capture Fisheries, JAKARTA  
(Contact: Anung Widodo)

## Japan

1. National Research Institute of Far Seas Fisheries  
SHIMIZU (Contact: Junji Kinoshita)

## Kiribati

1. Ministry of Fisheries & Marine Resource  
Development, Bairiki TARAWA (Contact: Mamera  
Afeleti / Benaia Bauro / Tataua Rabunataai)
2. Ministry of Fisheries & Marine Resource  
Development,  
CHRISTMAS ISLAND (Contact: Taratau Kirata)

## Korea

1. National Institute for Fisheries Science BUSAN  
(Contact: Seon Jae Wang (황선재))

## Marshall Islands

1. Marshall Islands Marine Resources Authority  
MAJURO  
(Contact: Berry Muller/Mark Bigler)

## New Caledonia

1. Pacific Community NOUMEA  
(Contact: Caroline Sanchez)

## Papua New Guinea

1. National Fisheries Authority PORT MORESBY  
(Contact: Benthly Sabub)
2. National Fisheries Authority LAE (Contact: Billy  
Pangi)
3. Frabelle PNG LAE (Contact: Celia Batobato)

4. National Fisheries Authority MADANG  
(Contact: Clement Kuag)
5. RD Fishing PNG VIDAR (Contact: Sammy Rivera)
6. National Fisheries Authority WEWAK  
(Contact: Andrew Rahiria)
7. South Sea Tuna Corporation WEWAK  
(Contact: Eldwin Umusig)
8. National Fisheries Authority RABUL  
(Contact: Ellison Semi / Ezekiel Pue)

## Palau

1. Bureau of Marine Resources KOROR  
(Contact: Kathy Sisor)

## Philippines

1. Bureau of Fisheries & Aquatic Resources MANILA  
(Contact: Noel Barut / Elaine Garvilles)
2. Bureau of Fisheries & Aquatic Resources GENERAL  
SANTOS (Contact: Glennville Castrence / Ian Medel  
Lipio)
3. Bureau of Fisheries & Aquatic Resources DAVAO  
(Contact: Front Office)

## Seychelles

1. Indian Ocean Tuna Commission SEYCHELLES  
(Contact: Paul Debruyn)

## Solomon Islands

1. Ministry of Fisheries & Marine Resources HONIARA  
(Contact: Patteson Clifford / Harold Vilia)
2. Forum Fisheries Agency HONIARA  
(Contact: Ambrose Orianihaa)
3. Soltai Fishing NORO (Contact: Solomon Kakana)
4. Ministry of Fisheries & Marine Resources NORO  
(Contact: Derick Suimae)

## Taiwan

1. 高雄 台灣區遠洋鯷鮪圍網漁船魚類輸出業同業公會 (聯繫：蔡佳昌)
2. 高雄 台灣區遠洋鮪延繩釣漁船魚類輸出業同業公會 (聯繫：林涵宇)
3. 台北 中華民國對外漁業合作發展協會 (聯繫：劉弘一 / 於仁汾)

## Thailand

1. Thailand Department of Fisheries, SAMUTSAKOM  
(Contact: Suwimon Keerativiriyaporn)

## Tuvalu

1. Ministry of Natural Resources, FUNAFUTI  
(Contact: Onosai Takataka)

## United States of America

1. Inter American Tropical Tuna Commission SAN  
DIEGO (Contact: Dan Fuller)
2. National Oceanic and Atmospheric Administration  
HONOLULU (Contact: David Itano)

## Vietnam

1. Phu Yen Province (Contact: Le Duc Tuong)
2. Binh Dinh Province (Contact: Nguyen Duy Lam)
3. Khanh Hoa Province (Contact: Vo Khac En)



For advices and for archival tag recovery, contact the Tagging Recovery Officer Coordinator:  
Caroline Sanchez - [Carolines@spc.int](mailto:Carolines@spc.int) / (+687 242227)

Our Tuna is  
our Future !

# WANTED

Better Science  
is better  
Management !

NEW CASH REWARD

Onboard  
LONGLINERS

## Found a fish with a tag ?

Now, if it's orange or white, we'd like the whole fish!

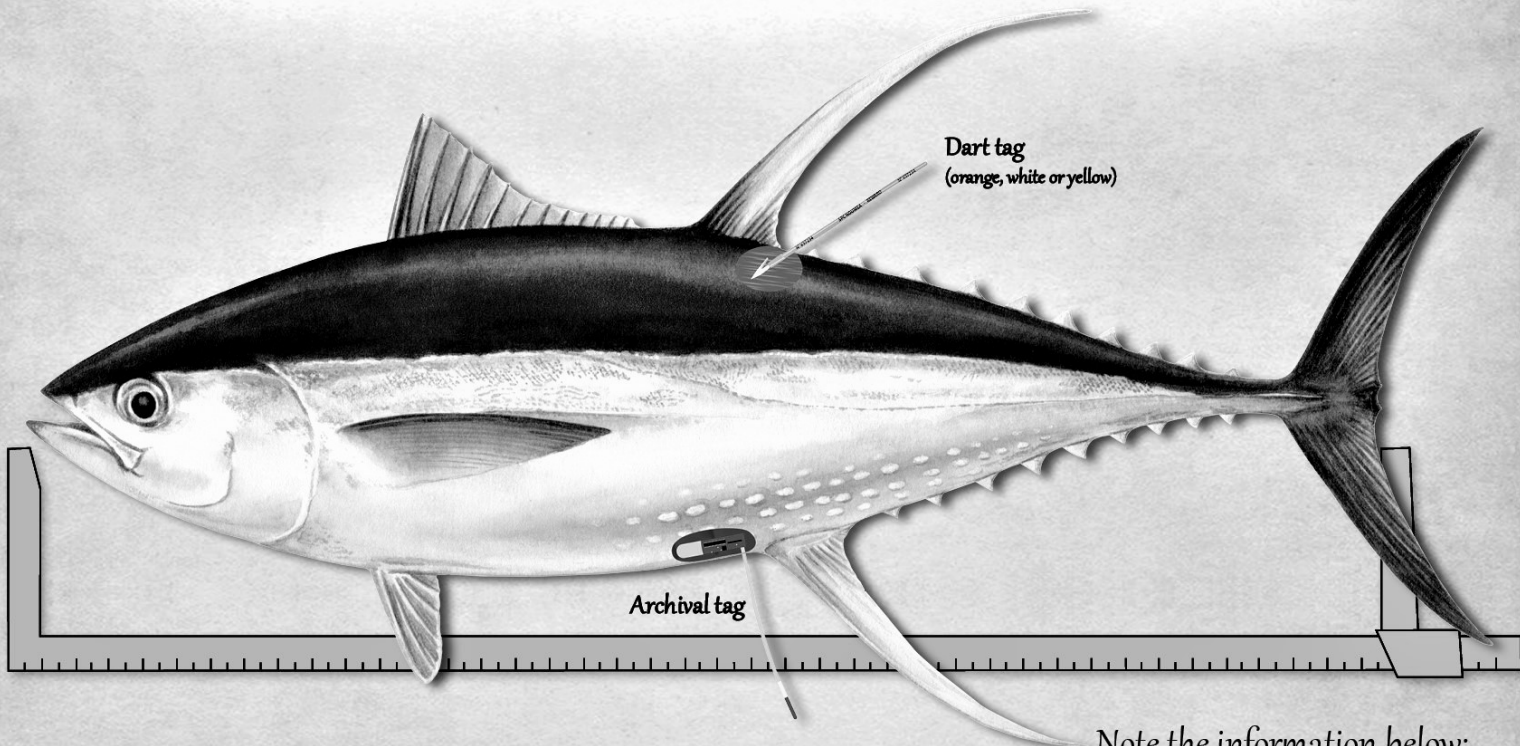
→ Do not gill and gut the fish !

→ We buy the whole fish

Leave the tags in the fish.

→ Contact SPC by email.

→ Bring the fish to the closest  
fisheries office for collection of samples.



- Take a picture of the fish with the tag still inside the fish on top of a deck tape.
- Measure the fish accurately.
- Fill the tag recovery form.
- Seek assistance from the observer if onboard.

Note the information below:

- Date found
- Tag number
- Species
- Fork length (as shown above)
- Date and position of catch
- Catcher vessel name + gear type
- finder name + contact details
- + observer name (if onboard)

NEW REWARDS

**ORANGE  
TAG** + whole fish

**\$250** + **\$10** + **\$10/KG**  
for electronic tag for orange tag fish weight

**WHITE  
TAG** + whole fish

**\$100** + **\$10/KG**  
fish weight

**YELLOW  
TAG**

**\$10**

or a tagging cap or a tagging shirt

To receive the reward contact the local fisheries office.  
If a tag is given to you by someone else, please inform us.

[www.spc.int/tagging](http://www.spc.int/tagging) - [carolines@spc.int](mailto:carolines@spc.int)



Pacific Community  
Communauté  
du Pacifique



Note the 1<sup>st</sup> date when the tag has been found.  
If you don't have an exact date, place a dash in the day field and note the month and/or year.

If there is more than 1 tag recovered during the trip, number each page.

WHERE FOUND:

where did you find the tagged species?

☐ Port  
☐ Fish market

☐ Cold storage

ACTIVITY WHEN FOUND:

What were you doing when you found the tagged species?

☐ Unloading at port

WELL NUMBER

WHERE FISH FOUND:

(If Applicable)

### TAGGED SPECIES INFORMATION

If a tagged fish is found during transfer/transshipment, note the well number.

SPECIES:

SPECIES RELIABILITY:

☐ Confirmed

☒ Guess

Are you sure about the identification?

LENGTH 1 : (cm)

LENGTH 2 : applicable

NO length information ☒

If there is no length, place a cross and move to the next section.

For fish and turtles, note 1 length : UF for tuna species, CL for turtles.

For birds, note 2 lengths BL and WL.

If there is no weight, place a cross and move to the next section.

WEIGHT (kg)

NO weight information ☒

HOW WEIGHED?

Choose one option to describe the processed state.

PROCESSED STATE WHEN WEIGHED:

☐ Whole weight

☐ Gilled & gutted

☐ Other... please specify:

If you know exactly when and where the tagged species was caught.

If you find the tagged specie in a well composed of several sets or if the finder is not sure of position and date of catch.

DATE

Exact ☒

DD MM YY  
05 02 11

Estimated ☒

From DD MM YY to DD MM YY  
01 03 11 to 15 03 11

POSITION

Exact ☒

Latitude

dd

mm.mmm

N / S

06

02.300

N

Longitude

ddd

mm.mmm

E / W

140

04.600

E

Estimated ☒

Record 2 lines of latitude and 2 of longitude to form box in which tag was likely recovered

Latitude

Max

dd

mm.mmm

N / S

05°

02.500

N

Latitude

Min

dd

mm.mmm

N / S

00°

50.600

N

Longitude

ddd

mm.mmm

E / W

145

12.300

E

Longitude

ddd

mm.mmm

E / W

150

20.450

E

FISH

Name of the vessel that caught the tagged species

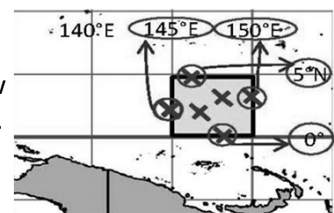
VESSEL NAME:

FISHING METHOD:

If on a PS or PL, enter the school type. If found in well with several school types, place a cross in all options.

SCHOOL TYPE:

Use the chart on the back of the form. Place a cross for the position of each set, then draw a box that includes all the sets. Report in the table the two longitudes and the two latitudes creating the box.



### TRANSSHIPMENT INFORMATION/ Carrier only (if tag found during transshipment)

If the recovery of a tagged fish involve a carrier/reefer, fill this section. If the unloading/transshipment occurs at port, note the name of the port, if it is at sea note the country code (EEZ of the country).

FROM DD MM YY to DD MM YY

If transshipment/set share occur the same day, note only 1 date.

Country where the recovery will be reported or port where you disembarked.

COUNTRY OF RECOVERY:

TAG PROVIDED WITH THIS FORM

☐ Yes

☒ No

(tag kept for reward)

TYPE OF REWARD

☒ Not given

If you or the finder haven't received a reward, cross "Not Given".

FINDER ADDRESS:

If you can't provide an address, note the fishing company.

Specify if the crew keep the tag and where he will collect his reward.

FORM COMPLETED BY: Your name

COMMENTS:

Use this section to record any relevant information not provided on the form. Example: Archival tag number/copy of the data provided to the tag finder/tag traded with another vessel/tags left on the released turtle.

You can attach the tag here :



Type of tag

Reward

# SINGLE TAG RECOVERY FORM

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REVISED SPC - Feb. 2017

## CRITICAL TAG INFORMATION

TAG NUMBER:	DATE WHEN TAG FOUND:		
	YY	MM	DD

WHERE FOUND:	<input type="checkbox"/> Fishing vessel	<input type="checkbox"/> Reefer / Transfer / Carrier	<input type="checkbox"/> Port Fish market	<input type="checkbox"/> Cold storage
ACTIVITY WHEN FOUND:	<input type="checkbox"/> Fishing	<input type="checkbox"/> Well transfer	<input type="checkbox"/> Transshipment	<input type="checkbox"/> Unloading at port
				WELL NUMBER WHERE FISH FOUND: (If Applicable)

## TAGGED SPECIES INFORMATION

SPECIES:		SPECIES RELIABILITY: <input type="checkbox"/> Confirmed <input type="checkbox"/> Guessed	
LENGTH 1 : (cm)	LENGTH 2 : if applicable (cm)	NO length Information <input type="checkbox"/>	HOW MEASURED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
		WHO MEASURED? <input type="checkbox"/> Port sampler <input type="checkbox"/> Observer <input type="checkbox"/> Other.... <i>Please specify:</i>	
Length 1 code:	Length 2 code:	PROCESSED STATE WHEN MEASURED: <input type="checkbox"/> Alive <input type="checkbox"/> Fresh and dead <input type="checkbox"/> Frozen <input type="checkbox"/> Frozen then thawed	
WEIGHT: (kg)	NO weight information <input type="checkbox"/>	HOW WEIGHED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated	
		PROCESSED STATE WHEN WEIGHED: <input type="checkbox"/> Whole weight <input type="checkbox"/> Gilled & gutted <input type="checkbox"/> Other.... <i>Please specify:</i>	

## TAGGED SPECIES CATCH INFORMATION / Date and position when tagged species was caught by the fishing vessel

DATE	Exact <input type="checkbox"/>	YY	MM	DD	Estimated <input type="checkbox"/>	From	YY	MM	DD	to	YY	MM	DD
POSITION	Exact <input type="checkbox"/>	dd mm.mmm N / S			Estimated <input type="checkbox"/>	Record 2 lines of latitude and 2 of longitude to form area of catch (box) in which tag was likely recovered							
		Latitude				dd	mm.mmm	N / S	ddd mm.mmm E / W				
		Longitude				ddd	mm.mmm	E / W	ddd mm.mmm E / W				
		Latitude				ddd	mm.mmm	E / W	ddd mm.mmm E / W				
or DESCRIBE FISHING AREA (If NO Latitude and longitude provided above):													

## FISHERY INFORMATION (Catcher / Fishing vessel that caught the tagged species)

VESSEL NAME:	FLAG:
FISHING METHOD:	<input type="checkbox"/> Longline <input type="checkbox"/> Purse seine <input type="checkbox"/> Troll <input type="checkbox"/> Handline <input type="checkbox"/> Gill net Other: _____
SCHOOL TYPE:	<input type="checkbox"/> Log <input type="checkbox"/> Free school <input type="checkbox"/> Anchored FAD <input type="checkbox"/> Drifting FAD FAD no: _____

## TRANSSHIPMENT INFORMATION/ Carrier only (fill this section only if tagged species found during set share / transshipment / unloading)

NAME OF CARRIER:	FLAG:	DATE OF TRANSSHIPMENT FROM FISHING VESSEL TO CARRIER:	YY	MM	DD	to	YY	MM	DD
LOCATION OF TRANSSHIPMENT FROM FISHING VESSEL TO CARRIER (EEZ/Port):	TRANSHIPMENT POSITION:	Latitude	dd	mm.mmm	N / S	Longitude	ddd	mm.mmm	E / W

## FINDER INFORMATION / finder details for lottery

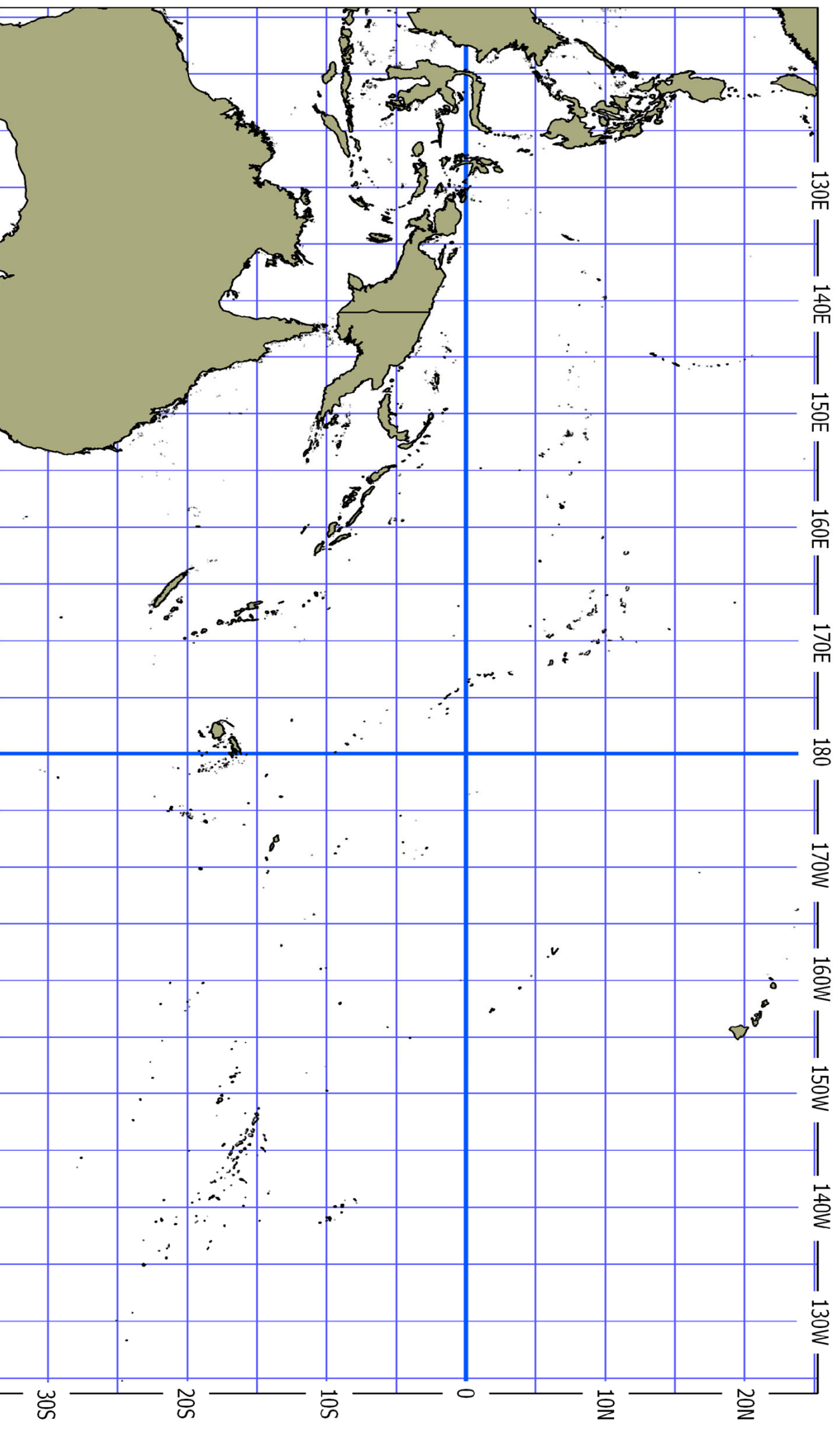
FINDER NAME:	FINDER ADDRESS:
COUNTRY OF RECOVERY:	RECOVERY INFORMATION RECEIVED AT/ON (Cannery/Company/Agency name/vessel name):
TAG PROVIDED WITH THIS FORM:	<input type="checkbox"/> Yes <input type="checkbox"/> No (tag kept by finder IF NO, specify expected reward for reward purpose) location for finder (Port/Country):
TYPE OF REWARD:	<input type="checkbox"/> Not given <input type="checkbox"/> T-shirt <input type="checkbox"/> Cap <input type="checkbox"/> Cash - amount: _____ FORM COMPLETED BY:

COMMENTS: IF A TAGGED TURTLE / TAGGED BIRD WAS RELEASED ALIVE, DID YOU LEAVE THE TAGS ON ? Specify below.

ARCHIVAL TAG NUMBER (If applicable):

Type of tag	Reward
Yellow tag, Orange tag or Green tag	- 10\$ or Cap or T-shirt
Internal archival tag	- 250\$





**Please use this map of the Pacific Ocean with a grid of 5 squares to determine where the tagged species has been caught (Point or area)**

If you have several dates and positions corresponding to sets, plot the latitude and longitude of all the sets (make a cross where each set has been deployed). Write down the set number and the date next to the set position (cross). Draw a box which includes all the sets and record the maximum and minimum latitude and longitude on the first page.

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# SINGLE TAG RECOVERY FORM

PAGE / OF

REVISED SPC - Feb. 2017

## CRITICAL TAG INFORMATION

TAG NUMBER:	DATE WHEN TAG FOUND:		
	YY	MM	DD

WHERE FOUND:	<input type="checkbox"/> Fishing vessel	<input type="checkbox"/> Reefer / Transfer / Carrier	<input type="checkbox"/> Port Fish market	<input type="checkbox"/> Cold storage
ACTIVITY WHEN FOUND:	<input type="checkbox"/> Fishing	<input type="checkbox"/> Well transfer	<input type="checkbox"/> Transshipment	<input type="checkbox"/> Unloading at port
				WELL NUMBER WHERE FISH FOUND: (If Applicable)

## TAGGED SPECIES INFORMATION

SPECIES:		SPECIES RELIABILITY: <input type="checkbox"/> Confirmed <input type="checkbox"/> Guessed	
LENGTH 1 : (cm)	LENGTH 2 : if applicable (cm)	NO length Information <input type="checkbox"/>	HOW MEASURED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
		WHO MEASURED? <input type="checkbox"/> Port sampler <input type="checkbox"/> Observer <input type="checkbox"/> Other.... <i>Please specify:</i>	
Length 1 code:	Length 2 code:	PROCESSED STATE WHEN MEASURED: <input type="checkbox"/> Alive <input type="checkbox"/> Fresh and dead <input type="checkbox"/> Frozen <input type="checkbox"/> Frozen then thawed	
WEIGHT: (kg)	NO weight information <input type="checkbox"/>	HOW WEIGHED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated	
		PROCESSED STATE WHEN WEIGHED: <input type="checkbox"/> Whole weight <input type="checkbox"/> Gilled & gutted <input type="checkbox"/> Other.... <i>Please specify:</i>	

## TAGGED SPECIES CATCH INFORMATION / Date and position when tagged species was caught by the fishing vessel

DATE	Exact <input type="checkbox"/>	YY	MM	DD	Estimated <input type="checkbox"/>	From	YY	MM	DD	to	YY	MM	DD
POSITION	Exact <input type="checkbox"/>	dd mm.mmm N / S			Estimated <input type="checkbox"/>	Record 2 lines of latitude and 2 of longitude to form area of catch (box) in which tag was likely recovered							
		Latitude				dd mm.mmm N / S			ddd mm.mmm E / W				
		Longitude				Latitude			Longitude				
		ddd mm.mmm E / W				ddd mm.mmm E / W			ddd mm.mmm E / W				
or DESCRIBE FISHING AREA (If NO Latitude and longitude provided above):													

## FISHERY INFORMATION (Catcher / Fishing vessel that caught the tagged species)

VESSEL NAME:	FLAG:
FISHING METHOD:	<input type="checkbox"/> Longline <input type="checkbox"/> Purse seine <input type="checkbox"/> Troll <input type="checkbox"/> Handline <input type="checkbox"/> Gill net Other: _____
SCHOOL TYPE:	<input type="checkbox"/> Log <input type="checkbox"/> Free school <input type="checkbox"/> Anchored FAD <input type="checkbox"/> Drifting FAD FAD no: _____

## TRANSSHIPMENT INFORMATION/ Carrier only (fill this section only if tagged species found during set share / transshipment / unloading)

NAME OF CARRIER:	FLAG:	DATE OF TRANSSHIPMENT FROM FISHING VESSEL TO CARRIER:	YY	MM	DD	to	YY	MM	DD	
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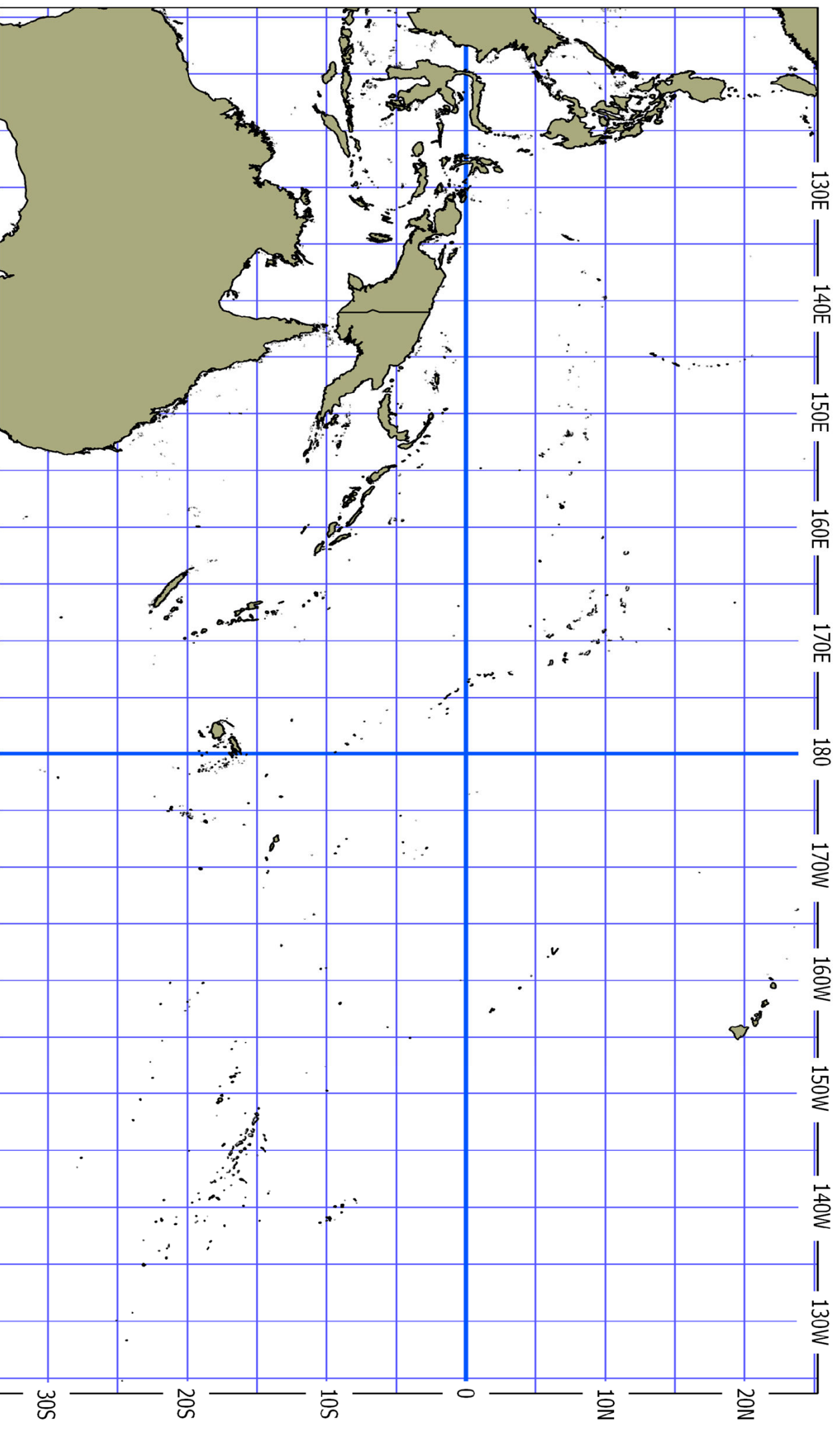
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COUNTRY OF RECOVERY:	RECOVERY INFORMATION RECEIVED AT/ON (Cannery/Company/Agency name/vessel name):
TAG PROVIDED WITH THIS FORM:	<input type="checkbox"/> Yes <input type="checkbox"/> No (tag kept by finder IF NO, specify expected reward for reward purpose) location for finder (Port/Country):
TYPE OF REWARD:	<input type="checkbox"/> Not given <input type="checkbox"/> T-shirt <input type="checkbox"/> Cap <input type="checkbox"/> Cash - amount: _____ FORM COMPLETED BY:

COMMENTS: IF A TAGGED TURTLE / TAGGED BIRD WAS RELEASED ALIVE, DID YOU LEAVE THE TAGS ON ? Specify below.

ARCHIVAL TAG NUMBER (If applicable):

Type of tag	Reward
Yellow tag, Orange tag or Green tag	- 10\$ or Cap or T-shirt
Internal archival tag	- 250\$



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# SINGLE TAG RECOVERY FORM

PAGE / OF

REVISED SPC - Feb. 2017

## CRITICAL TAG INFORMATION

TAG NUMBER:	DATE WHEN TAG FOUND:		
	YY	MM	DD

WHERE FOUND:	<input type="checkbox"/> Fishing vessel	<input type="checkbox"/> Reefer / Transfer / Carrier	<input type="checkbox"/> Port Fish market	<input type="checkbox"/> Cold storage
ACTIVITY WHEN FOUND:	<input type="checkbox"/> Fishing	<input type="checkbox"/> Well transfer	<input type="checkbox"/> Transshipment	<input type="checkbox"/> Unloading at port
				WELL NUMBER WHERE FISH FOUND: (If Applicable)

## TAGGED SPECIES INFORMATION

SPECIES:		SPECIES RELIABILITY: <input type="checkbox"/> Confirmed <input type="checkbox"/> Guessed	
LENGTH 1 : (cm)	LENGTH 2 : if applicable (cm)	NO length Information <input type="checkbox"/>	HOW MEASURED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
		WHO MEASURED? <input type="checkbox"/> Port sampler <input type="checkbox"/> Observer <input type="checkbox"/> Other.... <i>Please specify:</i>	
Length 1 code:	Length 2 code:	PROCESSED STATE WHEN MEASURED: <input type="checkbox"/> Alive <input type="checkbox"/> Fresh and dead <input type="checkbox"/> Frozen <input type="checkbox"/> Frozen then thawed	
WEIGHT: (kg)	NO weight information <input type="checkbox"/>	HOW WEIGHED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated	
		PROCESSED STATE WHEN WEIGHED: <input type="checkbox"/> Whole weight <input type="checkbox"/> Gilled & gutted <input type="checkbox"/> Other.... <i>Please specify:</i>	

## TAGGED SPECIES CATCH INFORMATION / Date and position when tagged species was caught by the fishing vessel

DATE	Exact <input type="checkbox"/>	YY	MM	DD	Estimated <input type="checkbox"/>	From	YY	MM	DD	to	YY	MM	DD
POSITION	Exact <input type="checkbox"/>	dd mm.mmm N / S			Estimated <input type="checkbox"/>	Record 2 lines of latitude and 2 of longitude to form area of catch (box) in which tag was likely recovered							
		Latitude				dd mm.mmm N / S			ddd mm.mmm E / W				
		ddd mm.mmm E / W				Latitude			ddd mm.mmm E / W				
		Longitude				Min			Max				
or DESCRIBE FISHING AREA (If NO Latitude and longitude provided above):													

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VESSEL NAME:	FLAG:
FISHING METHOD:	<input type="checkbox"/> Longline <input type="checkbox"/> Purse seine <input type="checkbox"/> Troll <input type="checkbox"/> Handline <input type="checkbox"/> Gill net Other: _____
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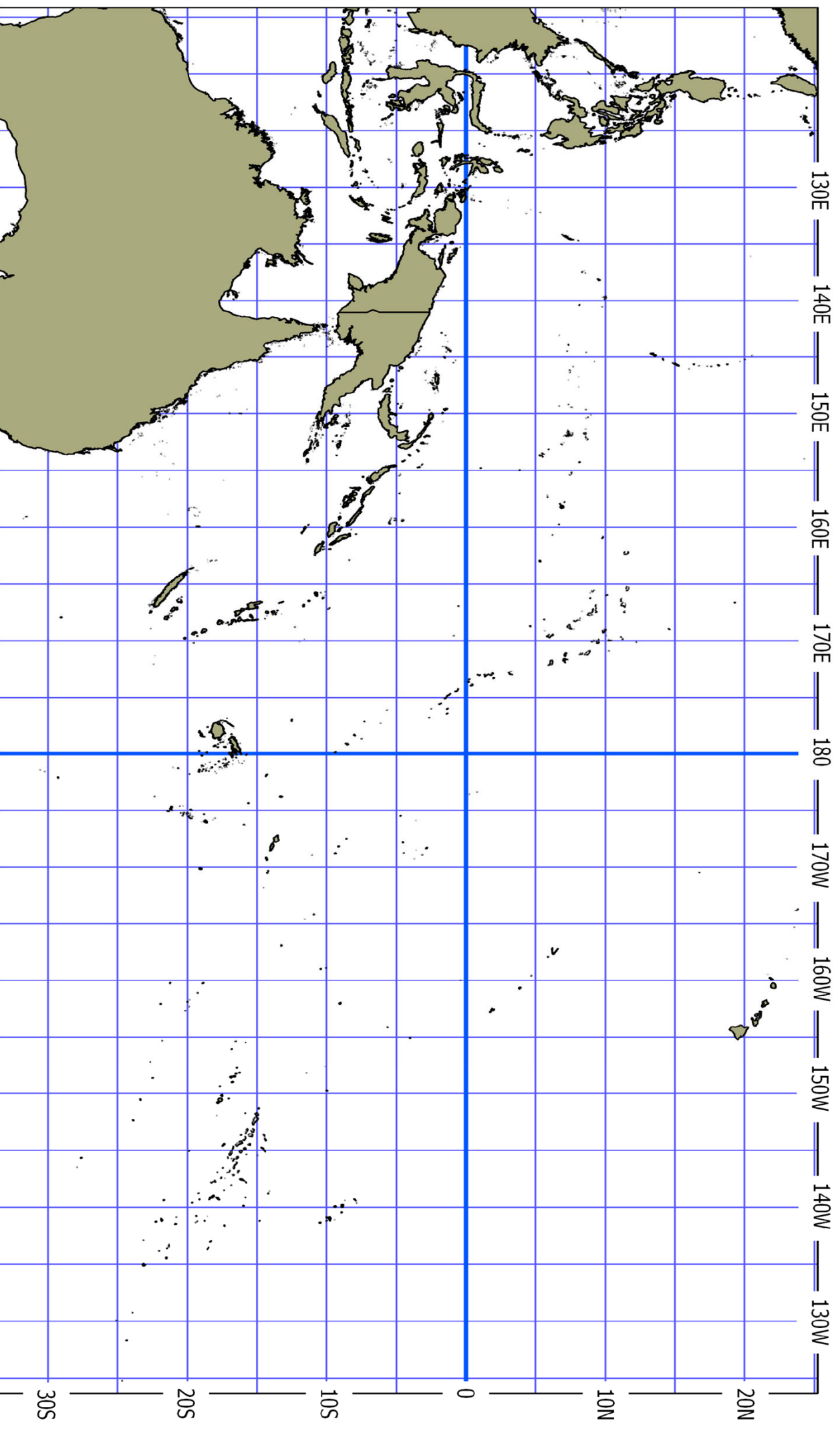
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# SINGLE TAG RECOVERY FORM

PAGE / OF

REVISED SPC - Feb. 2017

## CRITICAL TAG INFORMATION

TAG NUMBER:	DATE WHEN TAG FOUND:		
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WHERE FOUND:	<input type="checkbox"/> Fishing vessel	<input type="checkbox"/> Reefer / Transfer / Carrier	<input type="checkbox"/> Port Fish market	<input type="checkbox"/> Cold storage
ACTIVITY WHEN FOUND:	<input type="checkbox"/> Fishing	<input type="checkbox"/> Well transfer	<input type="checkbox"/> Transshipment	<input type="checkbox"/> Unloading at port
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## TAGGED SPECIES INFORMATION

SPECIES:		SPECIES RELIABILITY: <input type="checkbox"/> Confirmed <input type="checkbox"/> Guessed	
LENGTH 1 : (cm)	LENGTH 2 : if applicable (cm)	NO length Information <input type="checkbox"/>	HOW MEASURED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
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WEIGHT: (kg)	NO weight information <input type="checkbox"/>	HOW WEIGHED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated	
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POSITION	Exact <input type="checkbox"/>	dd mm.mmm N / S			Estimated <input type="checkbox"/>	Record 2 lines of latitude and 2 of longitude to form area of catch (box) in which tag was likely recovered							
		Latitude				dd mm.mmm N / S			ddd mm.mmm E / W				
		ddd mm.mmm E / W				Latitude			ddd mm.mmm E / W				
		Longitude				Min			Max				
or DESCRIBE FISHING AREA (If NO Latitude and longitude provided above):													

## FISHERY INFORMATION (Catcher / Fishing vessel that caught the tagged species)

VESSEL NAME:	FLAG:
FISHING METHOD:	<input type="checkbox"/> Longline <input type="checkbox"/> Purse seine <input type="checkbox"/> Troll <input type="checkbox"/> Handline <input type="checkbox"/> Gill net Other: _____
SCHOOL TYPE:	<input type="checkbox"/> Log <input type="checkbox"/> Free school <input type="checkbox"/> Anchored FAD <input type="checkbox"/> Drifting FAD FAD no: _____

## TRANSSHIPMENT INFORMATION/ Carrier only (fill this section only if tagged species found during set share / transshipment / unloading)

NAME OF CARRIER:	FLAG:	DATE OF TRANSSHIPMENT FROM FISHING VESSEL TO CARRIER:	YY	MM	DD	to	YY	MM	DD
LOCATION OF TRANSSHIPMENT FROM FISHING VESSEL TO CARRIER (EEZ/Port):	TRANSHIPMENT POSITION:	Latitude	dd	mm.mmm	N / S	Longitude	ddd	mm.mmm	E / W

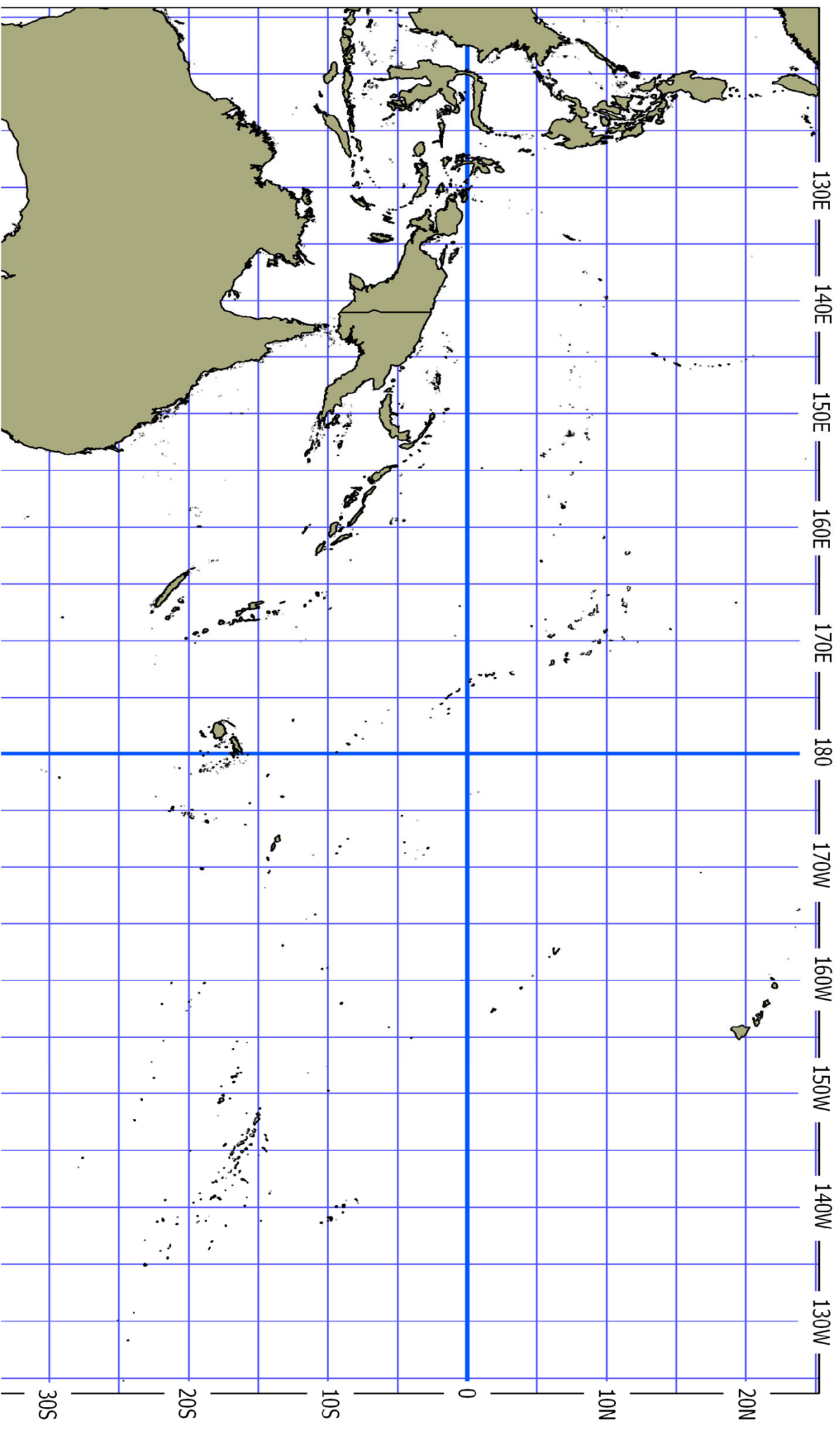
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# *SPC/FFA REGIONAL OBSERVER*

## **LONGLINE OBSERVER TRIP REPORT**

OBSERVER NAME: \_\_\_\_\_

VESSEL NAME: \_\_\_\_\_

Date of Departure: \_\_\_\_\_ Date of Arrival: \_\_\_\_\_

Port of departure: \_\_\_\_\_ Port of arrival: \_\_\_\_\_



SPC / FFA 2018

Observer Programme: \_\_\_\_\_

Date report received: ..... (for administrative use only)

## 1.0 BACKGROUND

What were the objectives of the trip? How was the vessel chosen?

Did you have enough time to prepare for the trip? Who was the placement officer (if none name the person who sent you for the trip)? Was a placement form filled in? Was there an introduction between the captain, the vessel owner and the observer? Was a safety check made at the start of the trip using the vessel safety check (See Sup 1 page 1). If yes describe how it was done. Were you given assistance (placement officer, Captain etc) or did you carry out the safety check yourself. State if there were problems with boarding and placement procedures.

## My trip report

## 2.0 CRUISE SUMMARY

(see appendix 1)

Describe the departure, note down the name of the port along with the date and time of the departure. Describe outward transit arrangements with other vessels, if any. Include dates and times of transfers. Describe how long it took to get to the first fishing grounds.

Summarise: the number of days at sea on each vessel (the transit vessel / catcher vessel);  
total number of fishing operations made by the vessel; and  
the number of fishing operations fully monitored by the observer.

Explain if an unusual number of fishing operations were not observed.

What was the average number of hooks set per fishing operation?

Describe any extraordinary events – major breakdowns, serious injuries, rescues of others, etc.

[illegible]

## 2.1 Area fished

Give a general description of the areas fished (e.g.: east of Outlook Atoll or south-east of Viti Levu) or a range in latitudes and longitudes (for example: between 19° and 12° N, and between 156° and 168° E).

[illegible]

## 2.2 End of Trip

Describe the return port, noting the date and time of arrival. Describe returning transit arrangements with other vessels, if any. Include dates and times of transfers. Describe how long it took to return to the port after fishing. Discuss any periods (and the reason why) that no fishing took place during the trip.

If trip was incomplete (observer dropped off before vessel returned for complete unloading) explain why. Were you offered assistance from observer programmes staff to disembark the vessel or another person?

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

### 3.0 DATA COLLECTED

The SPC/FFA Regional Longline Observer data collection forms were used during the trip. Remember to mark the number of pages used for each form type on the SUP-2 form (Workbook Reference Form).

If any of regional standard forms were not used explain the reasons why here.

[illegible]



### 3.1 Other Data Collected

Mention any other type of forms that you were asked to fill in and explain what type of data was collected on these forms.

## 4.0 CHAIN OF CUSTODY

Were you involved in any Chain of Custody (Marine Stewardship Council) or catch documentation scheme duties? Describe the programme you were involved in, your role and mention how successful the trip was and if the COC requirements were fulfilled.

5.0 VESSEL AND CREW DETAILS

5.1 General Vessel Information

If unable to get some vessel details, note the reason/s why here.

Also, if extra information about vessel details was discovered record those details here. Note any further vessel characteristics that have not been recorded onto the LL-1 form – possible examples include: vessel agent/company; gross registered tonnage (GRT) and gross tonnage (GT); length (overall), storage capacity of the vessel (metric tonnes)).

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5.2 Crew Nationality

If you were unable to fill in some of the crew nationality data fields note the reason why here. Also, if you found out some extra information about crew nationality record those details here. Did any crew leave or join the vessel during the trip? How experienced were the crew? How long have the crew worked on this vessel?

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### 5.2.1 Training of Pacific Island Nationals

Provide full names of all Pacific Islander crew members (if any), and their previous seamanship experiences, training backgrounds, and future goals.

Names:

Work Exp/ Future Goals.

1	
2	
3	
4	
5	
6	
7	
8	

Comments: -


### 5.3 Electronics

If unable to fill in some of the electronic data fields explain the reason why here.

Also record extra information about the electronics that may be useful (e.g.: it may be useful to describe the use of a piece of equipment that the Captain was using in a unique or special way.) Were the vessel electronics generally in good condition, or were they mostly old? Explain if there were any problems understanding the electronics data fields. Mention if there were any significant advances with any of the electronics or if there were any new types of electronics on board.


This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

## 5.4 Fishing Gear

If unable to fill in some of the fishing gear data fields, explain why here.

Also record extra information about the fishing gear that may be useful (e.g.: it may be useful to describe the use of a piece of equipment that the Captain was using in a unique or special way.) What sort of fishing gear was used on the vessel? Was it in a good mechanical order? Was it mostly new or old gear? Were there any serious breakdowns with the fishing gear during the trip? Make a note if you didn't understand any of the fishing gear data fields.

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**5.4.1 Mainline**

Explain here if you were unable to get all necessary information on the mainline. Also explain if there is any new and interesting information about the mainline. Note the total length of the mainline that was available for use in a set (if extra replacement line is kept in storage, describe this separately). How are these values obtained? What sort of material was used in the mainline and what was its diameter? Explain if there was anything about the fishing gear data fields that was difficult to understand. Not sure there is no data field for strength? May be an extra information observers should be collected?

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**5.4.2 Branchlines**

If unable to fill in any branchline data fields note the reason why here. Is there any new and interesting information about the branchlines? Describe a complete branchline, including average length and diameter and each type of material used to make up the branchline. Were wire traces included on all branchlines? How were the branchlines attached to the mainline? Draw a branchline, showing the lengths and the names of each of the pieces of the branchline. Did the average length of the branchlines change at any point during the trip? If any shark lines were used describe the make up and length of these lines: how they were attached to the mainline and the average number used during each set. Explain any aspects of branchline information data collection that were difficult to understand.

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### **5.4.3 Float lines**

Is there any interesting information about the float lines? Describe the average length and type of material used to make up the float line. Did the length of the float lines change during trip?

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### **5.4.4 Branchline weights**

Were there any branchline weights added to the branchline. If so, describe the type of branchline, weight (in grams) that was used (safe, lumo lead, weighted swivel or others) and how far they were placed from the hook.

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### **5.4.5 Fish hooks**

Write a short note describing the types and sizes of the hooks that were used by the vessel. Use the 'Longline Terminal Gear Identification Guide' to help with the descriptions. Note if any Japan, Circle, J-type or Teracima hooks were used? Were more than one type of hooks used? Do you think your estimates of the percentage of hook type used is accurate, or was it difficult to get this information? For any of the hooks used further describe if any were offset, had rings or swivels inserted at the top. If different hook types were mixed on the line, describe the pattern of hook setting if possible.

If any shark lines were used to describe the hooks used in these lines.

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### **5.5 Safety Equipment.**

If unable to fill in some of the safety equipment data fields explain the reason why here. Also use this area to make any useful comments about safety equipment on board the host vessel. Describe all safety equipment available onboard. Was it in good working order and serviced regularly? Explain whether the expiry date is 'L-last date of inspection' or 'D-Due date of inspection'? Was any safety briefing given to the observer while on board the vessel? Did the observer have good access to safety equipment when onboard?

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### **5.6 Refrigeration Method**

Explain here if it wasn't possible to circle "Y" or "N" for any of the refrigeration method data fields. Also use this area to describe any new and interesting details about the refrigeration methods onboard. Discuss how the catch was stored on the vessel. Was some catch stored differently from other catch? Did the storage method change at any point during the trip?

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### 5.7 Observations / other gear / unusual use of gear

Use this section to continue on any comments made at the bottom of the on the LL-1 form page 2 under the same heading. Write notes on anything special observed about this boat, its various equipment, electronics, or crew, when compared to other boats. Write more about equipment use, expanding on the usage codes and make comments on any equipment that is not working, not used or is used in an unusual way.

Describe any fishing gear that is different or new in comparison to other equipment you have seen on other longliners. Record make, model, special characteristics and usage of this new gear / electronics.



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## 6.0 FISHING STRATEGY

Describe the fishing strategy employed by the captain, for example, they fished where they last caught fish; information from other vessels, directed by the boat owner, using the track plotter, echo sounder, information etc.

## 6.1 Fishery Information Services

Report on the type or types of information that are being accessed by the vessel - e.g.: phytoplankton, sea-surface temperature or sea-height and the types of equipment used to collect this information.

Note the name of websites (www :) that are being accessed. Was the information printed out and provided to the vessel prior to departure to sea? Give reasons if any of the relevant data fields on LL-1 could not be answered and note if aspects of these information services were not understood by the observer.

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## 6.2 Oceanic Features

Did the presence of seamounts, trench current lines or other natural features influence fishing strategy?

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## 6.3 Setting and Hauling Information

Describe the general start of set time and its duration, also the general start of haul time and its duration. Describe if there were any major problems encountered during setting or hauling.

Note the average number of hooks used in a basket and if this number changed significantly during the trip. Explain why, if it was not possible to fill any of the hook / basket, line setting speed data fields on the LL-2/3.

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## 6.4 Target Fishing Depths (depth of the line/hooks)

Was the vessel targeting a deep or shallow depth with its line? Was a line shooter used onboard? If not, explain how the distance between branchlines was assessed? Was the line shooter speed clearly displayed in meters per

second? Was there a regular beep emitted for branchline attachment? Did the crew stick closely to this rhythm? Explain if unable to fill any of the setting interval or vessel speed data fields. Note if there is any aspect of the setting interval data fields that are difficult to understand.

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**6.5 Bait / baiting sequence**

If unable to fill any of the “bait used” data fields explain why here. What type of the bait was used during the trip? Mention if any of the bait used was live bait. Describe any baiting sequence that you might have observed on the vessel. Was the same baiting sequence used throughout the trip, or only some of the times? How was bait stored? Describe any interesting information about the bait or baiting sequence. Were the baits dyed blue, if yes explain in detail. Was there any light sticks used during the trip, explain in detail when and where they were used?

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**6.6 Mitigation Methods**

Describe in details any of the mitigation methods the vessel used. Mention if they used any of the following (side setting with a bird curtain, night setting with reduced deck lighting , number of tori lines, weighted branchlines, blue-dyed bait, deep setting line shooter, weighted lines, underwater setting cute, management of offal discharge.) Mention what crew were involved and what their role was. Pay attention to the exact location of any mitigation

equipment and its height relative to the handrail (above or below). Mention if the setting time was influenced by the mitigation method.

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**6.6.1 Fish Offal Management**

Describe fully how the vessel managed the fish offal or fish waste during the trip (including any gills and guts from processed fish, discards and bait fish). Were there any specific procedures or times for when fish offal was thrown overboard. If yes, describe what the procedures were. Mention if fish offal etc. was thrown over at any time during the setting or hauling periods. State whether this was done during all set / haul periods or just for some of them.

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**6.7 Hauling Fish**

Describe how fish were hauled onboard, noting if any special equipment or techniques were used to help (e.g.: tuna missile; electrocution before landing; winches to lift large species).

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## 6.8 Unusual Set Details

“Unusual set details” data fields are for recording information on any deliberate or intentional changes to the setting specifications during any of the sets. Use this section to describe fully any unusual set details observed during the trip and to expand on any comments made on the LL-2/3 form.

If the “unusual set details” was very different for an individual set note the start of set date and time before explaining the “unusual set details” each of these sets.

Note any aspect of “unusual set details” that are difficult to understand. (More space at back if required.)

## 6.9 Changes Between Sets

Describe any changes to the gear between sets (e.g.: extra radio buoys added for certain sets).

N.B.: this is different to unusual set details which describes changes during the set.

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## 7.0 ENVIRONMENTAL CONDITIONS

## 7.1 Weather

Describe the weather in general during the trip or for distinctive periods of the trip. Was it windy, rainy, cloudy, fine? What direction did the wind mostly come from and how strong; etc. Indicate if fishing was not possible at any time because of adverse conditions.

## 7.2 Sea Conditions.

Describe any usual sea conditions during the trip or during notable parts of the trip.

Include: general direction and size of the swell; sea surface temperature (if available); current direction and strength (if known); etc.

[illegible]

### 7.3 Moon Phase

Describe the moon phase during the trip. Was fishing during the full moon, new moon, or other?

Did the moon phase have any effect on the amount or the type of species caught by the vessel?

[illegible]

## 8.0 CATCH DETAILS

### 8.1 Target Catch Details

What was the target species for the vessel during the trip? Was there more than one target species (tuna, swordfish, sharks) for any, or all of the sets? Did the target species change from set to set or at any point during a set?

Describe catch of target species in detail (see appendix 2). State the common name followed by the scientific name and FAO code in brackets for each of the target species landed (e.g.: bigeye tuna (*Thunnus obesus*, BET)). Describe the total number taken and their general condition when landed.



### 8.1.1 Target catch processing and storage

Describe exactly how the target catch were processed and stored. Were they spiked? 'taniguchi-ed' (spinal cord destroyed) and/or bled; did the vessel appear to take care with processing; how and where were they stored/preserved? What type of refrigeration method did the vessel use eg? Ice, chilled sea water etc.

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### 8.1.2 Target Catch Discards

Were any target catch species discarded? What was the reason for discarding these fish? State the total number of target species discarded under each fate category.

### 8.1.3 Target catch damage

Were any of the target catch species damaged by whales, sharks, cookie cutter sharks, squid, the fishing gear or any other species? Refer to fish damages information in the SPC LL marine species ID. Give the number of target catch that were damaged for each category. Describe fully the type of damage you saw and give the reason why you listed/categorised each type of damage to either whales, sharks, squid, the vessel or any other category.

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## 8.2 By-catch Details *(see appendix 2)*

### 8.2.1 Other (non-target) tuna and billfish

Describe catch of other tuna and billfish. List common name followed by scientific name and FAO code in brackets for each species hooked (e.g. striped marlin (*Tetrapturus audax*, MLS).

Describe the numbers dead or alive on landing and the numbers that were shark or whale damaged ... or some other sort of damage. Did many or any escape before landing?

Describe how many were discarded or retained and how they were processed, depending on condition.

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### 8.2.2 *Sharks and rays*

For each shark or ray species hooked, list the common name followed in brackets by the scientific name and FAO code (e.g.: silky shark (*Carcharhinus falciform*, FAL)).

Describe the number of each landed, general condition when landed (i.e. mostly dead or alive), whether they were retained or discarded, if any escaped, if any were damaged and how, and how processed (especially if unusual processing techniques are used for some species). Especially note if sharks were being targeted with use of special shark hooks. Did the vessel use electronic stunner to kill the hooked catch? Report all details with regards to landed OCS or FAL sharks in section 8.4.

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### 8.2.3 *Other by-catch species*

For each ‘other by-catch species’ hooked, list the common name followed, in brackets, by the scientific name and FAO code (e.g.: mahimahi (*Coryphaena hippurus*, DOL)). For each species describe the number landed, the general condition (i.e. mostly dead or alive) and whether they were discarded or kept (retained) on board. Did many or any escape; was it especially noticeable that those landed were damaged in any way; if retained how were they processed?

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## 8.3 Unspecified Species/ Unidentified Species

If a correct FAO species code cannot easily and accurately be given to a species use a local name, a group species code, or the code “UNS” (unspecified) on the forms and fully describe the species here.

Try to draw the unknown or uncertain species in the observer diary, photograph it or bring back a sample (or a combination of these). Then, back on shore; work with the debriefer to try to find a correct code.

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## **8.4 Species of Special Interest** (see the ‘Code Page’ for a list of all Species of Special Interest)

### ***8.4.1 Species of special interest – landed and gear interactions***

Write a report on each species of special interest landed, or any that interacted with the primary gear (mainline, branchlines and hooks). Name the species followed by the scientific name and FAO code in brackets (e.g.: green turtle (*Chelonia mydas*, TUG). Was it difficult to identify? What was the condition of the species when landed? Explain exactly how and where on its body the creature was hooked or note if it was only tangled. How was it handled onboard? Was it let go? If so, in what condition? Were the handling guidelines for turtles followed correctly? Add some notes on species that interacted with the line, but were not landed on board.

Pay particular attention to any Oceanic White Tip Sharks (OCS) or Silky Sharks (FAL) and Manta (RMB) and Mobulid (Devil) Rays (RMV) (Note species identification tools for these rays to species level are being developed).

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### ***8.4.2 Species of special interest – vessel interactions.***

State the code/name/scientific name for any SSI that interacted with the vessel (e.g: did any SSI swim around the vessels during hauling). Was it possible to identify these species properly? If you have any doubts about the identification give a full description of the id features? Pay particular attention to reporting on any oceanic white-tip sharks (OCS) or whale sharks (RHN). More notes can be written under paragraph 13.0 Vessel Trip Monitoring.

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#### ***8.4.3 Species of special interest – interactions with toothed whales and dolphins***

Did the vessel have problems with toothed whales (for a list of toothed whales see tabbed section in the LL species guide) and dolphins during the trip? Did you see any whale damaged fish? If so during how many sets? Was there any mention of dolphins taking bait from the hooks?

Did the vessel steam to new fishing grounds to get away from whales on any occasion? How many times did that occur, if any? Did the Captain have any techniques for avoiding whales and dolphins?

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#### ***8.4.4 Species of special interest – sightings***

Did you sight any species of special interest from the vessel? Use the sighting code in the form to help describe the sighting and species. How hard was it to identify the species? Are you confident in your identification? What identification features did you notice? How far away were the species from the vessel? Was there more than one sighting. Could you tell if there were adults and calves together?

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## 9.0 TRANS-SHIPMENT / TRANSFER OF CATCH

Trans-shipment of catch at sea is illegal. However, some countries do allow specific longline vessels to transfer catch within their EEZ under specific national laws and with certain requirements. If any trans-shipment of catch happened during the trip mention it here. Mention the total amount (in numbers) for each target species. Mention the name of the receiving vessel. Was the Gen-1 form completely filled?

## 10.0 OTHER PROJECTS

## 10.1 Tags

Describe details if any tagged species were tagged and the condition of the tagged fish. What type of tag, conventional/dart, pop-up satellite (PSATs) or regular archival tag? Were any tagged fish found? Record tag number, species, GPS position/location, length and measured weight. Did you fill the tag recovery form and all of the data fields? If any data fields were not filled, explain and why.

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## 10.2 Biological /Stomach sampling

Briefly describe and comment on any biological sampling you carried out during your trip. Mention the name of the organisation that requested the sampling. Was it easy to carry out the sampling, note any problems you faced and any suggestions you have to improve the sampling? Mention how/ when and to who the samples and the data forms were handed to after your trip. Which biological form was used? Mention if there were any issues understanding the form or filling it completely?

Use a new number and heading for each project (e.g. 8.3.1 Something ??? sampling) (more space at end of this report if needed).

[illegible]



## 11.0 VESSEL TRIP MONITORING SUMMARY (GEN-3)

Describe any problems, suspected infringements, alleged illegal activities encountered in monitoring the vessel. Note this may vary depending on whether the vessel is multilateral licensed vessels under a regional agreement (such as the US Treaty or the Federated States of Micronesia Arrangement - FSMA) or whether it is bilaterally licensed in a member countries waters. If any infringement is suspected, collect as much evidence as possible, providing it can be collected/recorded without undue risk. Evidence could include photographs, original documents, copies of documents, etc. You are under no obligation to let the Captain know these observations have been made, however if you do wish to discuss the matter with the captain make sure that your safety will not be jeopardy. If the violation is considered to be deliberate, it is advisable to say nothing; if possible without putting yourself in danger record what you can in your journal or other notebook and then give a detailed report on what was seen when back in port. If it seems that a misunderstanding led to the alleged infringement and you feel talking to the captain about the alleged infringement will be helpful and safe, then discuss the matter and note the response and, as soon as possible, write up the conversation in the observer diary. (This is only recommended in the case of minor infringements)

Most infringements whether accidental or deliberate are still infringements and will be dealt with in the same manner. The observer on board is in the best position to judge the mood and personality of the captain and crew. Whatever occurs, write a full report and record as much information on the incident as possible, both here and in the observer journal. Include the full name of people involved, positions, times and dates. Also note the relevant journal page numbers here. As a quick indicator whether a vessel has committed or not committed an alleged infringement make sure the GEN-3 Form is filled out properly for the trip. If an infringement is noted on GEN-3 use this area to describe in detail the alleged infringement under the relevant titles, if more area is required record it at the end of this report. Ensure you indicate the particular reference areas on Form Gen-3 (RS-a, RS-b, WC- a...), see below:

### RS) OBSERVER RIGHTS / SOCIAL BEHAVIOUR

RS-a) Did the operator or any crew member assault, obstruct, resist, delay, refuse boarding to, intimidate or interfere with observer in the performance of their duties.

RS-b) Request that an event not be reported by the observer

RS-c) Mistreat other crew

RS-d) did the operator fail to provide the observer with food, accommodation, access to safety, gear, or medical facilities of reasonable standard equivalents to those normally available to an officer on board.

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## NR) NATIONAL REGULATIONS

NR-a) Fish in areas where the vessel is not permitted to fish

NR-b) Target species other than those they are licensed to target

NR-c) Use a fishing method other than the method the vessel was designed or licensed to use

NR-d) Not display or present a valid (and current) license document onboard

NR-e) Transfer or tranship fish from or to another vessel

NR-f) Was involved in bunkering activities

NR-g) Fail to show fishing gear when entering areas where vessels is not authorised to fish.



## LP-LOGSHEET RECORDING POSITION

LP-a) Inaccurately record vessel position on vessel logsheets for set, hauling and catch

LP-b) Fail to report vessel position to countries, where required when entering and leaving an EEZ

(crossing to or from an EEZ into or out of the High Seas)

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## LC – LOGSHEET RECORDING CATCH

LC-a) Inaccurately record retained 'Target Species' in the vessel logs (or weekly reports)

LC-b) Inaccurately record 'Target Species' discards

LC-c) Record species inaccurately

LC-d) Not record bycatch discards

LC-e) Inaccurately record retained bycatch species

LD-f) Inaccurately record discarded bycatch species

[illegible]

## WC – WCPFC CMMs

WC-a) Fail to comply with any Commission conservation and Management Measures (CMMs)

WC-b) High grade the catch

WC-c) Fish on a FAD during any FAD closure

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## SI – SPECIES OF SPECIAL INTEREST (SSIs)

SI-a) Land on deck any Species of Special Interest, (SSIs)

SI-b) Interact (not landed) with any SSIs (e.g. Marine mammals, turtles, or protected sharks)

## PN - POLLUTION

PN-a) Dispose of any metals, plastics, chemical, or old fishing gear

### PN-b) Discharge of any oil

PN-c) Lose any fishing gear

PN-d) Abandon any fishing gear

PN-e) Fail to report any abandoned gear



[illegible]

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## 12.0 VESSEL'S OWN DATA COLLECTION:

Use this section to comment on the type of data collected and recorded by the vessel. Does the vessel use the regional logsheet / logbook. If not what kind of logsheet are they using? Who is primarily responsible for recording the data and when do they do this (Captain onboard, agent on shore, other) and on what paper or book is the data written on.

[illegible]

A second paragraph should detail the type of data that is being collected and how it is being estimated (weighted green-weights, weighted processed weights, eye-estimates of green-weights, eye-estimates of processed weights, etc). Stress where this differs from the data that you collect.

## 13.0 GENERAL

General information picked up casually during the trip that may be used to understand development of the fishery or for improving observer life on board. Examples of possible headings are:

- 13.1 Clarify, by giving more information, about any advances you got or any expenses you are claiming.
- 13.2 Recommendations for observers (special problems or needs of observers on this or similar boats)
- 13.2 Crew information (perhaps covering salaries, general experience and background)
- 13.3 Medical and Hygiene issues (medical problems encountered by observer/crew)
- 13.4 Photos (for any photos taken during the trip list the frame number and subject of the photo)
- 13.5 Your headings (perhaps could include information on new markets or markets for new target species, new fishing strategies, new processing techniques, intelligence about other licensing arrangements your vessel and/or vessel fleet have, TDR information etc)
- 13.6 **Gifts** – Observers must report in their trip report any gifts they receive (big or small). Record gifts here. ok

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## 14.0 PROBLEMS ENCOUNTERED

Explain any problems not reported elsewhere in this report regarding: the vessel captain; crew; information and data gathering; etc. If you have possible solutions to the problems reported, provide suggestions on how these problems might be resolved.

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### 14.1 Form change recommendations

Recommend possible changes or areas on the forms that need better explanation, if any.  
Do any data fields seem not to make sense or could the instructions and these guidelines be improved? Note any problems and make suggestions on how to improve these areas. This will help in future reviews of the forms (normally every two years).

[illegible]

## 15.0 CONCLUSIONS / RECOMMENDATIONS

Describe your general impressions of the trip. Any items that need follow-up should be mentioned here. Discuss any subject matters that was not covered in the other sections of this written report.

## 16.0 ACKNOWLEDGMENTS

Provide acknowledgments to people, companies or organisations that helped organise or offered support during the trip (e.g.: fishing companies, outside observer coordinators, radio operators, vessel captain and crew, etc.)

[illegible]

**Extra Space If Required.**



Notes for observers on filling out tables.

**For Appendix 1.**

The rest of the information can be worked out from the “Set summary table”.

Add the numbers to get total on the second from bottom line and then divide the total by the number of sets to get the average on the bottom line.

Record hours to one decimal place, so for example: 1 hour and 20 minutes would be recorded as 1.3 hours; 2 hours 34 minutes recorded as 2.6 hours; and 10 hours 5 minutes would be recorded as 10.1 hours.

The remaining data can be recorded directly from the Form LL-2s.

Keeping the worksheets updated on a daily basis should make it easier.

Other columns are left blank for the observer to enter in any other fate code used.

The tables are designed to have the most important information to the left, but when filling in the tables the observers will find it easier to calculate for the columns towards the right first then calculate back to get numbers discarded, retained and total caught for each species.

Add up the number of each fish measured (most of them hopefully) to fill in the “No. of lengths” column.



At the end of the trip the worksheets will not be part of the report but should be handed in with all your other data nevertheless. However, the appendices will be part of your report and information from them used to help you write sections in the report .... particularly the “Trip Summary” and “Catch” sections.

## Appendix 1. – Trip and Set Summaries

### Trip summary table

		<u>Minimum</u>	<u>Maximum</u>	<u>Average</u>
No. of observer days: _____	No. of hooks per set: _____	_____	_____	_____
	Hooks per basket: _____	_____	_____	_____
No. of sets: _____	Distance between branchlines: _____	_____	_____	_____
	Length of floatlines: _____	_____	_____	_____
Average time	Vessel setting speed: _____	_____	_____	_____
for setting: _____	Line setting speed: _____	_____	_____	_____
for hauling: _____	Branchline set interval: _____	_____	_____	_____

**Set summary table** (time = hrs to one decimal place; distance in meters)

[illegible]

Optional Appendix 2. - Catch statistics and catch fate

Tuna						RGG	RWW	RHG	(fate code)	DUS	DSD	DWD	DGD	(fate code)	(fate code)
Species	Total caught	No. retained (kept)	No. of discards	% discards	No. of lengths	Retained gilled and gutted	Retained whole	Retained headed and gutted	(fate)	Discarded uneconom-ic species	Discarded shark damaged	Discarded whale damaged	Discarded gear damaged	(fate)	(fate)
YFN															
BET															
ALB															
SKJ															
<b>Total:</b>															

Billfish						RGG	RPT	RHG	(fate code)	DUS	DSD	DWD	DGD	(fate code)	(fate code)
Species	Total caught	No. retained (kept)	No. of discards	% discards	No. of lengths	Retained gilled and gutted	Retained partial (eg: fillet, loin, trunk)	Retained headed and gutted	(fate)	Discarded uneconom-ic species	Discarded shark damaged	Discarded whale damaged	Discarded gear damaged	(fate)	(fate)
SWO															
MLS															
BLZ															
BLM															
SFA															
SSP															
<b>Total:</b>															

Sharks						(fate code)			(fate code)					(fate code)	
Species	Total caught	RFR	DFR	DUS	DTS	(fate)	No. of lengths	Species	Total caught	RFR	DFR	DUS	DTS	(fate)	No. of lengths
BSH		Retained both fins and trunk	Discarded trunk but fins kept	Discarded uneconom-ic species	Discarded too small					Retained both fins and trunk	Discarded trunk but fins kept	Discarded uneconom-ic species	Discarded too small		
OCS															
FAL															
								<b>Total:</b>							

Optional Appendix 2 (continued) - Catch statistics and catch fate

(fate code)

(fate code)

(fate code)

(fate code)

(fate code)

(fate code)

## Other species

RGG

RWW

RHG

RCC

DUS

[illegible]

Optional Appendix 2 (continued) - Catch statistics and catch fate

(fate code)

(fate code)

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**OPTIONAL WORKSHEET** (part 2.) for Appendix 2 - tally board for trip catch statistics (keep up to date daily)

[illegible]





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[illegible]

OBSERVERS' GUIDE TO BEAUFORT SCALE, WIND AND SEA STATE (a rough guide for the open sea)					
Beaufort number	Descriptive term	Open sea criterion	Mean wind speed (kts)	Likely wave height (m)	Observers' sea state code
0	Calm	Sea like a mirror	less than 1		C (calm)
1	Light air	Ripples with the appearance of scales are formed but without foam crests	1-3	0.1	
2	Light breeze	Small wavelets, still short but more pronounced; have a glassy appearance and do not break	4-6	0.2	S (slight)
3	Gentle breeze	Large wavelets; crests begin to break; foam of glassy appearance; perhaps scattered white horses	7-10	0.6	
4	Moderate breeze	Small waves, becoming longer; fairly frequent white horses	11-16	1	M (moderate)
5	Fresh breeze	Moderate waves, taking a more pronounced long form; many white horses are formed (chance of some spray)	17-21	2	
6	Strong breeze	Large waves begin to form; the white foam crests are more extensive everywhere (probably some spray)	22-27	3	R (rough)
7	Near gale	Sea heaps up and white foam from breaking waves begins to be blown in streaks along the direction of the wind	28-33	4	
8	Gale	Moderately high waves of greater length; edges of crests begin to break into spindrift; the foam is blown in well marked streaks along the direction of the wind	34-40	5.5	V (very rough)
9	Strong gale	High seas; crests begin to topple and tumble; spray	41-47	7	
10	Storm	Very high waves; surface of sea white; visibility affected	48-55	9	Time to be concerned ! Our condolences !
11	Violent storm	Exceptionally high waves (hiding small to medium ships)	56-63	11.5	
12	Hurricane	Air filled with foam and driving spray; visibility minimal	more than 64	14	