

## SPC/FFA REGIONAL PURSE SEINE 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  
"Revised  
Mar. 2014"

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

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

*Have a great trip!*



**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 MAR. 2014

**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		UVI and /or IRCS	
<b>VESSEL SIZE:</b> circle to indicate	< 16 metres	16-25 meters	26-39 meters	40-65 meters	> 65 meters

**OBSERVER PLACEMENT CHECKLIST**

A Fisheries Authority Representative 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 completed.

<i>Initial :</i>	<i>Placement Officer to initial when they have:</i>
<b>1</b>	Set up the placement meeting
<b>2</b>	Assisted the observer with their personal requirements before boarding
<b>3</b>	Checked that the observer has been assigned appropriate accommodation and an area to store their equipment
<b>4</b>	Carried out a vessel safety check in the presence of the observer and Captain
<b>5</b>	Ensured that the Captain receives and understands the attached description (check-list) of standard observer duties and vessel obligations
<b>6</b>	Ensured that both parties are informed of their rights and responsibilities under CMM 2007-01 (Show and, if necessary, supply copy)
<b>7</b>	Carried out a vessel safety check in the presence of the observer and Captain
<b>8</b>	Reminded the observer of their obligation to work with the crew as best they are able.
<b>9</b>	Reminded the Captain and Observer of importance of cooperation
<b>10</b>	Supplied or informed the Captain of the "Vessel on Observer Report" form
<b>11</b>	Informed the Captian and Observer than an observer-debriefing meeting will take place immediately upon return to port at completion of trip

<i>Initial :</i>	<i>Observer to initial when they have:</i>
<b>12</b>	Clearly described any special sampling requirements to the Vessel Captain
<b>13</b>	Been present at the Vessel Safety Check and have agreed to board the vessel
<b>14</b>	Informed the Captain of any special medical issues; and supplied contacts details for their next of kin

<i>Initial :</i>	<i>Vessel Captain to initial when they have:</i>
<b>15</b>	Read and understood the "Obligations of the Vessel Operators to Observers"
<b>16</b>	Shown the observer all current and valid license certificates
<b>17</b>	Shown the observer the location of their life jacket
<b>18</b>	Informed the observer of all safety regulations, procedures and muster stations
<b>19</b>	Shown the observer which electronic bridge equipment is used and which is not used
<b>20</b>	Shown the observer how to obtain position and UTC time from the onboard GPS and plotter to which they have access to during the trip
<b>21</b>	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

**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 INITIAL

**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) \_\_\_\_\_
- 2 May take, measure and retain samples or specimens of any fish \_\_\_\_\_
- 3 May observe and record details of any incidental take, including the recording of set position information \_\_\_\_\_
- 4 May record position, activity and identification details of other vessels sighted \_\_\_\_\_
- 5 May use communications and other equipment of the vessel but should get permission from the Captain before using it \_\_\_\_\_
- 6 Should not be involved in the fishing operations but may assist in normal vessel housekeeping duties \_\_\_\_\_
- 7 Should not stand watch on the vessel \_\_\_\_\_
- 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 \_\_\_\_\_

**OBLIGATIONS OF THE VESSEL OPERATORS TO THE OBSERVER**

- 9 Ensure vessel personnel do not assault, obstruct, resist, refuse boarding to, delay, intimidate or interfere with an observer performing observer duties \_\_\_\_\_
- 10 Provide access to the bridge, communications and navigation equipment \_\_\_\_\_
- 11 Instruct observer on use of vessel communications equipment to receive and transmit message with the shore, Fishery Authority and other vessels \_\_\_\_\_
- 12 Assist observer as requested, in recording accurate vessel position using vessel navigation and positioning equipment \_\_\_\_\_
- 13 Provide access to areas where fish are held, processed, weighed or stored \_\_\_\_\_
- 14 Allow observer access to document and records, including all logbook for purpose of inspection and copying \_\_\_\_\_
- 15 Allow observer to remove samples \_\_\_\_\_
- 16 Ensure vessel personnel do not assault, obstruct, resist, refuse boarding to, delay, intimidate or interfere with an observer performing observer duties \_\_\_\_\_
- 17 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 \_\_\_\_\_
- 18 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 \_\_\_\_\_
- 19 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 port. \_\_\_\_\_
- 20 Provide space for the storage of observer equipment, supplies and samples \_\_\_\_\_
- 21 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 \_\_\_\_\_

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

**FORM SUP-1** (pg2)

REV MAR. 2014

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

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

**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	SIGNATURE	DATE
FISHING AUTHORITY REPRESENTATIVE	POSITION	INTERPRETER (if any)	POSITION

## 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 - including the 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.

# CHANGES TO THE PURSE SEINE OBSERVER FORMS AGREED AT THE 9<sup>TH</sup> TUNA FISHERY DATA COLLECTION COMMITTEE (DCC) MARCH 2014<sup>1</sup>

1. Welcome to the revised (March 2014) edition of the Purse-Seine Observer Workbook. Please note the new features of this workbook.
2. Some forms that were not coded previously have been revised and coded as SUP. These include the Placement Form (SUP-1), the Workbook Reference Page (SUP-2), The Trip Reconciliation Form (SUP-3), and the Advances and Claims Form (SUP-4)
3. The Placement Form has been added to the start of the workbook and is on coloured pages. We encourage all observers to request that their boarding is done through an official placement meeting and that the WCPFC vessel safety check, which is part of the placement form is carried out
4. The new Workbook Reference Page allows the observer to record all details of the trip on one form, including any secondary trip numbers or special project codes. A form management area has been taken from the trip report and included on this form. This form must be filled in at the end of the trip. However, the observer does not have to fill in the two shaded areas below for debriefing and for workbook transfer.
5. A 'codes' page is included. It is on a coloured page and is before the GEN forms.
6. The Observer Coordinators contact list has been removed, as it was difficult to keep updated.
7. The trip report is a separate booklet. Remember to fill it in and submit it.
8. Observer journal are now printed as a regional standard blank A4 booklet. Ask your Coordinator for one.

## PS-1 (pg-1) GENERAL INFORMATION

### Modified data fields

**Observer Programme:** Whenever possible, the observer forms use existing data standards like the FAO standard for species codes. Standards issued by the International Standards Organisation (ISO) are also used. Observers deployed by national observer programmes should use the ISO standard for country codes along with the acronym 'OB' to denote observer programme. (Example: SB + OB is SBOB for the Solomon Island Observer Programme).

**Date format:** Wherever possible the DCC forms use existing data standards like the FAO standard for species codes. Standards from the International Standards Organisation (ISO) are also used. The ISO standard for date and time is standard 8601 and it requires that when recording the date - the year is recorded first, followed by the month, the day, and then the time (example the 23<sup>rd</sup> of September 2015 at quarter past nine in the morning is written as 2015/9/23 - 09:15).

**Advances in Technology:** Under the electronics section the data fields previously labelled 'new' has been re-named as 'advances in technology' to better reflect the information that is being requested. Observers are asked to record any brand new types of electronics that they see in these data fields. They are also asked to record any electronics which have significant technological advances. This data field will often be blank; as brand new types of equipment or significant electronic advances don't happen that often. This data field must not be used to record 'other' types of equipment that are not pre-listed on the form (like old radios for instance). Use the comments field to describe the advances in technology and continue the description into the journal.

**VMS system:** The data fields for the VMS system were modified with the word 'system' moved outside the data field box and the numbering moved inside the box. There is no change to the information observers need to record.

**AIS – Automatic Identification System:** AIS units emit a unique vessel number and are used to track the vessel from land, mostly by the vessel's owner, but also by compliance personnel. These units are attached to the VHF antenna and will always be marked with the letters AIS. Observers are asked to record the make and model of these units, along with recording a usage code.

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

Some examples of AIS units



**MTU:** The MTU (mobile transceiver unit) has been removed from the usage data column. Observers are now asked to record the usage for all VMS systems.

### New data fields

**UVI:** The Unique Vessel Identifier is being introduced by the WCPFC as the preferred vessel identification number. All vessels over 100 GRT fishing in the WCPFC zone (so most purse-seiners) will be required to have this number by 1<sup>st</sup> Jan 2016. It is likely that observers will see this vessel identification number appearing on vessel paperwork (licensing certificates etc.) before then. The UVI is issued by the International Maritime Organisation (IMO) or through the Lloyd's Register (LR).

**Live Fish Brailing:** Observers are asked to circle Y for yes if they see a bailer onboard that is only used to brail live fish on-board. Often seen on Japanese vessels, normally this brail will be used at the start of the brailing and the fish will be processed and stored separately from the rest of the catch. If no live fish brailing occurs then just circle N for no.

### Removed data fields

**How many?** Previously observers were asked to record how many GPS buoys and how many echo sounding buoys the vessel had. This is no longer required. The DCC considered that it was difficult for observers to get this information as some of these buoys were off the catcher vessel during the observer's trip. So both of these 'how many' data fields have been removed.

**Seals intact Y / N / N/A:** VMS systems have evolved over time. The current models of VMS don't always have a seal, so the DCC decided it was appropriate to remove this data field.

**WIN #:** The WIN number or WCPFC Identification Number does not always appear on vessel's paperwork. In the future the WCPFC will put more emphasis on using the UVI as the main vessel identification number. For this reason observers are no longer required to record the WIN number.

## PS-1 (pg-2) GENERAL INFORMATION

### Modified data fields

**Crew:** The crew list has been modified by adding more officer positions into the crew list (e.g. translator, helicopter mechanic etc). That said, the list of officers should not be seen as a complete list. If there are other officer positions on-board these can be recorded into the blank data field or down below and other positions can be mentioned in the observer's journal if required.

**Total number of Crew (include Captain and officers):** Very small change. This data field has been re-formatted so the actual box where the total number is recorded is now on the right-hand-side instead of the left-hand-side.

**Comments or Drawing of Well Pattern:** With the removal of the well contents data fields (see below) the large comment box has been moved to the front of the form. Previously it was on the back of the form.

**Waste Disposal System:** The 2009 version of these forms asked observer to record if there was 'waste disposal equipment' on-board. This has been modified to ask whether there was a 'waste disposal system'. A waste disposal system includes any equipment and/or procedures to manage any waste on board, including fish waste.

### New data fields:

There are no new data fields.



### Removed data fields

**Well Contents:** All of the well contents data fields were removed. The data was not found to be helpful when analysed; as it was difficult to capture when the well was available for tuna storage. The DCC advised that it was better if this type of information was captured by the PS-5 form.

### PS-2 DAILY LOG

#### Modified form

**Numbered:** Each line on the form was numbered on the left-hand-side to help with data entry. This should not affect observers in anyway.

#### Modified data fields

**Date format:** Wherever possible the DCC forms use existing data standards like the FAO standard for species codes. Standards from the International Standards Organisation (ISO) are also used. The ISO standard for date and time is standard 8601 and it requires that when recording the date - the year is recorded first, followed by the month, the day, and then the time (example the 23<sup>rd</sup> of September 2015 at quarter past nine in the morning is written as 2015/9/23 - 09:15).

#### **Blank column removed:**

The blank column (just before the comments column) has been removed to allow more space for observer to record comments. Any special projects that require information to be recorded on the PS-2 form can be recorded in the comments column.

#### New data fields:

There are no new data fields.

#### Removed data fields:

No data fields were removed.

### PS-3 SET DETAILS

#### Modified data fields

**Date format:** Wherever possible the DCC forms use existing data standards like the FAO standard for species codes. Standards from the International Standards Organisation (ISO) are also used. The ISO standard for date and time is standard 8601 and it requires that when recording the date - the year is recorded first, followed by the month, the day, and then the time (example the 23<sup>rd</sup> of September 2015 at quarter past nine in the morning is written as 2015/9/23 - 09:15).

**End of Brailing / Sack Onboard:** The data field "End Brailing" was modified to read "End of Brailing or Sack Onboard. This helps observers to record an end time when no brailing happens. If no brailing occurs observers are asked to record the time the sack came onboard.

#### New data fields:

There are no new data fields.

#### Removed data fields:

No data fields were removed.

**SHARKS - CLARIFICATION:** The Oceanic Whitetip (OCS) and Silky Shark (FAL) are considered species of special interest (SSI) since the publication of CMM 2011-04 for the Oceanic Whitetip and CMM 2013-08 for Silky Shark. If any sharks are landed on deck their fate code should reflect that they are SSIs and observers are requested to use one of the three fate codes for species of special interest. DPA – Discarded alive: species of special interest, DPD – Discarded dead: species of special interest, DPU – Discarded condition unknown: species of special interest. A GEN-2 form must also be recorded.

### PS-4 LENGTH MEASUREMENT

#### Modified data fields

**Date format:** Wherever possible the DCC forms use existing data standards like the FAO standard for species codes. Standards from the International Standards Organisation (ISO) are also used. The ISO standard for date and time is standard 8601 and it requires that when recording the date - the year is recorded first, followed by the month, the day, and then the time (example the 23<sup>rd</sup> of September 2015 at quarter past nine in the morning is written as 2015/9/23 - 09:15).

**Sample Type: Other: Sample Codes:** Some 'other' sampling codes have been removed as they were found to be inappropriate or difficult for the normal observer to achieve. The sample codes that have been removed are:

- BA – bycatch all available species
- BY – bigeye/yellowfin composition
- LY – only large yellowfin.

Observers can continue to carry out the other sample types {DA, DT and BS}. For more information see the back of the form.

*New data fields:*

There are no new data fields.

*Removed data fields:*

No data fields were removed.

PS-5 WELL TRANSFER RECONCILIATION FORM

*Modified form*

**Numbered:** Each line on the form was numbered on the left-hand-side to help with data entry. This should not affect observers in anyway.

*Modified data fields*

**Date format:** Wherever possible the DCC forms use existing data standards like the FAO standard for species codes. Standards from the International Standards Organisation (ISO) are also used. The ISO standard for date and time is standard 8601 and it requires that when recording the date - the year is recorded first, followed by the month, the day, and then the time (example the 23<sup>rd</sup> of September 2015 at quarter past nine in the morning is written as 2015/9/23 - 09:15).

**New well activity code:** A new well activity code has been introduced to capture tuna that has been kept on board only because of the catch retention regulations (Small fish, un-marketable fish, undesirable species)

**Recorded on logsheet? Y / N:** Quite simply the letter y and n were added to this column to remind observer that all that needs to be recorded into this column is y for yes, if the well transfer on the logsheet or n for no, if the well transfer was not recorded on the logsheet.

*New data fields:*

**CR<Well No.>** Record the well numbers of any wells that were used to store fish that would have been discarded if there was no WCPFC catch retention rules (small fish, un-marketable fish, undesirable species – see CMM for specific details).

*Removed data fields:*

No data fields were removed.

GEN-1 VESSEL AND AIRCRAFT SIGHTINGS / FISH, BUNKERING and OTHER TRANSFERS  
LOGS

*Modified form*

**Numbered:** Each line on the form was numbered on the left-hand-side to help with data entry. This should not affect observers in anyway.

**Report Form Example:** In the form instructions the 'telex report format' as change to read 'report form example'.

### Modified data fields

**Date format:** Wherever possible the DCC forms use existing data standards like the FAO standard for species codes. Standards from the International Standards Organisation (ISO) are also used. The ISO standard for date and time is standard 8601 and it requires that when recording the date - the year is recorded first, followed by the month, the day, and then the time (example the 23<sup>rd</sup> of September 2015 at quarter past nine in the morning is written as 2015/9/23 - 09:15).

**Fish Transferred: Fish type / units (amount).** Trans-shipment at-sea is illegal, however longline trans-shipments within the EEZ are permitted by a number of countries. The 'fish transferred' data fields were originally designed to capture transfers of fish from fully loaded purse-seiners and were not suitable for fish transferred from longliners. These data fields have now been modified to record transfers from longliners. The data field header for 'mixed' fish (useful for recording purse-seine catches) has been removed and has been left blank. The blank header can be used to record ALB for longline transfers, or the word 'mixed' can be filled in for any purse-seine or pole-and-line transfers. Additionally, the unit for quantity needs to be circled. Please circle either the weight unit (WGT) normally for purse-seiners or the number unit (NO.) normally for longliners.

### New data fields:

There are no new data fields.

### Removed data fields:

No data fields were removed.

## Supplementary GEN-1 VESSEL AND AIRCRAFT SIGHTINGS / FISH, BUNKERING and OTHER TRANSFERS LOGS

Same as above: Please refer to the GEN-1 changes that are outlined above.

## GEN-2 SPECIES OF SPECIAL INTEREST

### Modified data fields

**Date format:** Wherever possible the DCC forms use existing data standards like the FAO standard for species codes. Standards from the International Standards Organisation (ISO) are also used. The ISO standard for date and time is standard 8601 and it requires that when recording the date - the year is recorded first, followed by the month, the day, and then the time (example the 23<sup>rd</sup> of September 2015 at quarter past nine in the morning is written as 2015/9/23 - 09:15).

**Species Code and Species Description:** These data fields have been moved to the top of the form. Watch out for them!

### **Describe Interaction/ Treatment / Release:**

#### **SPECIES LANDED ON DECK:**

The data field that was previously titled "Describe on-board handling" and was placed under the "Species landed on Deck" section has been edited and the type of information required has been extended. The data field now reads 'describe interaction/treatment/release'. If extra space is required the information can be continued into the observer journal.

### **Describe Interaction and if relevant any treatment and release:**

#### **INTERACTIONS WITH VESSEL OR VESSEL GEAR:**

The data field that was previously titled "Describe the interaction" - under the section 'interactions with vessel or vessel gear' section has been edited and the type of information required has been extended. The data field now asks observers to 'describe interaction and if relevant any treatment and release'. If extra space is required the information can be continued into the observer journal.

### New data fields:

**Time of Observer First Sighting:** Observers are asked to note the time when they first sighted the species of special interest. This might have been well before any set was made or not until it was landed on deck etc. Record

the time you first sighted the SSI. It doesn't matter if a crew member mentions they saw it earlier, the time to record is the time the SSI was first sighted by the observer.

**Did the observer sight the SSI before the set?:** Observers are asked to note if they sighted the SSI before the set. This gives some indication if the vessel was also able to see the SSI before they made a set. Simply circle one of the options to note if you did see the SSI before the set: (Yes), (No) or (No set) if there was no set.

Removed data fields:

No data fields were removed.

**Species Codes removed:** While these are not actually data fields observers are informed that the species codes at the end of the forms have been removed to make more space for recording information. These codes can now be found in the workbook on the 'Codes' page, insert before the GEN forms.

Supplementary GEN-2 SPECIES OF SPECIAL INTEREST

Modified data fields

**Date format:** Wherever possible the DCC forms use existing data standards like the FAO standard for species codes. Standards from the International Standards Organisation (ISO) are also used. The ISO standard for date and time is standard 8601 and it requires that when recording the date - the year is recorded first, followed by the month, the day, and then the time (example the 23<sup>rd</sup> of September 2015 at quarter past nine in the morning is written as 2015/9/23 - 09:15).

New data fields:

There are no new data fields.

Removed data fields:

No data fields were removed.

GEN-3 VESSEL TRIP REPORT

Modified form

**Name change:** The title of the form was changed from 'Vessel Trip Monitoring Summary' to 'Vessel Trip Report'

**Two pages:** A second page was added to the form to help extend the information that is immediately available to persons responsible for monitoring vessel infringements and viewing the GEN-3 form. Where previously there was a half-page for comments on the back of the GEN-3 form, this has been removed and there is now a full extra form page.

Modified data fields

**Date format:** Wherever possible the DCC forms use existing data standards like the FAO standard for species codes. Standards from the International Standards Organisation (ISO) are also used. The ISO standard for date and time is standard 8601 and it requires that when recording the date - the year is recorded first, followed by the month, the day, and then the time (example the 23<sup>rd</sup> of September 2015 at quarter past nine in the morning is written as 2015/9/23 - 09:15).

**SSIs:** The section for SSIs (species of special interest) includes a bracketed sentence to update what marine species are considered to be species of special interest. Since the introduction of CMM 2011-04 and CMM 2013-08 certain shark species (oceanic white tip and the silky shark) are considered to be SSIs, along with whale sharks. The revised sentence in brackets now reads (e.g. Marine mammals, turtles, seabirds or protected sharks).

New data fields:

**UVI:** The Unique Vessel Identifier is being introduced by the WCPFC as the preferred vessel identification number. All vessels over 100 GRT fishing in the WCPFC zone (so most purse-seiners and some larger longliners) will be required to have this number by 1<sup>st</sup> Jan 2016. It is likely that observers will see this vessel identification number appearing on vessel paperwork (licensing certificates etc.) before then. The UVI is issued by the International Maritime Organisation (IMO) or through the Lloyd's Register (LR).

Removed data fields:

**WIN #:** The WIN number or WCPFC Identification Number does not always appear on vessel's paperwork. In the future the WCPFC will put more emphasis on using the UVI as the main vessel identification number. For this reason observers are no longer required to record the WIN number.

## GEN-4 CONVERSION FACTORS

### Modified data fields

**Date format:** Wherever possible the DCC forms use existing data standards like the FAO standard for species codes. Standards from the International Standards Organisation (ISO) are also used. The ISO standard for date and time is standard 8601 and it requires that when recording the date - the year is recorded first, followed by the month, the day, and then the time (example the 23<sup>rd</sup> of September 2015 at quarter past nine in the morning is written as 2015/9/23 - 09:15).

### New data fields:

There are no new data fields.

### Removed data fields:

No data fields were removed.

## GEN-5 FAD/PAYAO and FLOATING OBJECTS INFORMATION RECORD

### Modified data fields

**Date format:** Wherever possible the DCC forms use existing data standards like the FAO standard for species codes. Standards from the International Standards Organisation (ISO) are also used. The ISO standard for date and time is standard 8601 and it requires that when recording the date the year is recorded first, followed by the month, the day, and then the time (example the 23<sup>rd</sup> of September 2015 at quarter past nine in the morning is written as 2015/10/23 - 09:15).

### New data fields:

**FAD lifted:** Observers are asked to indicate if the FAD was lifted from the water by simply circling Yes if it was lifted or by circling No if it was not lifted. By recording if the FAD was lifted scientists have a better idea if an observer could properly see if an SSI was trapped in the FAD or not.

**SSI seen:** Observers are asked to indicate if they saw an SSI at any FAD that was investigated. Simply circle Y for yes to say that an SSI was seen and N for No. Circle U for unknown if the observer didn't get a proper look at the fad.

**SSI trapped:** Observers are asked to indicate if they saw an SSI trapped in any part of the FAD. Circle Y for yes if an SSI was seen trapped in the FAD. Only circle N for no if the FAD was lifted from the water and all parts clearly seen by the observers. Circle U for unknown if the FAD was lifted but the observer did not get a good look at all parts of the FAD.

### Removed data fields:

**Codes Removed:** The codes for the FAD form were removed to make more space on the form. They are available on the Code Pages within the workbook.

## GEN-6 POLLUTION REPORT

### Modified data fields

**Date format:** Wherever possible the DCC forms use existing data standards like the FAO standard for species codes. Standards from the International Standards Organisation (ISO) are also used. The ISO standard for date and time is standard 8601 and it requires that when recording the date - the year is recorded first, followed by the month, the day, and then the time (example the 23<sup>rd</sup> of September 2015 at quarter past nine in the morning is written as 2015/9/23 - 09:15).

### New data fields:

There are no new data fields.

### Removed data fields:

No data fields were removed.

## SUPPLEMENTARY FORMS

**New 2014:** DCC found that a number of forms were not getting the attention they deserved during form revisions. For that reason some forms were re-labelled as supplementary forms and coded SUP. A new form – the Workbook Reference Page was also developed.

### SUP-1 PLACEMENT FORM

This is not a new form, but it has now been added to the start of the workbook on coloured pages. Normally it will be filled in by the placement officer (the observer, Vessel Captain and others will be asked to sign the form. Once filled the placement form should be removed from the workbook and correctly processed in the observer programme office.

### SUP-2 WORKBOOK REFERENCE PAGE

This is a new form. However, the majority of the data fields have been taken from different areas of the 2009 forms, and trip report. They have been compiled onto a new form here. Note at the end of this form there is a grey area for debriefing details and workbook transfer. The observer does not need to fill these in.

#### New data fields

**Cross- endorsed trips: Programme Name and Trip Id Number:** Fill in a second trip identification number if you trip crosses into a new jurisdiction and the trip is recognised by a new observer programme / regional fishery management organisation (i.e. IATTC).

**Special Projects:** Name and Reference number: If you are involved in any special sampling project record the name of the project here any reference number you may be issued with.

### SUP-3 TRIP RECONCILIATION FORM

#### Modified data fields

There are no modified data fields.

#### New data fields

There are no new data fields.

#### Removed data fields:

The observer expense claims for reimbursement data fields, which were on the back of the Trip Reconciliation form have been removed and placed on the Advance and Claims form.

### SUP-4 ADVANCES and CLAIMS FORM\*

Note: The fact that there is an advance and claim's form doesn't mean that observers are entitled to advances. Some observer programmes do not authorise advances for their observers, but make different arrangements for their travelling observers. Make sure you understand your deployment authorities' rules and advice on advances

#### Modified form

This is a new form; although a lot of the data fields have come from the back of the 2009 Trip Reconciliation Form.

#### New data fields

**Observer Trip ID No:** Fill in your normal observer trip identification number here. This will be supplied by the authority placing you on the trip.

**Name of observer programme or Fishing Company making advance.** As described by the data field record the name of the observer programme or the fishing company that gave you the advance. Do not use any letters as part of the name (e.g. write Kaosaong Fishing Company Limited and not KFCL)

**Name of Person providing advance:** Write out the full name of the person that provided you with the advance. Use extra lines if required.

**Signature (of person making advance):** Ask the person giving the advance to sign every time they make and advance.

**State TYPE OF ADVANCE (i.e. cash, other):** Note if the advance was cash, cheque, bank transfer. If it was another type of payment please specify and make more comments in your journal.

**Currency:** Record the currency of the advance i.e. US dollars, Australian dollars.

**Amount:** Record the amount of the advance to two decimal places.

#### Removed data fields:

No data fields were removed.

**SPC/FFA REGIONAL OBSERVER  
WORKBOOK REFERENCE PAGE**

**FORM SUP-2**  
for Purse Seine

REV MAR. 2014

**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)	Placement Form (pg1)	
SUP-1 (page 2)	Placement Form (pg2)	
SUP-2	Workbook Reference Form	
PS-1 (page 1)	Purse-Seine General Information (pg1)	
PS-1 (page2)	Purse-Seine General Information (pg2)	
PS-2	Purse-Seine Daily Information	
PS-3	Purse-Seine Set Details	
PS-4	Purse-Seine Length Measurement	
PS-5	Well Transfer Reconciliation Form	
GEN-1	Vessel and Aircraft Sightings/ Fish Bunkering & Other Transfers	
GEN-1 supp	Vessel and Aircraft Sightings/ Fish Bunkering & Other Transfers	
GEN-2	Species of Special Interest	
GEN-2 supp	Species of Special Interest - multiple landings	
GEN-3 (page 1 + page 2)	Vessel Trip Report (pg1+pg2) - <b>you must fill in this form!</b>	
GEN-4	Conservation Factors	
GEN-5	FAD/PAYAO and Floating Object Information Record	
GEN-6	Pollution Report	
SUP-3	Trip Reconciliation Form	
SUP-4	Advances and Claims Forms	
TAG	Tag Recovery Forms (single and mutiple 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**

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	





OBSERVER PROGRAMME:

**SPC/FFA REGIONAL PURSE SEINE  
GENERAL INFORMATION**

**FORM PS-1 (pg 1)**

REV. MAR. 2014

TRIP DETAILS											
OBSERVER	NAME			TRIP START LOCATION			TRIP START (SHIP'S DATE AND TIME)				
							YY	MM	DD	h h m m	
	NATIONALITY			TRIP ID NUMBER			TRIP END (SHIP'S DATE AND TIME)				
							YY	MM	DD	h h m m	
VESSEL NAME			FISHING PERMIT / LICENSE No.s			VESSEL DEPARTURE PORT			VESSEL DEPARTURE DATE		
									YY	MM	DD

VESSEL CHARACTERISTICS											
VESSEL OWNER			COUNTRY REG. No.		IRCS	UVI	FLAG	LENGTH	M F	GROSS TONNAGE	mT
No. of SPEED BOATS		No. of OTHER ONBOARD AUXILIARY BOATS		Do OTHER TENDER BOATS WORK with CATCHER? Y / N		MAKE / POWER		VESSEL CRUISING SPEED:		hp	km NM
<b>HELICOPTER CHARACTERISTICS</b>			MAKE	MODEL	REGISTRATION NUMBER	EFFECTIVE RANGE	COLOUR	No. of VESSELS that the HELICOPTER SERVICES: (including this vessel)			

FISHING GEAR											
POWER BLOCK:		MAKE	MODEL	PURSE WINCH:		MAKE	MODEL	BRAIL CAPACITY (of first brail) BRAIL 1			mT
NET - MAX. DEPTH:	M Y F	NET - MAX. LENGTH:	Metres Yards Fathoms	NET - No. of STRIPS	NET - MESH SIZE (of main body)	CM	IN	BRAIL CAPACITY (of second brail) BRAIL 2			mT
BRAILING TYPE DESCRIPTION:										LIVE FISH BRAILING: Y / N	

ELECTRONICS											
				USAGE						USAGE	
				GPS	Y / N					DEPTH SOUNDER	Y / N
				TRACK PLOTTER	Y / N					SST GAUGE	Y / N
				USAGE		MAKE	MODEL	COMMENTS			
ADVANCE in TECH	EQUIPMENT TYPE			Y / N							
	EQUIPMENT TYPE			Y / N							
				AIS	Y / N						
				BIRD RADAR	Y / N						
				SONAR	Y / N						
				GPS BUOYS	Y / N						
				ECHO SOUNDING BUOY	Y / N						
				NET DEPTH INSTRUMENTATION	Y / N						
				DOPPLER CURRENT METER	Y / N						
VMS SYSTEMS	1			Y / N							
	2			Y / N							
COMMUNICATION SERVICES		PHONES	SATELLITE:	Y / N	Phone No.		MOBILE:	Y / N	Phone No.		
		OTHER	FACSIMILE:	Y / N	Fax No.		EMAIL:	Y / N	Email:		
INFORMATION SERVICES		WEATHER	WEATHER FAX:	Y / N	SATELLITE MONITOR		Y / N				
		OTHER	Y / N	url :	Phytoplankton	Y / N	SST	Y / N	Sea Height	Y / N	

OBSERVATIONS / COMMENTS / OTHER GEAR / UNUSUAL USE OF GEAR							USAGE CODES (for "USAGE" columns)				
(write brief notes here and a full description in trip report)							<b>ALL - used all the time in fishing</b> <b>TRA - used only in transit</b> <b>OIF - used often in fishing</b> <b>SIF - used sometimes in fishing</b> <b>RAR - rarely used</b> <b>BRO - broken now but used normally</b> <b>NOL - no longer ever used</b>  <b>N.B. - fishing can be searching, setting, retrieving, deploying, investigating, etc.</b>				

# GENERAL INFORMATION

Notes on FORM PS-1 (pg 1)

MAR. 2014

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

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

If observer trip does not cover a normal complete fishing trip explain reasons why in trip report - also see "Partial trips" notes, below.

## TRIP DETAILS

<b>OBSERVER</b>	<b>NAME and NATIONALITY</b>	First and family names must be in full and in correct order (e.g. "John Masa" not "Masa, John"). Nationality as passport.				
	<b>TRIP ID NO.</b>	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").				
	<b>TRIP START (SHIP'S DATE and TIME)</b>	<table style="width: 100%; border: none;"> <tr> <td style="width: 60%; border: none;">} Print date using "year year/ month month / day day" format.</td> <td style="width: 40%; border: none; text-align: center;">_____</td> </tr> <tr> <td style="border: none;">} Print time using 24 hour "hour hour : minute minute" format.</td> <td style="border: none; text-align: center;">USE SHIP'S TIME (and DATE)</td> </tr> </table>	} Print date using "year year/ month month / day day" format.	_____	} Print time using 24 hour "hour hour : minute minute" format.	USE SHIP'S TIME (and DATE)
	} Print date using "year year/ month month / day day" format.	_____				
} Print time using 24 hour "hour hour : minute minute" format.	USE SHIP'S TIME (and DATE)					
<b>TRIP END</b>	(e.g. Print five past one on the afternoon on 3rd of January, 1996 as "96/01/03 - 13:05").					
	<b>TRIP START LOCATION / TRIP END LOCATION / VESSEL DEPARTURE PORT:</b>	Record in all three boxes even if the same port.				
	<b>Partial trips</b>	N.B.: Observer trip officially starts and ends only when the vessel on which the catch is actually observed is boarded and disembarked. If boat met at sea "Trip Start Date and Time" is day of transfer from transit vessel to observed boat. "Trip Start Location" is "At sea". If transferred off host vessel to another to return to port "Trip End Date and Time" is day of transfer. Trip End Location is "At sea". In each case 'at sea' should be followed by a position in degrees and minutes (dd <sup>0</sup> nm) only.				
	<b>Multiple trips</b>	- If observing catch on 2 (or more) boats, each new observed boat must be a new trip with separate observer trip ID No. and new forms.				
	<b>VESSEL NAME</b>	Full name with no abbreviations. E.g.: a vessel with the name "Captain Paul John Smith" should not be abbreviated to Capt. P.J. Smith.				
	<b>FISHING PERMIT / LICENSE NUMBERS</b>	Record all numbers of current fishing licenses on board. This may include more than one license. There should be at least one on board if the vessel fishes in any EEZ waters. Note country the license comes from in brackets alongside number. E.g.: K3453789H (Kiribati).				

## VESSEL CHARACTERISTICS

<b>VESSEL OWNER</b>	Name of Company or Person who owns the vessel. This should be in the Registration Papers.			
<b>COUNTRY REGISTRATION NUMBER</b>	Number given by the Country (Flag State) to where the vessel is registered. This can be found in the registration papers of the vessel. Do not confuse this with FFA Regional Registration Number.			
<b>VESSEL FLAG</b>	Country where vessel is registered. E.g.: Japanese purse seiners are usually registered in Japan so their Flag State is Japan.			
<b>IRCS (international radio call sign)</b>	Series of numbers and letters painted on the side of the boat, must be either in black lettering on a white background or white on black.			
<b>UVI - Unique Vessel Identifier</b>	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>NO OF SPEED BOATS</b>	Number of speed boats. Don't count tow boats, or a boat that looks like a speed boat but is only used as a tow boat.			
<b>NO OF AUXILIARY BOATS</b>	Count only the tow boats and light boats that the vessel keeps <u>onboard</u> . Don't count a speed boat if it is already counted.			
<b>Do OTHER TENDER BOATS WORK with CATCHER ?</b>	Boats (ranger boats, light boats, reefers, etc.) not carried on board but work with the catcher boat as a regular part of the fishing strategy. N.B.: do not include such boats, operating as light boats, in the count of "Auxiliary boats onboard". Describe operations in trip report.			
<b>NET SKIFF ENGINE MAKE / POWER</b>	Brand of engine used in net skiff and the power (horsepower - hp) of the engine. Get this from the skiff driver. E.g.: Caterpillar 3408 (400hp)	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"><b>LENGTH</b></td> <td style="width: 50%;"><b>GROSS TONNAGE</b></td> </tr> </table> <p>The place to find vessel's length overall (LOA) and gross tonnage is on registration papers. Be alert for any signs that suggest there has been a change to length and/or gross tonnage. Note in report.</p>	<b>LENGTH</b>	<b>GROSS TONNAGE</b>
<b>LENGTH</b>	<b>GROSS TONNAGE</b>			
<b>VESSEL CRUISING SPEED</b>	Ask the captain for the cruising speed of the vessel (not top speed).			
<b>HELICOPTER MAKE/MODEL REGISTRATION NO.</b>	Brand name and model of the helicopter. Ask the pilot if you need to. Registration No. of helicopter. Written on side or pontoons or ask pilot.			
<b>EFFECTIVE RANGE</b>	Distance helicopter can go and return safely, without running out of fuel.			
<b>COLOUR of HELIC</b>	Main colour or colours of the helicopter			

## FISHING GEAR

<b>POWER BLOCK - Make - Model</b>	Brand of main power block on the vessel. The model of the block.	If these cannot be seen, ask the captain, engineer or winch driver. Only fill in this information if sure it is correct.
<b>PURSE WINCH - Make - Model</b>	Brand of main purse winch on the vessel. The model of the winch.	If unsure, record the information in your written report only, with a note.
<b>MAX. NET DEPTH</b>	Deepest depth of the net wall when it has been set.	M = Metres; Y = Yards; F = Fathoms. Make sure you circle the correct unit used on the vessel for net
<b>MAX. NET LENGTH</b>	The length of the net when it has been set.	Make sure you circle the correct unit used for net measurements
<b>NET - No Of STRIPS</b>	Each net is made up of strips of netting sewn together to create the depth of the net (e.g.: if the depth of net is to be 300 metres then 30 strips of 10 metre wide net are required to make the net depth (adding strips deepens the net, removing strips makes it shallower). How many of these strips make up the net? Ask the deck boss or engineer for this information.	
<b>NET MESH SIZE OF MAIN SECTION</b>	The mesh is a different size in different parts of the net. The mesh size required here is the mesh size of the main body of the net. Make sure the units are recorded in "CM" (centimetres) or "IN" (inches). Ask the Deck Boss.	
<b>CAPACITY OF BRAIL</b>	The capacity in <b>metric tonnes</b> . This is needed for the observer to estimate catch brought onboard. If there is a second brail onboard (mostly on Japanese vessels) also record capacity of second brail.	N.B.: call these <b>BRAIL 1</b> and <b>BRAIL 2</b> -also for PS-4s.
<b>BRAIL TYPE &amp; LIVE FISH BRAILING</b>	Describe the brailing operation <b>exactly</b> . This should include: how the mouth of the net was held open (i.e. with the skiff or by a boom); design of the actual brail (long or short handle, no handle, x-shaped, etc.); is the brail linked to a boom or the purse davit; etc. If the vessel intentionally brails live fish onboard and processes these tuna differently mark Yes. A full description of the brail type and any live fish brailing should be included in the observer's written report.	
<b>ELECTRONICS-YES / NO</b>	If vessel has a device, circle "Y" (yes); if it does not have the device circle "N" (no). You must circle "Y" or "N" for every device listed.	
<b>USAGE</b>	use codes (bottom front of form) to show how much each piece of equipment, for which "Y" is circled, is used.	
<b>NEW TECH:</b>	Only record new types of equip. or major upgrades to technology here. Not to be used to record old or unlisted equip. i.e. radio. Give a full description of any new equipment or new capability (through upgrades technology) in the journal and then the written report.	
<b>AIS</b>	Automatic Identification System: Transponding unit that will be attached to VHF Antenna, but maybe located inside. The unit will be marked AIS.	
<b>MAKE AND MODEL</b>	Name of company and model (name or number) of each device listed. Don't mix up make and model. E.g.: for a "JRC, JMA - 7790": "JRC" is the brand (make); "JMA - 7790" is the model.	
<b>VMS System: INFORMATION SERVICES</b>	Record the manufacturer's name (e.g.: Trimble, Thrane and Thrane, Furuno, etc.) and the model of the MTU unit, if possible. Vessels may access "Fishery information services" to get instant or daily information on oceanographic features that affect fishing. Commonly accessed info., includes phytoplankton density, sea-surface temperature (SST) and sea height. Describe in written report.	

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

<p>Make notes if there is anything special about this boat compared to others. Comment if equipment is not working, not used or used in unusual way. Describe fishing gear if different to equipment you see on other purse seiners and record make, model, special characteristics and usage of new gear. If lots to write about (good) do so in journal and in special section of trip report. Brief note here and refer to page numbers where in journal / report.</p>
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**SPC/FFA REGIONAL PURSE SEINE OBSERVER  
GENERAL INFORMATION**

**FORM PS - 1 (pg 2)**

REV. MAR. 14

OBSERVER NAME	VESSEL NAME	OBSERVER TRIP ID NUMBER
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**TOTAL POSSIBLE FISH STORAGE CAPACITY (in metric tonnes):** →  mT

CREW	NAME	YRS.EXP	NATIONALITY	COMMENTS
CAPTAIN				License No. ?
MASTER				License No. ?
NAVIGATOR				
MATE				
CHIEF ENGINEER				
ASSISTANT ENGINEER				
DECK BOSS				
COOK				
HELICOPTER PILOT				
HELICOPTER MECHANIC				
RADIO OPERATOR				
SKIFF MAN				
WINCH MAN				
TRANSLATOR				

CREW	NAME	YRS.EXP	NATIONALITY	CREW	NAME	YRS.EXP	NATIONALITY

**TOTAL NUMBER OF CREW (include Captain and officers):** →

<b>WASTE DISPOSAL SYSTEM</b>	<b>Y / N</b>	<b>SAFETY EQUIPMENT</b>			
DESCRIBE waste disposal system especially for fish offal, but also other waste.		<b>LIFE JACKET</b>		PROVIDED FOR OBSERVER:	Y / N / O
		AVAILABILITY (circle one)	SUITABLE SIZE:		Y / N
			Easy	Moderate	Hard
		<b>LIFE RAFTS</b> No. of people and inspection due date(D) or last date of inspection (L)	1		2
No	No		No	No	
	YY / MM (LorD)	YY / MM (LorD)	YY / MM (LorD)	YY / MM (LorD)	
<b>EPIRB (406)</b>	Total No.	No. with Exp. Batteries	<b>EPIRB (other)</b>	Total No.	No. with Exp. Batteries

**COMMENTS or DRAWING of WELL PATTERN**

# GENERAL INFORMATION

Notes on Form PS-1 (pg.2)

REV. MARCH 2014

<b>OBSERVER NAME</b>	Print your name in full. Put your first name, or Christian name, first and your last name, or surname, last.
<b>VESSEL NAME</b>	Print the vessel's name in full as stated on its fishing licence. Don't use any abbreviations.
<b>OBSERVER TRIP ID NO.</b>	Fill in your trip identification number as supplied by your programme before departure - exactly as on PS-1 (pg.1) and elsewhere.

## CREW

<b>NAME</b>	<p>For each of the listed positions enter the name of the crew person who works in this position. This information should be available on the crew list that must be given to immigration when a vessel visits port. Record first name first and last name last. Be certain of the spelling.</p> <p>If a person holds more than one position write "same as (the other position they hold)". E.g.: if Joe Flyer is both helicopter pilot and helicopter mechanic, write "Joe Flyer" next to "Helicopter Pilot" and write "same as helicopter pilot" next to "helicopter mechanic".</p> <p>Another common double position is the Captain and Navigator/Master. If the vessel does not have anyone in the position indicated write "Vacant" in the "Name" column.</p> <p>If the vessel has a specialist position that is not listed here try to squeeze the name of that position followed by a dash (-) and the name of the person holding the position in one of the "Crew" rows below. Be sure to describe this position in the written trip report.</p>
<b>YEARS EXPERIENCE (YRS.EXP)</b>	<p>For each crew member not working in a specialist position correctly record the name, number of years of experience and the nationality in the lower crew sections.</p> <p>Record the number of years experience the crew member or officer has <b>in this position</b>. E.g.: if the Captain has been fishing on purse seine vessels for 20 years but has only been a Fishing Captain on purse seine vessels for five years write in "5".</p>
<b>NATIONALITY</b>	Nationality should be available on the crew list. Pay special attention to the nationality of any Pacific Islanders amongst the crew.
<b>COMMENTS</b>	<p>Record any information about the crew in this column. Any relevant information may be useful. Examples could include: name of boat previously worked; name of Fishery College attended; famous fishing family connection; etc.</p> <p>To be recorded if readily available but not necessary if obtaining it will in any way hinder other observer activities on board. If licence is not available then try to obtain other identification document types (e.g. passport) and their document numbers.</p>
<b>TOTAL NUMBER OF CREW (include Captain and officers)</b>	<p>Add up all the crew. Include the Captain, listed positions and other crew. But be very careful not to count any of the crew twice.</p> <p>This is an easy mistake to make in situations where one crew person has two different positions. Be Careful!</p>

## WASTE DISPOSAL SYSTEM

Circle "Y" or "N" (yes or no) to show if the vessel has equipment and / or follows standard procedures to manage fish offal or other waste.

Examples of equipment of equipment include incinerators, crushers, shredders, compacters, balers, meal plants, etc.

Example of procedures might be keeping all plastic waste until the end of the trip. If present describe how these are used and how effectively they are used in your trip report. (i.e., what pollution control processes does the vessel have?)

## SAFETY EQUIPMENT

(obtain as much information as possible without intruding)

<b>LIFEJACKET</b>	<p>If observer has their own (or a fisheries) life jacket (LJ), the "O" must be circled.</p> <p>Otherwise circle the "Y" or "N" to show if the vessel showed the observer a L J that they could use in an emergency. Also circle the "Y" or "N" to show if the LJ the vessel offered was a suitable size. Circle "easy" if the allocated L.J was easily available, "moderate" if not so easy to get to, or "hard" if it would be very hard to find in an emergency.</p>
<b>EPIRBs</b>	Count all EPIRBs together (with or without expired batteries). Then count only those with expired batteries.
<b>LIFEBUOYS / LIFERINGS</b>	Count all lifebuoys and life rings that can be found
<b>LIFERAFTS</b>	Find info on labels on life-rafts. If, <b>after a careful check</b> , dates are not found, record "ND" for 'dates not displayed'.

OBSERVER PROGRAMME:

**SPC/FFA REGIONAL PURSE SEINE  
GENERAL INFORMATION**

**FORM PS-1 (pg 1)**

REV. MAR. 2014

TRIP DETAILS												
CROSS RYER	NAME		TRIP START LOCATION				TRIP START (SHIP'S DATE AND TIME)					
	YY	MM	DD	h	h	m	m					
	NATIONALITY	TRIP ID NUMBER		TRIP END LOCATION				TRIP END (SHIP'S DATE AND TIME)				
	YY	MM	DD	h	h	m	m					
VESSEL NAME			FISHING PERMIT / LICENSE No.s				VESSEL DEPARTURE PORT			VESSEL DEPARTURE DATE		
								YY	MM	DD		

VESSEL CHARACTERISTICS											
VESSEL OWNER			COUNTRY REG. No.		IRCS	UVI	FLAG	LENGTH	M F	GROSS TONNAGE mT	
No. of SPEED BOATS	No. of OTHER ONBOARD AUXILIARY BOATS		Do OTHER TENDER BOATS WORK with CATCHER? Y / N		MAKE / POWER		VESSEL CRUISING SPEED: hp		kts		
<b>HELICOPTER CHARACTERISTICS</b>		MAKE	MODEL	REGISTRATION NUMBER		EFFECTIVE RANGE KM NM	COLOUR	No. of VESSELS that the HELICOPTER SERVICES: (including this vessel)			

FISHING GEAR										
POWER BLOCK:		MAKE	MODEL	PURSE WINCH:		MAKE	MODEL	BRAIL CAPACITY (of first brail) <b>BRAIL 1</b> mT		
NET - MAX. DEPTH:	M Y F	NET - MAX. LENGTH:	Metres Yards Fathoms	NET - No. of STRIPS	NET - MESH SIZE (of main body)	CM	IN	BRAIL CAPACITY (of second brail) <b>BRAIL 2</b> mT		
BRAILING TYPE DESCRIPTION:									LIVE FISH BRAILING: Y / N	

ELECTRONICS										
		GPS	Y / N	USAGE	DEPTH SOUNDER			Y / N	USAGE	
		TRACK PLOTTER	Y / N		SST GAUGE			Y / N		
		EQUIPMENT TYPE		USAGE	MAKE	MODEL	COMMENTS			
ADVANCE in TECH			EQUIPMENT TYPE	Y / N						
			EQUIPMENT TYPE	Y / N						
		AIS		Y / N						
		BIRD RADAR		Y / N						
		SONAR		Y / N						
		GPS BUOYS		Y / N						
		ECHO SOUNDING BUOY		Y / N						
		NET DEPTH INSTRUMENTATION		Y / N						
		DOPPLER CURRENT METER		Y / N						
VMS SYSTEMS	1			Y / N						
	2			Y / N						
COMMUNICATION SERVICES		PHONES	SATELLITE:	Y / N	Phone No.	MOBILE:	Y / N	Phone No.		
		OTHER	FACSIMILE:	Y / N	Fax No.	EMAIL:	Y / N	Email:		
INFORMATION SERVICES		WEATHER	WEATHER FAX:	Y / N	SATELLITE MONITOR	Y / N				
		OTHER	Y / N	url :	Phytoplankton	Y / N	SST	Y / N	Sea Height	Y / N

OBSERVATIONS / COMMENTS / OTHER GEAR / UNUSUAL USE OF GEAR (write brief notes here and a full description in trip report)	USAGE CODES (for "USAGE" columns)
	<p><b>ALL</b> - used all the time in fishing  <b>TRA</b> - used only in transit  <b>OIF</b> - used often in fishing  <b>SIF</b> - used sometimes in fishing  <b>RAR</b> - rarely used  <b>BRO</b> - broken now but used normally  <b>NOL</b> - no longer ever used</p> <p><b>NB</b> - fishing can be searching, setting, retrieving, deploying, investigating, etc.</p>

# GENERAL INFORMATION

Notes on FORM PS-1 (pg 1)

MAR. 2014

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

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

If observer trip does not cover a normal complete fishing trip explain reasons why in trip report - also see "Partial trips" notes, below.

## TRIP DETAILS

<b>OBSERVER</b>	<b>NAME and NATIONALITY</b>	First and family names must be in full and in correct order (e.g. "John Masa" not "Masa, John"). Nationality as passport.
	<b>TRIP ID NO.</b>	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").
	<b>TRIP START (SHIP'S DATE and TIME)</b>	Print date using "year year / month month / day day" format.
	<b>TRIP END</b>	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").
	<b>TRIP START LOCATION / TRIP END LOCATION / VESSEL DEPARTURE PORT:</b>	Record in all three boxes even if the same port.
	<b>Partial trips</b>	N.B.: Observer trip officially starts and ends only when the vessel on which the catch is actually observed is boarded and disembarked. If boat met at sea "Trip Start Date and Time" is day of transfer from transit vessel to observed boat. "Trip Start Location" is "At sea". If transferred off host vessel to another to return to port "Trip End Date and Time" is day of transfer. Trip End Location is "At sea". In each case 'at sea' should be followed by a position in degrees and minutes (dd <sup>0</sup> mm') only.
	<b>Multiple trips</b>	- If observing catch on 2 (or more) boats, each new observed boat must be a new trip with separate observer trip ID No. and new forms.
	<b>VESSEL NAME</b>	Full name with no abbreviations. E.g.: a vessel with the name "Captain Paul John Smith" should not be abbreviated to Capt. P.J. Smith.
	<b>FISHING PERMIT / LICENSE NUMBERS</b>	Record all numbers of current fishing licenses on board. This may include more than one license. There should be at least one on board if the vessel fishes in any EEZ waters. Note country the license comes from in brackets alongside number. E.g.: K3453789H (Kiribati).

## VESSEL CHARACTERISTICS

<b>VESSEL OWNER</b>	Name of Company or Person who owns the vessel. This should be in the Registration Papers.					
<b>COUNTRY REGISTRATION NUMBER</b>	Number given by the Country (Flag State) to where the vessel is registered. This can be found in the registration papers of the vessel. Do not confuse this with FFA Regional Registration Number.					
<b>VESSEL FLAG</b>	Country where vessel is registered. E.g.: Japanese purse seiners are usually registered in Japan so their Flag State is Japan.					
<b>IRCS (international radio call sign)</b>	Series of numbers and letters painted on the side of the boat, must be either in black lettering on a white background or white on black.					
<b>UVI - Unique Vessel Identifier</b>	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>NO OF SPEED BOATS</b>	Number of speed boats. Don't count tow boats, or a boat that looks like a speed boat but is only used as a tow boat.					
<b>NO OF AUXILIARY BOATS</b>	Count only the tow boats and light boats that the vessel keeps <u>onboard</u> . Don't count a speed boat if it is already counted.					
<b>Do OTHER TENDER BOATS WORK with CATCHER ?</b>	Boats (ranger boats, light boats, reefers, etc.) not carried on board but work with the catcher boat as a regular part of the fishing strategy. N.B.: do not include such boats, operating as light boats, in the count of "Auxiliary boats onboard". Describe operations in trip report.					
<b>NET SKIFF ENGINE MAKE / POWER</b>	Brand of engine used in net skiff and the power (horsepower - hp) of the engine. Get this from the skiff driver. E.g.: Caterpillar 3408 (400hp)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><b>LENGTH</b></td> <td style="width: 50%;"><b>GROSS TONNAGE</b></td> </tr> <tr> <td colspan="2">The place to find vessel's length overall (LOA) and gross tonnage is on registration papers. Be alert for any signs that suggest there has been a change to length and/or gross tonnage. Note in report.</td> </tr> </table>	<b>LENGTH</b>	<b>GROSS TONNAGE</b>	The place to find vessel's length overall (LOA) and gross tonnage is on registration papers. Be alert for any signs that suggest there has been a change to length and/or gross tonnage. Note in report.	
<b>LENGTH</b>	<b>GROSS TONNAGE</b>					
The place to find vessel's length overall (LOA) and gross tonnage is on registration papers. Be alert for any signs that suggest there has been a change to length and/or gross tonnage. Note in report.						
<b>VESSEL CRUISING SPEED</b>	Ask the captain for the cruising speed of the vessel (not top speed).					
<b>HELICOPTER MAKE/MODEL REGISTRATION NO.</b>	Brand name and model of the helicopter. Ask the pilot if you need to. Registration No. of helicopter. Written on side or pontoons or ask pilot.					
<b>EFFECTIVE RANGE</b>	Distance helicopter can go and return safely, without running out of fuel.					
<b>COLOUR of HELIC</b>	Main colour or colours of the helicopter					

## FISHING GEAR

<b>POWER BLOCK - Make - Model</b>	Brand of main power block on the vessel. The model of the block.	If these cannot be seen, ask the captain, engineer or winch driver. Only fill in this information if sure it is correct.
<b>PURSE WINCH - Make - Model</b>	Brand of main purse winch on the vessel. The model of the winch.	If unsure, record the information in your written report only, with a note.
<b>MAX. NET DEPTH</b>	Deepest depth of the net wall when it has been set.	M = Metres; Y = Yards; F = Fathoms. Make sure you circle the correct unit used on the vessel for net
<b>MAX. NET LENGTH</b>	The length of the net when it has been set.	Make sure you circle the correct unit used for net measurements
<b>NET - No OF STRIPS</b>	Each net is made up of strips of netting sewn together to create the depth of the net (e.g.: if the depth of net is to be 300 metres then 30 strips of 10 metre wide net are required to make the net depth (adding strips deepens the net, removing strips makes it shallower). How many of these strips make up the net? Ask the deck boss or engineer for this information.	
<b>NET MESH SIZE OF MAIN SECTION</b>	The mesh is a different size in different parts of the net. The mesh size required here is the mesh size of the main body of the net. Make sure the units are recorded in "CM" (centimetres) or "IN" (inches). Ask the Deck Boss.	
<b>CAPACITY OF BRAIL</b>	The capacity in <b>metric tonnes</b> . This is needed for the observer to estimate catch brought onboard. If there is a second brail onboard (mostly on Japanese vessels) also record capacity of second brail.	N.B.: call these <b>BRAIL 1</b> and <b>BRAIL 2</b> -also for PS-4s.
<b>BRAIL TYPE &amp; LIVE FISH BRAILING</b>	Describe the brailing operation <b>exactly</b> . This should include: how the mouth of the net was held open (i.e. with the skiff or by a boom); design of the actual brail (long or short handle, no handle, x-shaped, etc.); is the brail linked to a boom or the purse davit; etc. If the vessel intentionally brails live fish onboard and processes these tuna differently mark Yes. A full description of the brail type and any live fish brailing should be included in the observer's written report.	
<b>ELECTRONICS- YES / NO</b>	If vessel has a device, circle "Y" (yes); if it does not have the device circle "N" (no). You must circle "Y" or "N" for every device listed.	
<b>USAGE</b>	use codes (bottom front of form) to show how much each piece of equipment, for which "Y" is circled, is used.	
<b>NEW TECH:</b>	Only record new types of equip. or major upgrades to technology here. Not to be used to record old or unlisted equip. i.e. radio. Give a full description of any new equipment or new capability (through upgrades technology) in the journal and then the written report.	
<b>AIS</b>	Automatic Identification System: Transponding unit that will be attached to VHF Antenna, but maybe located inside. The unit will be marked AIS.	
<b>MAKE AND MODEL</b>	Name of company and model (name or number) of each device listed. Don't mix up make and model. E.g.: for a "JRC, JMA - 7790": "JRC" is the brand (make); "JMA - 7790" is the model.	
<b>VMS System: INFORMATION SERVICES</b>	Record the manufacturer's name (e.g.: Trimble, Thrane and Thrane, Furuno, etc.) and the model of the MTU unit, if possible. Vessels may access "Fishery information services" to get instant or daily information on oceanographic features that affect fishing. Commonly accessed info., includes phytoplankton density, sea-surface temperature (SST) and sea height. Describe in written report.	

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

<p>Make notes if there is anything special about this boat compared to others. Comment if equipment is not working, not used or used in unusual way. Describe fishing gear if different to equipment you see on other purse seiners and record make, model, special characteristics and usage of new gear. If lots to write about (good) do so in journal and in special section of trip report. Brief note here and refer to page numbers where in journal / report.</p>
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**SPC/FFA REGIONAL PURSE SEINE OBSERVER  
GENERAL INFORMATION**

**FORM PS - 1 (pg 2)**

REV. MAR. 14

OBSERVER NAME	VESSEL NAME	OBSERVER TRIP ID NUMBER
---------------	-------------	-------------------------

**TOTAL POSSIBLE FISH STORAGE CAPACITY (in metric tonnes):** →  mT

CREW	NAME	YRS.EXP	NATIONALITY	COMMENTS
CAPTAIN				License No. ?
MASTER				License No. ?
NAVIGATOR				
MATE				
CHIEF ENGINEER				
ASSISTANT ENGINEER				
DECK BOSS				
COOK				
HELICOPTER PILOT				
HELICOPTER MECHANIC				
RADIO OPERATOR				
SKIFF MAN				
WINCH MAN				
TRANSLATOR				

CREW	NAME	YRS.EXP	NATIONALITY	CREW	NAME	YRS.EXP	NATIONALITY

**TOTAL NUMBER OF CREW (include Captain and officers):** →

WASTE DISPOSAL SYSTEM	Y / N	SAFETY EQUIPMENT						
DESCRIBE waste disposal system especially for fish offal, but also other waste.		<b>LIFE JACKET</b>	PROVIDED FOR OBSERVER:		Y / N / O			
		AVAILABILITY (circle one)	SUITABLE SIZE:		Y / N			
			Easy	Moderate	Hard			
		<b>LIFE RAFTS</b> No. of people and inspection due date(D) or last date of inspection (L)	<b>1</b>		<b>2</b>		<b>3</b>	
No	No		No	No				
YY / MM (LorD)	YY / MM (LorD)		YY / MM (LorD)	YY / MM (LorD)				
<b>EPIRB (406)</b>	Total No.	No. with Exp. Batteries	<b>EPIRB (other)</b>	Total No.	No. with Exp. Batteries			

**COMMENTS or DRAWING of WELL PATTERN**

# GENERAL INFORMATION

REV. MARCH 2014

<b>OBSERVER NAME</b>	Print your name in full. Put your first name, or Christian name, first and your last name, or surname, last.
<b>VESSEL NAME</b>	Print the vessel's name in full as stated on its fishing licence. Don't use any abbreviations.
<b>OBSERVER TRIP ID NO.</b>	Fill in your trip identification number as supplied by your programme before departure - exactly as on PS-1 (pg.1) and elsewhere.

## CREW

<b>NAME</b>	<p>For each of the listed positions enter the name of the crew person who works in this position. This information should be available on the crew list that must be given to immigration when a vessel visits port. Record first name first and last name last. Be certain of the spelling.</p> <p>If a person holds more than one position write "same as (the other position they hold)". E.g.: if Joe Flyer is both helicopter pilot and helicopter mechanic, write "Joe Flyer" next to "Helicopter Pilot" and write "same as helicopter pilot" next to "helicopter mechanic".</p> <p>Another common double position is the Captain and Navigator/Master. If the vessel does not have anyone in the position indicated write "Vacant" in the "Name" column.</p> <p>If the vessel has a specialist position that is not listed here try to squeeze the name of that position followed by a dash (-) and the name of the person holding the position in one of the "Crew" rows below. Be sure to describe this position in the written trip report.</p>
<b>(for listed specialist positions)</b>	
<b>(for non-specialist positions)</b>	For each crew member not working in a specialist position correctly record the name, number of years of experience and the nationality in the lower crew sections.
<b>YEARS EXPERIENCE (YRS.EXP)</b>	Record the number of years experience the crew member or officer has <b>in this position</b> . E.g.: if the Captain has been fishing on purse seine vessels for 20 years but has only been a Fishing Captain on purse seine vessels for five years write in "5".
<b>NATIONALITY</b>	Nationality should be available on the crew list. Pay special attention to the nationality of any Pacific Islanders amongst the crew.
<b>COMMENTS</b>	Record any information about the crew in this column. Any relevant information may be useful. Examples could include: name of boat previously worked; name of Fishery College attended; famous fishing family connection; etc.
<b>License No.s (Captain / Master / Navigator)</b>	To be recorded if readily available but not necessary if obtaining it will in any way hinder other observer activities on board. If licence is not available then try to obtain other identification document types (e.g. passport) and their document numbers.
<b>TOTAL NUMBER OF CREW (include Captain and officers)</b>	Add up all the crew. Include the Captain, listed positions and other crew. But be very careful not to count any of the crew twice. This is an easy mistake to make in situations where one crew person has two different positions. Be Careful!

## WASTE DISPOSAL SYSTEM

Circle "Y" or "N" (yes or no) to show if the vessel has equipment and / or follows standard procedures to manage fish offal or other waste.

Examples of equipment of equipment include incinerators, crushers, shredders, compacters, balers, meal plants, etc.

Example of procedures might be keeping all plastic waste until the end of the trip. If present describe how these are used and how effectively they are used in your trip report. (i.e., what pollution control processes does the vessel have?)

## SAFETY EQUIPMENT

(obtain as much information as possible without intruding)

<b>LIFEJACKET</b>	<p>If observer has their own (or a fisheries) life jacket (LJ), the "O" must be circled.</p> <p>Otherwise circle the "Y" or "N" to show if the vessel showed the observer a L J that they could use in an emergency. Also circle the "Y" or "N" to show if the LJ the vessel offered was a suitable size. Circle "easy" if the allocated L.J was easily available, "moderate" if not so easy to get to, or "hard" if it would be very hard to find in an emergency.</p>
<b>EPIRBs</b>	Count all EPIRBs together (with or without expired batteries). Then count only those with expired batteries.
<b>LIFEBUOYS / LIFE RINGS</b>	Count all lifebuoys and life rings that can be found
<b>LIFE RAFTS</b>	Find info on labels on life-rafts. If, <b>after a careful check</b> , dates are not found, record "ND" for 'dates not displayed'.



# SPC/FFA REGIONAL PURSE SEINE OBSERVER DAILY LOG

**FORM PS - 2**

REV. MAR. 2014

OBSERVER NAME	VESSEL NAME	OBSERVER TRIP ID NUMBER	PAGE _____ OF _____								
SHIPS TIME	LATITUDE (dd°mm.mmm')	N S	LONGITUDE (ddd°mm.mmm')	E W	EEZ CODE	ACTIVITY CODE	WIND (kts) (°)	SEA C-S-M-R-V	HOW DETECT	SCHOOL ASSOC	COMMENTS (and Set No. - from PS-3)
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											

<b>START OF DAY</b>	
SHIP'S DATE	SHIP'S TIME
UTC DATE	UTC TIME

**ALL MUST BE RECORDED**

**ACTIVITY and HELICOPTER CODES**

- 1 Set If FAD involved be sure to fill out a GEN-5 Form - FAD and Floating Object Information Record
- 2 Searching
- 3 Transit
- 4 No fishing - Breakdown
- 5 No fishing - Bad weather
- 6 In port - please specify
- 7 Net cleaning set
- 8 Investigate free school
- 9 Investigate floating object
- 10R Deploy - raft, FAD or payao
- 10R Retrieve - raft, FAD or payao
- 11 No fishing - Drifting at day's end
- 12 No fishing - Drifting with floating object
- 13 No fishing - Other reason (specify)
- 14 Drifting -With fish aggregating lights
- 15R Retrieve radio buoy
- 15D Deploy radio buoy
- 16 Transhipping or bunkering
- 17 Servicing FAD or floating object
- H1 Helicopter takes off to search
- H2 Helicopter returned from search
- 

**HOW DETECTED**

- 1 Seen from vessel
  - 2 Seen from helicopter
  - 3 Marked with beacon
  - 4 Bird radar
  - 5 Sonar / depth sounder
  - 6 Info. from other vessel
  - 7 Anchored FAD / payao (recorded)
  -
- "Seen from helicopter" Use when vessel gets to the school of tuna that helicopter either:  
1. reported on; or  
2. dropped buoy on

**SCHOOL ASSOCIATION (tuna)**

- 1 Unassociated
- 2 Feeding on Baifish } Free schools
- 3 Drifting log, debris or dead animal
- 4 Drifting raft, FAD or payao
- 5 Anchored raft, FAD or payao
- 6 Live whale
- 7 Live whale shark
- 8 Other (please specify)
- 9 No tuna associated

FLOATING OBJECT AND SCHOOL SIGHTINGS	Anchored floating objects (with NO school)		Free floating objects (no anchor) (with school)		Free floating objects (with NO school)		Free schools	
	Tally	No.	Tally	No.	Tally	No.	Tally	No.
Example <i>///</i>	6							

**DID YOU OBSERVE ANY EVENTS TO RECORD ON FORM GEN-3 TODAY**

**Journal**

YES NO  
(circle one) pg #

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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**Use 15R and 15D when vessel retrieves or deploys a buoy set** on FAD or log  
- if changing buoys use 15R on one line and 15D on the next.

If using **code 16** remember that **transhipment** includes any transfer between vessels  
Use **code 17** if making any repair or change to floating objects other than changing buoys  
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N.B.: usually a depth sounder or sonar is only used to investigate an already found object or fish, so code "5" should not be used very often. It is usually something else that first causes a vessel to change direction to investigate a school or floating object further.

Anchored FAD - use code 7 only if FAD is found because its position is recorded on chart.

School Association (tuna): Use "School Association" code that best describes if **tuna** being targeted are with floating object, animal, feeding on baitfish, unassociated.

If it is an unusual **tuna** association comment here and describe in journal.

# SPC/FFA REGIONAL PURSE SEINE OBSERVER DAILY LOG

## FORM PS - 2

REV. MAR. 2014

OBSERVER NAME		VESSEL NAME		OBSERVER TRIP ID NUMBER		PAGE	OF				
SHIP'S TIME	LATITUDE (dd°mm.mmmm')	N S	LONGITUDE (ddd°mm.mmmm')	E W	EEZ CODE	ACTIVITY CODE	WIND (kts) (°)	SEA (C-S-M-R-V)	HOW DETECT	SCHOOL ASSOC	COMMENTS (and Set No. - from PS-3)
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											

START OF DAY	
SHIP'S DATE	SHIP'S TIME
UTC DATE	UTC TIME

**ALL MUST BE RECORDED**

**ACTIVITY and HELICOPTER CODES.**

- 1 Set If FAD involved be sure to fill out a GEN-5 Form - FAD and Floating Object Information - Record
- 2 Searching
- 3 Transit
- 4 No fishing - Breakdown
- 5 No fishing - Bad weather
- 6 In port - please specify
- 7 Net cleaning set
- 8 Investigate free school
- 9 Investigate floating object
- 10 Deploy - raft, FAD or payao
- 10R Retrieve - raft, FAD or payao
- 11 No fishing - Drifting at day's end
- 12 No fishing - Drifting with floating object
- 13 No fishing - Other reason (specify)
- 14 Drifting - With fish aggregating lights
- 15R Retrieve radio buoy
- 15D Deploy radio buoy
- 16 Transhipping or bunkering
- 17 Servicing FAD or floating object
- H1 Helicopter takes off to search
- H2 Helicopter returned from search
- 

**HOW DETECTED.**

- 1 Seen from vessel
  - 2 Seen from helicopter
  - 3 Marked with beacon
  - 4 Bird radar
  - 5 Sonar / depth sounder
  - 6 Info. from other vessel
  - 7 Anchored FAD / payao (recorded)
  -
- "Seen from helicopter"  
Use when vessel gets to the school of tuna that helicopter either:  
1. reported on; or  
2. dropped buoy on

**SCHOOL ASSOCIATION (tuna)**

- 1 Unassociated
- 2 Feeding on Baftfish } Free schools
- 3 Drifting log, debris or dead animal
- 4 Drifting raft, FAD or payao
- 5 Anchored raft, FAD or payao
- 6 Live whale
- 7 Live whale shark
- 8 Other (please specify)
- 9 No tuna associated

FLOATING OBJECT AND SCHOOL SIGHTINGS	Anchored floating objects (with NO school)		Free floating objects (no anchor) (with school)		Free floating objects (with NO school)		Free schools	
	Tally	No.	Tally	No.	Tally	No.	Tally	No.
Example N / I								
<b>6</b>								

**DID YOU OBSERVE ANY EVENTS TO RECORD ON FORM GEN-3 TODAY**

**Journal**

YES NO  
(circle one) pg #

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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# SPC/FFA REGIONAL PURSE SEINE OBSERVER DAILY LOG

**FORM PS - 2**

REV. MAR. 2014

OBSERVER NAME		VESSEL NAME		OBSERVER TRIP ID NUMBER		PAGE _____ OF _____							
SHIP'S TIME	LATITUDE (dd°mm.mmm')	N S	LONGITUDE (ddd°mm.mmm')	E W	EEZ CODE	ACTIVITY CODE	WIND (kts) (°)	SEA (C-S-M-R-V)	HOW DETECT	SCHOOL ASSOC	COMMENTS (and Set No. - from PS-3)	START OF DAY	
												SHIP'S DATE	SHIP'S TIME
												UTC DATE	UTC TIME
1													
2													
3													
4													
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FLOATING OBJECT AND SCHOOL SIGHTINGS	Anchored floating objects (with school )		Free floating objects (no anchor) (with school)		Free schools		DID YOU OBSERVE ANY EVENTS TO RECORD ON FORM GEN-3 TODAY
	Tally	No.	Tally	No.	Tally	No.	
Example							Journal
N/A							pg #

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N.B.: usually a depth sounder or sonar is only used to investigate an already found object or fish, so code "5" should not be used very often. It is usually something else that first causes a vessel to change direction to investigate a school or floating object further.

Anchored FAD - use code 7 only if FAD is found because its position is recorded on chart.

School Association (tuna): Use "School Association" code that best describes if **tuna** being targetted are with floating object, animal, feeding on baitfish, unassociated.

If it is an unusual **tuna** association comment here and describe in journal.



# SPC/FFA REGIONAL PURSE SEINE OBSERVER DAILY LOG

## FORM PS - 2

REV. MAR. 2014

OBSERVER NAME	VESSEL NAME	OBSERVER TRIP ID NUMBER	PAGE	OF
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SHIPS TIME	LATITUDE (dd°mm.mmm')	N S	LONGITUDE (ddd°mm.mmm')	E W	EEZ CODE	ACTIVITY CODE	WIND (kts) (°)	SEA C-S-M-R-V	HOW DETECT	SCHOOL ASSOC	COMMENTS (and Set No. - from PS-3)
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
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19											
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21											
22											
23											

FLOATING OBJECT AND SCHOOL SIGHTINGS	Anchored floating objects (with NO school)	Free floating objects (no anchor) (with school)	Free schools	DID YOU OBSERVE ANY EVENTS TO RECORD ON FORM GEN-3 TODAY	Journal	pg #
Example	Tally	Tally	Tally	YES	NO	
X/X/X	No.	No.	No.	(circle one)		

ALL MUST BE RECORDED
<b>ACTIVITY and HELICOPTER CODES</b> 1 Set 2 Searching 3 Transit 4 No fishing - Breakdown 5 No fishing - Bad weather 6 In port - please specify 7 Net cleaning set 8 Investigate free school 9 Investigate floating object 10R Deploy - raft, FAD or payao 10D Retrieve - raft, FAD or payao 11 No fishing - Drifting at day's end 12 No fishing - Drifting with floating object 13 No fishing - Other reason (specify) 14 Drifting -With fish aggregating lights 15R Retrieve radio buoy 15D Deploy radio buoy 16 Transhipping or bunkering 17 Servicing FAD or floating object H1 Helicopter takes off to search H2 Helicopter returned from search ---
If FAD involved be sure to fill out a GEN-5 Form - FAD and Floating Object Information Record

HOW DETECTED
1 Seen from vessel 2 Seen from helicopter 3 Marked with beacon 4 Bird radar 5 Sonar / depth sounder 6 Info. from other vessel 7 Anchored FAD / payao (recorded) ---
"Seen from helicopter" Use when vessel gets to the school of tuna that helicopter either: 1. reported on; or 2. dropped buoy on

SCHOOL ASSOCIATION (tuna)
1 Unassociated } Free schools 2 Feeding on Baifish } 3 Drifting log, debris or dead animal 4 Drifting raft, FAD or payao 5 Anchored raft, FAD or payao 6 Live whale 7 Live whale shark 8 Other (please specify) 9 No tuna associated

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 Masa, on his 3rd trip in 1996 may get Trip ID No.: "JHM 96-03").

Ships Time: Record the "Ship's time" whenever there is a change of an activity. Be sure to record all activities. Record as often as necessary during the day. At the very least, record a morning, noon and evening position when in transit.

Latitude, Longitude, N, S, E, W: Record position as degrees, minutes and minutes to three decimal places, which is usually as it is displayed on a GPS. N.B.: dd = degrees; mm = minutes; mmm = decimal minutes.

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Wind (kts) (°): Record speed in knots and direction in degrees of the compass (e.g. for a 15 knot easterly wind, under (kts) print "15" and under (°) print "090") If the wind meter shows metres per second then (kts = 2 x m/sec) approximately.

Sea conditions (C-S-M-R-V).

C = Calm; S = Slight; M = Moderate; R = Rough; V = Very rough.

Judge this yourself. A guide is the wind. If it has been blowing awhile then 0-5 kts is calm; 5-10 kts is slight; 10-20 kts is moderate; 20-40 kts is rough; and anything over 40 kts is usually very rough, however not always so.

Comments (and Set No. - from PS-3) - for all activity code "1" write the set No. before their comments in this field. Get "set No." from the PS-3 that must be used every set.

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Tally: Mark with a stroke every time you sight something (see example on front)

No : Count the "tally" strokes at end of day to get the number of each type of sighting.

Did You Observe Any Events To Record On Form GEN-3 Today ?

Circle **Yes** if any infringements, as listed on Form GEN-3, were observed.

Write notes on Form GEN-3 and in journal; record the journal page No. on this form. If there was no incident for the day circle **No**.

Page of: Number Form PS-2's through trip as Page 1, Page 2, Page 3, etc. **At end of trip** check pages are all there (again). Put last page number on every page (e.g. if there are 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").

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UTC Date and UTC Time: is standard date and time used by scientists to correct the ship's date and time when it is used incorrectly, as it often is.

Record Ship's date and time and UTC date and time at same moment each day. N.B.: UTC date is sometimes different from Ship's date.

Observers should record Ship's time in all other forms and paperwork.

Activity and Helicopter Codes: The activity codes are shown on the front.

Use only one code per entry. If it seems that two different codes could be used, record only the most important one and note the other in comments column.

Please record every activity change throughout the day. There may be many. Note that, except for Helicopter codes, the start of a new activity marked by one code also means the end of the activity identified by the previous activity code.

For codes 1, 8, 9 or 17 always use *school association (tuna)* and *how detected* codes, otherwise the school association (tuna) and how detected code fields must be dashed !

**Use 15R and 15D when vessel retrieves or deploys a buoy set on FAD or log** - if changing buoys use 15R on one line and 15D on the next.

If using code 16 remember that **transhipment** includes any transfer between vessels Use code 17 if making any repair or change to floating objects other than changing buoys Helicopter codes: Use whenever helicopter takes off or lands. Comment to describe main activity for each take off / landing - e.g.: search, set buoy, visit other (*named*) vessel, arrive from other (*named*) vessel, visit shore, rescue seaman, etc.

How Detected: Use this code to best show how investigated tuna or object was found.

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If it is an unusual **tuna** association comment here and describe in journal.

# SPC/FFA REGIONAL PURSE SEINE OBSERVER DAILY LOG

**FORM PS - 2**

REV. MAR. 2014

<b>OBSERVER NAME</b>	<b>VESSEL NAME</b>	<b>OBSERVER TRIP ID NUMBER</b>	<b>PAGE</b>	<b>OF</b>
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SHIPS TIME	LATITUDE (dd°mm.mmm')	N S	LONGITUDE (ddd°mm.mmm')	E W	EEZ CODE	ACTIVITY CODE	WIND (kts)	WIND (°)	SEA (C-S-M-R-V)	HOW DETECT	SCHOOL ASSOC	COMMENTS (and Set No. - from PS-3)	START OF DAY	
													SHIP's DATE	SHIP's TIME

**ALL MUST BE RECORDED**

**ACTIVITY and HELICOPTER CODES**

- 1 Set If FAD involved be sure to fill out a GEN-5 Form - FAD and Floating Object Information Record
- 2 Searching
- 3 Transit
- 4 No fishing - Breakdown
- 5 No fishing - Bad weather
- 6 In port - please specify
- 7 Net cleaning set
- 8 Investigate free school
- 9 Investigate floating object
- 10D Deploy - raft, FAD or payao
- 10R Retrieve - raft, FAD or payao
- 11 No fishing - Drifting at day's end
- 12 No fishing - Drifting with floating object
- 13 No fishing - Other reason (specify)
- 14 Drifting -With fish aggregating lights
- 15R Retrieve radio buoy
- 15D Deploy radio buoy
- 16 Transhipping or bunkering
- 17 Servicing FAD or floating object
- H1 Helicopter takes off to search
- H2 Helicopter returned from search
- 

**HOW DETECTED**

- 1 Seen from vessel
  - 2 Seen from helicopter
  - 3 Marked with beacon
  - 4 Bird radar
  - 5 Sonar / depth sounder
  - 6 Info. from other vessel
  - 7 Anchored FAD / payao (recorded)
  -
- "Seen from helicopter" Use when vessel gets to the school of tuna that helicopter either: 1. reported on; or 2. dropped buoy on

**SCHOOL ASSOCIATION (tuna)**

- 1 Unassociated
- 2 Feeding on Baitfish } Free schools
- 3 Drifting log, debris or dead animal
- 4 Drifting raft, FAD or payao
- 5 Anchored raft, FAD or payao
- 6 Live whale
- 7 Live whale shark
- 8 Other (please specify)
- 9 No tuna associated

FLOATING OBJECT AND SCHOOL SIGHTINGS	Anchored floating objects (with school)		Free floating objects (no anchor) (with school)		Free schools		DID YOU OBSERVE ANY EVENTS TO RECORD ON FORM GEN-3 TODAY
	Tally	No.	Tally	No.	Tally	No.	
Example N/A							
<b>6</b>							

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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# SPC/FFA REGIONAL PURSE SEINE OBSERVER DAILY LOG

**FORM PS - 2**

REV. MAR., 2014

OBSERVER NAME	VESSEL NAME	OBSERVER TRIP ID NUMBER	PAGE _____ OF _____
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SHIP'S TIME	LATITUDE (dd°mm.mmm')	N S	LONGITUDE (ddd°mm.mmm')	E W	EEZ CODE	ACTIVITY CODE	WIND (kts) (°)	SEA (C-S-M-R-V)	HOW DETECT	SCHOOL ASSOC	COMMENTS (and Set No. - from PS-3)	START OF DAY	
												SHIP'S DATE	SHIP'S TIME
1													
2													
3													
4													
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FLOATING OBJECT AND SCHOOL SIGHTINGS	Anchored floating objects (with NO school)		Free floating objects (no anchor) (with school)		Free schools		DID YOU OBSERVE ANY EVENTS TO RECORD ON FORM GEN-3 TODAY	Journal	pg #
	Tally	No.	Tally	No.	Tally	No.			
Example N/A									

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- 

If FAD involved be sure to fill out a GEN-5 Form - FAD and Floating Object Information Record

**HOW DETECTED**

- 1 Seen from vessel
- 2 Seen from helicopter
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Circle **Yes** if any infringements, as listed on Form GEN-3, were observed.

Write notes on Form GEN-3 and in journal; record the journal page No. on this form. If there was no incident for the day circle **No**.

Page of : Number Form PS-2's through trip as Page 1, Page 2, Page 3, etc.  
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**Use 15R and 15D when vessel retrieves or deploys a buoy set on FAD or log**  
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If using code 16 remember that **transhipment** includes any transfer between vessels

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N.B.: usually a depth sounder or sonar is only used to investigate an already found object or fish, so code "5" should not be used very often. It is usually something else that first causes a vessel to change direction to investigate a school or floating object further.

Anchored FAD - use code 7 only if FAD is found because its position is recorded on chart.

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# SPC/FFA REGIONAL PURSE SEINE OBSERVER DAILY LOG

**FORM PS - 2**

REV. MAR. 2014

OBSERVER NAME	VESSEL NAME	OBSERVER TRIP ID NUMBER	PAGE _____ OF _____
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SHIPS TIME	LATITUDE (dd°mm.mmm')	N S	LONGITUDE (ddd°mm.mmm')	E W	EEZ CODE	ACTIVITY CODE	WIND (kts) (°)	SEA (C-S-M-R-V)	HOW DETECT	SCHOOL ASSOC	COMMENTS (and Set No. - from PS-3)	START OF DAY				
												<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">SHIP'S DATE</td> <td style="width: 50%;">SHIP'S TIME</td> </tr> <tr> <td>UTC DATE</td> <td>UTC TIME</td> </tr> </table>	SHIP'S DATE	SHIP'S TIME	UTC DATE	UTC TIME
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FLOATING OBJECT AND SCHOOL SIGHTINGS	Anchored floating objects (with NO school)	Free floating objects (no anchor) (with school)	Free schools	DID YOU OBSERVE ANY EVENTS TO RECORD ON FORM GEN-3 TODAY	Journal
Example	Tally	Tally	Tally	YES NO (circle one)	pg #
N/A	No.	No.	No.	No.	6

**ALL MUST BE RECORDED**

**ACTIVITY and HELICOPTER CODES**

- 1 Set
- 2 Searching
- 3 Transit
- 4 No fishing - Breakdown
- 5 No fishing - Bad weather
- 6 In port - please specify
- 7 Net cleaning set
- 8 Investigate free school
- 9 Investigate floating object
- 10D Deploy - raft, FAD or payao
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- 15R Retrieve radio buoy
- 15D Deploy radio buoy
- 16 Transhipping or bunkering
- 17 Servicing FAD or floating object
- H1 Helicopter takes off to search
- H2 Helicopter returned from search
- 

If FAD involved be sure to fill out a GEN-5 Form-FAD and Floating Object Information Record

**HOW DETECTED**

- 1 Seen from vessel
- 2 Seen from helicopter
- 3 Marked with beacon
- 4 Bird radar
- 5 Sonar / depth sounder
- 6 Info. from other vessel
- 7 Anchored FAD / payao (recorded)
- 

"Seen from helicopter" Use when vessel gets to the school of tuna that helicopter either:  
1. reported on; or  
2. dropped buoy on

**SCHOOL ASSOCIATION (tuna)**

- 1 Unassociated
- 2 Feeding on Baifish } Free schools
- 3 Drifting log, debris or dead animal
- 4 Drifting raft, FAD or payao
- 5 Anchored raft, FAD or payao
- 6 Live whale
- 7 Live whale shark
- 8 Other (please specify)
- 9 No tuna associated

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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# SPC/FFA REGIONAL PURSE SEINE OBSERVER DAILY LOG

**FORM PS - 2**

REV. MAR., 2014

<b>OBSERVER NAME</b>	<b>VESSEL NAME</b>	<b>OBSERVER TRIP ID NUMBER</b>	<b>PAGE</b> _____ <b>OF</b> _____
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SHIP'S TIME	LATITUDE (dd°mm.mmm')	N S	LONGITUDE (ddd°mm.mmm')	E W	EEZ CODE	ACTIVITY CODE	WIND (kts)	WIND (°)	SEA (C-S-M-R-V)	HOW DETECT	SCHOOL ASSOC	COMMENTS (and Set No. - from PS-3)	START OF DAY	
													SHIP'S DATE	SHIP'S TIME
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- 17 Servicing FAD or floating object
- H1 Helicopter takes off to search
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- 

If FAD involved be sure to fill out a GEN-5 Form - FAD and Floating Object Information Record

**HOW DETECTED.**

- 1 Seen from vessel
- 2 Seen from helicopter
- 3 Marked with beacon
- 4 Bird radar
- 5 Sonar / depth sounder
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- 

"Seen from helicopter" Use when vessel gets to the school of tuna that helicopter either:  
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**SCHOOL ASSOCIATION (tuna)**

- 1 Unassociated
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- 5 Anchored raft, FAD or payao
- 6 Live whale
- 7 Live whale shark
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FLOATING OBJECT AND SCHOOL SIGHTINGS	Anchored floating objects (with NO school)		Free floating objects (no anchor) (with school)		Free floating objects (with NO school)		Free schools		DID YOU OBSERVE ANY EVENTS TO RECORD ON FORM GEN-3 TODAY		
	Tally	No.	Tally	No.	Tally	No.	Tally	No.	YES	NO	
Example N/I											Journal pg. #

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**FORM PS - 2**

REV. MAR. 2014

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- 10R Retrieve - raft, FAD or payao
- 11 No fishing - Drifting at day's end
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- 13 No fishing - Other reason (specify)
- 14 Drifting -With fish aggregating lights
- 15R Retrieve radio buoy
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- 16 Transhipping or bunkering
- 17 Servicing FAD or floating object
- H1 Helicopter takes off to search
- H2 Helicopter returned from search
- 

If FAD involved be sure to fill out a GEN-5 Form - FAD and Floating Object Information Record

**HOW DETECTED**

- 1 Seen from vessel
- 2 Seen from helicopter
- 3 Marked with beacon
- 4 Bird radar
- 5 Sonar / depth sounder
- 6 Info. from other vessel
- 7 Anchored FAD / payao (recorded)
- 

"Seen from helicopter" Use when vessel gets to the school of tuna that helicopter either: 1. reported on; or 2. dropped buoy on

**SCHOOL ASSOCIATION (tuna)**

- 1 Unassociated
- 2 Feeding on Baitfish } Free schools
- 3 Drifting log, debris or dead animal
- 4 Drifting raft, FAD or payao
- 5 Anchored raft, FAD or payao
- 6 Live whale
- 7 Live whale shark
- 8 Other (please specify)
- 9 No tuna associated

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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(for example "05°27.985' S, 152°28.239' W")

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Judge this yourself. A guide is the wind. If it has been blowing awhile then 0-5 kts is calm; 5-10 kts is slight; 10-20 kts is moderate; 20-40 kts is rough; and anything over 40 kts is usually very rough, however not always so.

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Observers should record Ship's time in all other forms and paperwork.

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Use only one code per entry. If it seems that two different codes could be used, record only the most important one and note the other in comments column.

Please record every activity change throughout the day. There may be many. Note that, except for Helicopter codes, the start of a new activity marked by one code also means the end of the activity identified by the previous activity code.

For codes 1, 8, 9 or 17 always use *school association (tuna)* and *how detected* codes, otherwise the school association (tuna) and how detected code fields must be dashed!

**Use 15R and 15D when vessel retrieves or deploys a buoy set on FAD or log**  
- if changing buoys use 15R on one line and 15D on the next.

If using code 16 remember that **transhipment** includes any transfer between vessels Use code 17 if making any repair or change to floating objects other than changing buoys Helicopter codes: Use whenever helicopter takes off or lands. Comment to describe main activity for each take off / landing - e.g.: search, set buoy, visit other (*named*) vessel, arrive from other (*named*) vessel, visit shore, rescue seaman, etc.

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bird radar to finally find the tuna then use code "2" - seen from helicopter.)

N.B.: usually a depth sounder or sonar is only used to investigate an already found object or fish, so code "5" should not be used very often. It is usually something else that first causes a vessel to change direction to investigate a school or floating object further.

Anchored FAD - use code 7 only if FAD is found because its position is recorded on chart.

School Association (tuna): Use "School Association" code that best describes if **tuna** being targetted are with floating object, animal, feeding on baitfish, unassociated.

If it is an unusual **tuna** association comment here and describe in journal.



# SPC/FFA REGIONAL PURSE SEINE OBSERVER DAILY LOG

**FORM PS - 2**

REV. MAR., 2014

OBSERVER NAME		VESSEL NAME		OBSERVER TRIP ID NUMBER		PAGE	OF						
SHIP'S TIME	LATITUDE (dd°mm.mmm')	N S	LONGITUDE (ddd°mm.mmm')	E W	EEZ CODE	ACTIVITY CODE	WIND (kts) (°)	SEA (C-S-M-R-V)	HOW DETECT	SCHOOL ASSOC	COMMENTS (and Set No. - from PS-3)	START OF DAY SHIP'S TIME UTC TIME	
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
FLOATING OBJECT AND SCHOOL SIGHTINGS		Anchored floating objects (with NO school)		Free floating objects (with NO school)		Free floating objects (no anchor) (with school)		Free schools		DID YOU OBSERVE ANY EVENTS TO RECORD ON FORM GEN-3 TODAY		Journal	
Example		Tally		Tally		Tally		Tally		YES		NO	
N/A		No.		No.		No.		No.		(circle one)		pg #	
6													

**ALL MUST BE RECORDED**

**ACTIVITY and HELICOPTER CODES**

- 1 Set
- 2 Searching
- 3 Transit
- 4 No fishing - Breakdown
- 5 No fishing - Bad weather
- 6 In port - please specify
- 7 Net cleaning set
- 8 Investigate free school
- 9 Investigate floating object
- 10D Deploy - raft, FAD or payao
- 10R Retrieve - raft, FAD or payao
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If FAD involved be sure to fill out a GEN-5 Form - FAD and Floating Object Information Record

**HOW DETECTED**

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**SPC/FFA REGIONAL PURSE SEINE OBSERVER  
DAILY LOG**

**FORM PS - 2**

REV. MAR. 2014  
OBSERVER NAME

VESSEL NAME

PAGE

OF

OBSERVER TRIP ID NUMBER

SHIP'S TIME	LATITUDE (dd°mm.mmmm')	N	S	LONGITUDE (ddd°mm.mmmm')	E	W	EEZ CODE	ACTIVITY CODE	WIND (kts)	( ° )	SEA	C-S-M-R-V	HOW DETECT	SCHOOL ASSOC	COMMENTS (and Set No. - from PS-3)
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															

FLOATING OBJECT AND SCHOOL SIGHTINGS	Example N/I	Anchored floating objects (with NO school)		Free floating objects (no anchor) (with school)		Free schools		DID YOU OBSERVE ANY EVENTS TO RECORD ON FORM GEN-3 TODAY	
		Tally	No.	Tally	No.	Tally	No.	YES	NO
									Journal pg #

- ALL MUST BE RECORDED**
- ACTIVITY and HELICOPTER CODES.**
- 1 Set If FAD involved be sure to fill out a GEN-5 Form - FAD and Floating Object Information Record
  - 2 Searching
  - 3 Transit
  - 4 No fishing - Breakdown weather
  - 5 No fishing - Bad weather
  - 6 In port - please specify
  - 7 Net cleaning set
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  - 10D Deploy - raft, FAD or payao
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- SCHOOL ASSOCIATION (tuna)**
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  - 3 Drifting log, debris or dead animal
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  - 5 Anchored raft, FAD or payao
  - 6 Live whale
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  - 8 Other (please specify)
  - 9 No tuna associated
- "Seen from helicopter"**  
Use when vessel gets to the school of tuna that helicopter either:  
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# SPC/FFA REGIONAL PURSE SEINE OBSERVER DAILY LOG

## FORM PS - 2

REV. MAR. 2014

OBSERVER NAME	VESSEL NAME	OBSERVER TRIP ID NUMBER	PAGE	OF
---------------	-------------	-------------------------	------	----

SHIP'S TIME	LATITUDE (dd°mm.mmm')	N S	LONGITUDE (ddd°mm.mmm')	E W	EEZ CODE	ACTIVITY CODE	WIND (kts)	WIND (°)	SEA C-S-M-R-V	HOW DETECT	SCHOOL ASSOC	COMMENTS (and Set No. - from PS-3)
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2												
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5												
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9												
10												
11												
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	Tally	No.	Tally	No.	Tally	No.	
Example <i>NI</i>							

### ALL MUST BE RECORDED

#### ACTIVITY and HELICOPTER CODES

- 1 Set
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- 3 Transit
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Tally: Mark with a stroke every time you sight something (see example on front)

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For codes 1, 8, 9 or 17 always use *school association (tuna)* and *how detected* codes, otherwise the school association (tuna) and how detected code fields must be dashed!

**Use 15R and 15D when vessel retrieves or deploys a buoy set on FAD or log**

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# SPC/FFA REGIONAL PURSE SEINE OBSERVER DAILY LOG

## FORM PS - 2

REV. MAR. 2014

OBSERVER NAME		VESSEL NAME		OBSERVER TRIP ID NUMBER										PAGE	OF
SHIP'S TIME	LATITUDE (dd°mm.mmmm')	N S	LONGITUDE (ddd°mm.mmmm')	E W	EEZ CODE	ACTIVITY CODE	WIND (kts) (°)	SEA (C-S-M-R-V)	HOW DETECT	SCHOOL ASSOC	COMMENTS (and Set No. - from PS-3)	SHIP'S DATE	SHIP'S TIME	START OF DAY UTC DATE      UTC TIME	
1															
2															
3															
4															
5															
6															
7															
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19															
20															
21															
22															
23															

**ALL MUST BE RECORDED**

**ACTIVITY and HELICOPTER CODES.**

- 1 Set If FAD involved be sure to fill out a GEN-5 Form - FAD and Floating Object Information Record
- 2 Searching
- 3 Transit
- 4 No fishing - Breakdown weather
- 5 No fishing - Bad weather
- 6 In port - please specify
- 7 Net cleaning set
- 8 Investigate free school
- 9 Investigate floating object
- 10 Deploy - raft, FAD or payao
- 10R Retrieve - raft, FAD or payao
- 11 No fishing - Drifting at day's end
- 12 No fishing - Drifting with floating object
- 13 No fishing - Other reason (specify)
- 14 Drifting - With fish aggregating lights
- 15R Retrieve radio buoy
- 15D Deploy radio buoy
- 16 Transhipping or bunkering
- 17 Servicing FAD or floating object
- H1 Helicopter takes off to search
- H2 Helicopter returned from search
- 

**HOW DETECTED.**

- 1 Seen from vessel
  - 2 Seen from helicopter
  - 3 Marked with beacon
  - 4 Bird radar
  - 5 Sonar / depth sounder
  - 6 Info. from other vessel
  - 7 Anchored FAD / payao (recorded)
  -
- "Seen from helicopter"  
Use when vessel gets to the school of tuna that helicopter either:  
1. reported on; or  
2. dropped buoy on

**SCHOOL ASSOCIATION (tuna)**

- 1 Unassociated
- 2 Feeding on Baifish } Free schools
- 3 Drifting log, debris or dead animal
- 4 Drifting raft, FAD or payao
- 5 Anchored raft, FAD or payao
- 6 Live whale
- 7 Live whale shark
- 8 Other (please specify)
- 9 No tuna associated

FLOATING OBJECT AND SCHOOL SIGHTINGS	Anchored floating objects (with NO school)		Free floating objects (no anchor) (with school)		Free schools	
	Tally	(with NO school)	Tally	(with school)	Tally	(with school)
Example N/I	No.		No.		No.	
6						

**DID YOU OBSERVE ANY EVENTS TO RECORD ON FORM GEN-3 TODAY**

**Journal**

YES NO  
(circle one) pg #



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 Masa, on his 3rd trip in 1996 may get Trip ID No.: "JHM 96-03").

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**SPC/FFA REGIONAL PURSE SEINE OBSERVER  
DAILY LOG**

**FORM PS - 2**

REV. MAR. 2014

OBSERVER NAME		VESSEL NAME		OBSERVER TRIP ID NUMBER				PAGE _____ OF _____			
SHIP'S TIME	LATITUDE (dd°mm.mmm')	N S	LONGITUDE (ddd°mm.mmm')	E W	EEZ CODE	ACTIVITY CODE	WIND (kts) (°)	SEA (C-S-M-R-V)	HOW DETECT	SCHOOL ASSOC	COMMENTS (and Set No. - from PS-3)
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
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20											
21											
22											
23											

FLOATING OBJECT AND SCHOOL SIGHTINGS	Anchored floating objects (with NO school)	Free floating objects (no anchor) (with school)	Free schools	DID YOU OBSERVE ANY EVENTS TO RECORD ON FORM GEN-3 TODAY
Example N/I	Tally No.	Tally No.	Tally No.	<b>Journal</b> YES NO (circle one) pg #

**ALL MUST BE RECORDED**

**ACTIVITY and HELICOPTER CODES**

- 1 Set  
if FAD involved be sure to fill out a GEN-5 Form - FAD and Floating Object Information Record
- 2 Searching
- 3 Transit
- 4 No fishing - Breakdown
- 5 No fishing - Bad weather
- 6 In port - please specify
- 7 Net cleaning set
- 8 Investigate free school
- 9 Investigate floating object
- 10 Deploy - raft, FAD or payao
- 10R Retrieve - raft, FAD or payao
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- 13 No fishing - Other reason (specify)
- 14 Drifting - With fish aggregating lights
- 15R Retrieve radio buoy
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- H1 Helicopter takes off to search
- H2 Helicopter returned from search
- 

**HOW DETECTED**

- 1 Seen from vessel
  - 2 Seen from helicopter
  - 3 Marked with beacon
  - 4 Bird radar
  - 5 Sonar / depth sounder
  - 6 Info. from other vessel
  - 7 Anchored FAD / payao (recorded)
  -
- "Seen from helicopter"  
Use when vessel gets to the school of tuna that helicopter either:  
1. reported on; or  
2. dropped buoy on

**SCHOOL ASSOCIATION (tuna)**

- 1 Unassociated } Free schools
- 2 Feeding on Baifish }
- 3 Drifting log, debris or dead animal
- 4 Drifting raft, FAD or payao
- 5 Anchored raft, FAD or payao
- 6 Live whale
- 7 Live whale shark
- 8 Other (please specify)
- 9 No tuna associated



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# SPC/FFA REGIONAL PURSE SEINE OBSERVER

# FORM PS - 2

## DAILY LOG

REV. MAR. 2014

OBSERVER NAME		VESSEL NAME				OBSERVER TRIP ID NUMBER					PAGE	OF
SHIP'S TIME	LATITUDE (dd°mm.mmm')	N S	LONGITUDE (ddd°mm.mmm')	E W	EEZ CODE	ACTIVITY CODE	WIND (kts) (°)	SEA C-S-M-R-V	HOW DETECT	SCHOOL ASSOC	COMMENTS (and Set No. - from PS-3)	
<b>ALL MUST BE RECORDED</b>												
1												
2												
3												
4												
5												
6												
7												
8												
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10												
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23												

FLOATING OBJECT AND SCHOOL SIGHTINGS	Anchored floating objects (with NO school)	Free floating objects (no anchor) (with school)	Free schools	DID YOU OBSERVE ANY EVENTS TO RECORD ON FORM GEN-3 TODAY	Journal pg #
Example	Tally	Tally	Tally	YES NO (circle one)	pg #
N/A	No	No	No		
<b>6</b>					

ACTIVITY and HELICOPTER CODES		
1	Set	If FAD involved be sure to fill out a GEN-5 Form - FAD and Floating Object Information Record
2	Searching	
3	Transit	
4	No fishing - Breakdown	
5	No fishing - Bad weather	
6	In port - please specify	
7	Net cleaning set	
8	Investigate free school	
9	Investigate floating object	
10D	Deploy - raft, FAD or payao	
10R	Retrieve - raft, FAD or payao	
11	No fishing - Drifting at day's end	
12	No fishing - Drifting with floating object	
13	No fishing - Other reason (specify)	
14	Drifting - With fish aggregating lights	
15R	Retrieve radio buoy	
15D	Deploy radio buoy	Changing buoys?
16	Transshipping or bunkering	- use first line for 15R and next for 15D
17	Servicing FAD or floating object	
H1	Helicopter takes off to search	
H2	Helicopter returned from search	
---		
HOW DETECTED		
1	Seen from vessel	
2	Seen from helicopter	"Seen from helicopter" Use when vessel gets to the school of tuna that helicopter either: 1. reported on; or 2. dropped buoy on
3	Marked with beacon	
4	Bird radar	
5	Sonar / depth sounder	
6	Info. from other vessel	
7	Anchored FAD / payao (recorded)	
---		
SCHOOL ASSOCIATION (tuna)		
1	Unassociated	}
2	Feeding on Batfish	
3	Drifting log, debris or dead animal	}
4	Drifting raft, FAD or payao	
5	Anchored raft, FAD or payao	}
6	Live whale	
7	Live whale shark	}
8	Other (please specify)	
9	No tuna associated	



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 Masa, on his 3rd trip in 1996 may get Trip ID No.: "JHM 96-03").

Ships Time: Record the "Ship's time" whenever there is a change of an activity. Be sure to record all activities. Record as often as necessary during the day. At the very least, record a morning, noon and evening position when in transit.

Latitude, Longitude, N, S, E, W: Record position as degrees, minutes and minutes to three decimal places, which is usually as it is displayed on a GPS. N.B.: dd = degrees; mm = minutes; mmm = decimal minutes.

For latitude below 10° put a zero in front of the number (e.g.: write 5° as 05°). Never forget to enter north or south and east or west correctly  
(for example "05°27.985' S, 152°28.239' W")

EEZ Code: Place the code for the EEZ (on back of Form GEN-6) for your position. Use the chart supplied or the chart of the vessel to work this out.

If you are not sure then put the code for the EEZ where you think you are.

Wind (kts) (°): Record speed in knots and direction in degrees of the compass (e.g. for a 15 knot easterly wind, under (kts) print "15" and under (°) print "090") If the wind meter shows metres per second then (kts = 2 x m/sec) approximately.

Sea conditions (C-S-M-R-V).

C = Calm; S = Slight; M = Moderate; R = Rough; V = Very rough.

Judge this yourself. A guide is the wind. If it has been blowing awhile then 0-5 kts is calm; 5-10 kts is slight; 10-20 kts is moderate; 20-40 kts is rough; and anything over 40 kts is usually very rough, however not always so.

Comments (and Set No. - from PS-3) - for all activity code "1" write the set No. before their comments in this field. Get "set No." from the PS-3 that must be used every set.

Floating object and school sightings: Through each day try to keep count of every floating objects and free schools. Try to note if floating objects have fish with them or not.

Also count anchored floating objects (FADs or payaos) and note if they have fish. Note that free schools can be feeding on baitfish or completely unassociated.

This can be a rough but sensible count. It is used to get an idea of life in your area. **Floating objects** can include trees, logs, drums, FADs, payaos or other lumps of debris.

Tally: Mark with a stroke every time you sight something (see example on front)

No : Count the "tally" strokes at end of day to get the number of each type of sighting.

Did You Observe Any Events To Record On Form GEN-3 Today ?

Circle **Yes** if any infringements, as listed on Form GEN-3, were observed.

Write notes on Form GEN-3 and in journal; record the journal page No. on this form. If there was no incident for the day circle **No**.

Page of: Number Form PS-2's through trip as Page 1, Page 2, Page 3, etc.  
**At end of trip** check pages are all there (again). Put last page number on every page (e.g. if there are 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").

**Start of day**: At start of each day, date and time on ship's clock (and observer's watch) must be matched to the UTC time and date as read from the GPS. **\*\*Always record date as YY/MM/DD.**

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**Record Ship's date and time and UTC date and time at same moment each day.** N.B.: UTC date is sometimes different from Ship's date.

Observers should record Ship's time in all other forms and paperwork.

Activity and Helicopter Codes: The activity codes are shown on the front.

Use only one code per entry. If it seems that two different codes could be used, record only the most important one and note the other in comments column.

Please record every activity change throughout the day. There may be many. Note that, except for Helicopter codes, the start of a new activity marked by one code also means the end of the activity identified by the previous activity code.

For codes 1, 8, 9 or 17 always use *school association (tuna)* and *how detected* codes, otherwise the school association (tuna) and how detected code fields must be dashed !

**Use 15R and 15D when vessel retrieves or deploys a buoy set on FAD or log**  
- if changing buoys use 15R on one line and 15D on the next.

If using code 16 remember that **transhipment** includes any transfer between vessels Use code 17 if making any repair or change to floating objects other than changing buoys Helicopter codes: Use whenever helicopter takes off or lands. Comment to describe main activity for each take off / landing - e.g.: search, set buoy, visit other (*named*) vessel, arrive from other (*named*) vessel, visit shore, rescue seaman, etc.

How Detected: Use this code to best show how investigated tuna or object was found.

If more than one method used, use code that shows what **first** made vessel change course to inspect tuna or object (E.g.: If helicopter reports tuna so vessel turns toward its position but had to use its

bird radar to finally find the tuna then use code "2" - seen from helicopter.)

N.B.: usually a depth sounder or sonar is only used to investigate an already found object or fish, so code "5" should not be used very often. It is usually something else that first causes a vessel to change direction to investigate a school or floating object further.

Anchored FAD - use code 7 only if FAD is found because its position is recorded on chart.

School Association (tuna): Use "School Association" code that best describes if **tuna** being targetted are with floating object, animal, feeding on baitfish, unassociated.

If it is an unusual **tuna** association comment here and describe in journal.



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Use only one code per entry. If it seems that two different codes could be used,

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Please record every activity change throughout the day. There may be many. Note that, except for Helicopter codes, the start of a new activity marked by one

code also means the end of the activity identified by the previous activity code.

For codes 1, 8, 9 or 17 always use *school association (tuna)* and *how detected*

codes, otherwise the school association (tuna) and how detected code fields must be dashed!

**Use 15R and 15D when vessel retrieves or deploys a buoy set on FAD or log**

- if changing buoys use 15R on one line and 15D on the next.

If using code 16 remember that **transhipment** includes any transfer between vessels

Use code 17 if making any repair or change to floating objects other than changing

buoys Helicopter codes: Use whenever helicopter takes off or lands. Comment to

describe main activity for each take off / landing - e.g.: search, set buoy, visit other

(*named*) vessel, arrive from other (*named*) vessel, visit shore, rescue seaman, etc.

How Detected: Use this code to best show how investigated tuna or object was found.

If more than one method used, use code that shows what **first** made vessel

change course to inspect tuna or object (E.g.: If helicopter reports tuna so vessel

turns toward its position but had to use its

bird radar to finally find the tuna then use code "2" - seen from helicopter.)

N.B.: usually a depth sounder or sonar is only used to investigate an already found

object or fish, so code "5" should not be used very often. It is usually something else

that first causes a vessel to change direction to investigate a school or floating object

further.

Anchored FAD - use code 7 only if FAD is found because its position is recorded on

chart.

School Association (tuna): Use "School Association" code that best describes if

**tuna** being targetted are with floating object, animal, feeding on baitfish,

unassociated.

If it is an unusual **tuna** association comment here and describe in journal.

**SPC/FFA REGIONAL PURSE SEINE OBSERVER  
DAILY LOG**

**FORM PS - 2**

REV. MAR., 2014

OBSERVER NAME			VESSEL NAME			OBSERVER TRIP ID NUMBER			PAGE	OF		
SHIP'S TIME	LATITUDE (dd°mm.mmm')	N S	LONGITUDE (ddd°mm.mmm')	E W	EEZ CODE	ACTIVITY CODE	WIND (kts)	WIND (°)	SEA C-S-M-R-V	HOW DETECT	SCHOOL ASSOC	COMMENTS (and Set No. - from PS-3)
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
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21												
22												
23												
FLOATING OBJECT AND SCHOOL SIGHTINGS		Anchored floating objects (with NO school)		Free floating objects (no anchor) (with school)		Free floating objects (with NO school)		Free schools		DID YOU OBSERVE ANY EVENTS TO RECORD ON FORM GEN-3 TODAY		
Example		Tally		Tally		Tally		Tally		Journal		
N/A		No.		No.		No.		No.		YES NO (circle one) pg #		

**START OF DAY**

SHIP'S DATE	SHIP'S TIME
UTC DATE	UTC TIME

**ALL MUST BE RECORDED**

**ACTIVITY and HELICOPTER CODES**

1 Set	If FAD involved be sure to fill out a GEN-5 Form-FAD and Floating Object Information Record
2 Searching	
3 T-ransit	
4 No fishing - Breakdown	
5 No fishing - Bad weather	
6 In port - please specify	
7 Net cleaning set	
8 Investigate free school	
9 Investigate floating object	
10D Deploy - raft, FAD or payao	
10R Retrieve - raft, FAD or payao	
11 No fishing - Drifting at day's end	
12 No fishing - Drifting with floating object	
13 No fishing - Other reason (specify)	
14 Drifting -With fish aggregating lights	
15R Retrieve radio buoy	
15D Deploy radio buoy	
16 T-ranshipping or bunkering	
17 Servicing FAD or floating object	
H1 Helicopter takes off to search	
H2 Helicopter returned from search	
---	

**HOW DETECTED.**

1 Seen from vessel	"Seen from helicopter"
2 Seen from helicopter	Use when vessel gets to the school of tuna that helicopter either:
3 Marked with beacon	1. reported on; or
4 Bird radar	2. dropped buoy on
5 Sonar /depth sounder	
6 Info. from other vessel	
7 Anchored FAD /payao (recorded)	
---	

**SCHOOL ASSOCIATION (tuna)**

1 Unassociated	} Free schools
2 Feeding on Baitfish	
3 Drifting log, debris or dead animal	
4 Drifting raft, FAD or payao	
5 Anchored raft, FAD or payao	
6 Live whale	
7 Live whale shark	
8 Other (please specify)	
9 No tuna associated	

6



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 Masa, on his 3rd trip in 1996 may get Trip ID No.: "JHM 96-03").

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School Association (tuna): Use "School Association" code that best describes if

**tuna** being targeted are with floating object, animal, feeding on baitfish, unassociated.

If it is an unusual **tuna** association comment here and describe in journal.



# SPC/FFA REGIONAL PURSE SEINE OBSERVER DAILY LOG

**FORM PS - 2**

REV. MAR. 2014

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													UTC DATE	UTC TIME		
1																
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**ALL MUST BE RECORDED**

**ACTIVITY and HELICOPTER CODES**

- 1 Set if FAD involved be sure to fill out a GEN-5 Form-FAD and Floating Object Information Record
- 2 Searching
- 3 Transit
- 4 No fishing - Breakdown
- 5 No fishing - Bad weather
- 6 In port - please specify
- 7 Net cleaning set
- 8 Investigate free school
- 9 Investigate floating object
- 10D Deploy - raft, FAD or payao
- 10R Retrieve - raft, FAD or payao
- 11 No fishing - Drifting at day's end
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- 16 Transhipping or bunkering
- 17 Servicing FAD or floating object
- H1 Helicopter takes off to search
- H2 Helicopter returned from search
- 

**HOW DETECTED**

- 1 Seen from vessel
  - 2 Seen from helicopter
  - 3 Marked with beacon
  - 4 Bird radar
  - 5 Sonar / depth sounder
  - 6 Info. from other vessel
  - 7 Anchored FAD / payao (recorded)
  -
- "Seen from helicopter"  
Use when vessel gets to the school of tuna that helicopter either:  
1. reported on; or  
2. dropped buoy on

**SCHOOL ASSOCIATION (tuna)**

- 1 Unassociated
- 2 Feeding on Baifish } Free schools
- 3 Drifting log, debris or dead animal
- 4 Drifting raft, FAD or payao
- 5 Anchored raft, FAD or payao
- 6 Live whale
- 7 Live whale shark
- 8 Other (please specify)
- 9 No tuna associated

FLOATING OBJECT AND SCHOOL SIGHTINGS	Anchored floating objects (with school )		Free floating objects (no anchor) (with school)		Free schools		DID YOU OBSERVE ANY EVENTS TO RECORD ON FORM GEN-3 TODAY
	Tally	No.	Tally	No.	Tally	No.	
Example N/A							YES NO (circle one) pg #
<b>6</b>							

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No: Count the "tally" strokes at end of day to get the number of each type of sighting.

Did You Observe Any Events To Record On Form GEN-3 Today?  
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Page of: Number Form PS-2's through trip as Page 1, Page 2, Page 3, etc.  
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- if changing buoys use 15R on one line and 15D on the next.  
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Anchored FAD - use code 7 only if FAD is found because its position is recorded on chart.

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# SPC/FFA REGIONAL PURSE SEINE OBSERVER DAILY LOG

**FORM PS - 2**

REV. MAR. 2014

OBSERVER NAME		VESSEL NAME		OBSERVER TRIP ID NUMBER		PAGE	OF				
SHIPS TIME	LATITUDE (dd°mm.mmm')	N S	LONGITUDE (ddd°mm.mmm')	E W	EEZ CODE	ACTIVITY CODE	WIND (kts) (°)	SEA (C-S-M-R-V)	HOW DETECT	SCHOOL ASSOC	COMMENTS (and Set No. - from PS-3)
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2											
3											
4											
5											
6											
7											
8											
9											
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22											
23											

START OF DAY	
SHIP's DATE	SHIP's TIME
UTC DATE	UTC TIME

**ALL MUST BE RECORDED**

**ACTIVITY and HELICOPTER CODES**

- 1 Set
- 2 Searching
- 3 Transit
- 4 No fishing - Breakdown
- 5 No fishing - Bad weather
- 6 In port - please specify
- 7 Net cleaning set
- 8 Investigate free school
- 9 Investigate floating object
- 10D Deploy - raft, FAD or payao
- 10R Retrieve - raft, FAD or payao
- 11 No fishing - Drifting at day's end
- 12 No fishing - Drifting with floating object
- 13 No fishing - Other reason (specify)
- 14 Drifting -With fish aggregating lights
- 15R Retrieve radio buoy
- 15D Deploy radio buoy
- 16 Transhipping or bunkering
- 17 Servicing FAD or floating object
- H1 Helicopter takes off to search
- H2 Helicopter returned from search
- 

If FAD involved be sure to fill out a GEN-5 Form - FAD and Floating Object Information Record

Changing buoys ?  
- use first line for 15R and next for 15D

**HOW DETECTED**

- 1 Seen from vessel
- 2 Seen from helicopter
- 3 Marked with beacon
- 4 Bird radar
- 5 Sonar / depth sounder
- 6 Info. from other vessel
- 7 Anchored FAD / payao (recorded)
- 

"Seen from helicopter" Use when vessel gets to the school of tuna that helicopter either: 1. reported on; or 2. dropped buoy on

**SCHOOL ASSOCIATION (tuna)**

- 1 Unassociated
- 2 Feeding on Baitfish } Free schools
- 3 Drifting log, debris or dead animal
- 4 Drifting raft, FAD or payao
- 5 Anchored raft, FAD or payao
- 6 Live whale
- 7 Live whale shark
- 8 Other (please specify)
- 9 No tuna associated

FLOATING OBJECT AND SCHOOL SIGHTINGS	Anchored floating objects (with school )		Free floating objects (no anchor) (with school)		Free schools		DID YOU OBSERVE ANY EVENTS TO RECORD ON FORM GEN-3 TODAY	
	Tally	No.	Tally	No.	Tally	No.		Journal
Example							YES NO (circle one)	pg #
N/A								6

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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# SPC/FFA REGIONAL PURSE SEINE OBSERVER DAILY LOG

## FORM PS - 2

REV. MAR. 2014

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23											

SHIP'S DATE	SHIP'S TIME	UTC DATE	UTC TIME	START OF DAY

**ALL MUST BE RECORDED**

**ACTIVITY and HELICOPTER CODES**

1	Set	
2	Searching	
3	Transit	
4	No fishing - Breakdown	
5	No fishing - Bad weather	
6	In port - please specify	
7	Net cleaning set	
8	Investigate free school	
9	Investigate floating object	
10D	Deploy - raft, FAD or payao	
10R	Retrieve - raft, FAD or payao	
11	No fishing - Drifting at day's end	
12	No fishing - Drifting with floating object	
13	No fishing - Other reason (specify)	
14	Drifting - With fish aggregating lights	
15R	Retrieve radio buoy	
15D	Deploy radio buoy	
16	Transhipping or bunkering	
17	Servicing FAD or floating object	
H1	Helicopter takes off to search	
H2	Helicopter returned from search	
---		

If FAD involved be sure to fill out a GEN-5 Form - FAD and Floating Object Information Record

**HOW DETECTED**

1	Seen from vessel	
2	Seen from helicopter	
3	Marked with beacon	
4	Bird radar	
5	Sonar / depth sounder	
6	Info. from other vessel	
7	Anchored FAD / payao (recorded)	
---		

"Seen from helicopter" Use when vessel gets to the school of tuna that helicopter either:  
 1. reported on; or  
 2. dropped buoy on

**SCHOOL ASSOCIATION (tuna)**

1	Unassociated	
2	Feeding on Batfish	
3	Drifting log, debris or dead animal	
4	Drifting raft, FAD or payao	
5	Anchored raft, FAD or payao	
6	Live whale	
7	Live whale shark	
8	Other (please specify)	
9	No tuna associated	

} Free schools

FLOATING OBJECT AND SCHOOL SIGHTINGS	Anchored floating objects (with NO school)		Free floating objects (no anchor) (with school)		Free floating objects (with NO school)		Free schools	
	Tally	No.	Tally	No.	Tally	No.	Tally	No.
Example								
N/A								

DID YOU OBSERVE ANY EVENTS TO RECORD ON FORM GEN-3 TODAY	Journal	pg #

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## FORM PS - 2

REV. MAR. 2014

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FLOATING OBJECT AND SCHOOL SIGHTINGS	Anchored floating objects (with NO school)	Free floating objects (no anchor) (with school)	Free schools	DID YOU OBSERVE ANY EVENTS TO RECORD ON FORM GEN-3 TODAY
Example	Tally	Tally	Tally	YES NO Journal
N/A	No.	No.	No.	pg #
	No.	No.	No.	

**ALL MUST BE RECORDED**

**ACTIVITY and HELICOPTER CODES**

- 1 Set
- 2 Searching
- 3 Transit
- 4 No fishing - Breakdown
- 5 No fishing - Bad weather
- 6 In port - please specify
- 7 Net cleaning set
- 8 Investigate free school
- 9 Investigate floating object
- 10D Deploy - raft, FAD or payao
- 10R Retrieve - raft, FAD or payao
- 11 No fishing - Drifting at day's end
- 12 No fishing - Drifting with floating object
- 13 No fishing - Other reason (specify)
- 14 Drifting - With fish aggregating lights
- 15R Retrieve radio buoy
- 15D Deploy radio buoy
- 16 Transhipping or bunkering
- 17 Servicing FAD or floating object
- H1 Helicopter takes off to search
- H2 Helicopter returned from search
- 

**HOW DETECTED**

- 1 Seen from vessel
- 2 Seen from helicopter
- 3 Marked with beacon
- 4 Bird radar
- 5 Sonar / depth sounder
- 6 Info. from other vessel
- 7 Anchored FAD / payao (recorded)
- 

**SCHOOL ASSOCIATION (tuna)**

- 1 Unassociated
- 2 Feeding on Batfish
- 3 Drifting log, debris or dead animal
- 4 Drifting raft, FAD or payao
- 5 Anchored raft, FAD or payao
- 6 Live whale
- 7 Live whale shark
- 8 Other (please specify)
- 9 No tuna associated

If FAD involved be sure to fill out a GEN-5 Form - FAD and Floating Object Information Record

Changing buoys? - use first line for 15R and next for 15D

"Seen from helicopter" Use when vessel gets to the school of tuna that helicopter either:  
1. reported on; or  
2. dropped buoy on



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 Masa, on his 3rd trip in 1996 may get Trip ID No.: "JHM 96-03").

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C = Calm; S = Slight; M = Moderate; R = Rough; V = Very rough.

Judge this yourself. A guide is the wind. If it has been blowing awhile then 0-5 kts is calm; 5-10 kts is slight; 10-20 kts is moderate; 20-40 kts is rough; and anything over 40 kts is usually very rough, however not always so.

Comments (and Set No. - from PS-3) - for all activity code "1" write the set No. before their comments in this field. Get "set No." from the PS-3 that must be used every set.

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Tally: Mark with a stroke every time you sight something (see example on front)

No : Count the "tally" strokes at end of day to get the number of each type of sighting.

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Please record every activity change throughout the day. There may be many. Note that, except for Helicopter codes, the start of a new activity marked by one code also means the end of the activity identified by the previous activity code.

For codes 1, 8, 9 or 17 always use *school association (tuna)* and *how detected* codes, otherwise the school association (tuna) and how detected code fields must be dashed !

**Use 15R and 15D when vessel retrieves or deploys a buoy set on FAD or log**

- if changing buoys use 15R on one line and 15D on the next.

If using **code 16** remember that **transhipment** includes any transfer between vessels

Use **code 17** if making any repair or change to floating objects other than changing buoys Helicopter codes: Use whenever helicopter takes off or lands. Comment to describe main activity for each take off / landing - e.g.: search, set buoy, visit other (*named*) vessel, arrive from other (*named*) vessel, visit shore, rescue seaman, etc.

How Detected: Use this code to best show how investigated tuna or object was found.

If more than one method used, use code that shows what **first** made vessel change course to inspect tuna or object (E.g.: If helicopter reports tuna so vessel turns toward its position but had to use its

bird radar to finally find the tuna then use code "2" - seen from helicopter.)

N.B.: usually a depth sounder or sonar is only used to investigate an already found object or fish, so code "5" should not be used very often. It is usually something else that first causes a vessel to change direction to investigate a school or floating object further.

Anchored FAD - use code 7 only if FAD is found because its position is recorded on chart.

School Association (tuna): Use "School Association" code that best describes if

**tuna** being targetted are with floating object, animal, feeding on baitfish, unassociated.

If it is an unusual **tuna** association comment here and describe in journal.



# SPC/FFA REGIONAL PURSE SEINE OBSERVER DAILY LOG

**FORM PS - 2**

REV. MAR. 2014

OBSERVER NAME		VESSEL NAME		OBSERVER TRIP ID NUMBER		PAGE		OF			
SHIP'S TIME	LATITUDE (dd°mm.mmm')	N S	LONGITUDE (ddd°mm.mmm')	E W	EEZ CODE	ACTIVITY CODE	WIND (kts) (°)	SEA (C-S-M-R-V)	HOW DETECT	SCHOOL ASSOC	COMMENTS (and Set No. - from PS-3)
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
FLOATING OBJECT AND SCHOOL SIGHTINGS		Anchored floating objects (with NO school)		Free floating objects (no anchor) (with school)		Free floating objects (with NO school)		Free schools		DID YOU OBSERVE ANY EVENTS TO RECORD ON FORM GEN-3 TODAY	
Example		Tally		Tally		Tally		Tally		Journal	
		No.		No.		No.		No.		YES NO (circle one) pg #	

6

START OF DAY	
SHIP'S DATE	SHIP'S TIME
UTC DATE	UTC TIME

**ALL MUST BE RECORDED**

- ACTIVITY and HELICOPTER CODES.**
- 1 Set If FAD involved be sure to fill out a GEN-5 Form - FAD and Floating Object Information Record
  - 2 Searching
  - 3 Transit
  - 4 No fishing - Breakdown
  - 5 No fishing - Bad weather
  - 6 In port - please specify
  - 7 Net cleaning set
  - 8 Investigate free school
  - 9 Investigate floating object
  - 10D Deploy - raft, FAD or payao
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**HOW DETECTED**

- 1 Seen from vessel
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  - 3 Marked with beacon
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  -
- "Seen from helicopter" Use when vessel gets to the school of tuna that helicopter either:  
1. reported on; or  
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**SCHOOL ASSOCIATION (tuna)**

- 1 Unassociated
- 2 Feeding on Baifish } Free schools
- 3 Drifting log, debris or dead animal
- 4 Drifting raft, FAD or payao
- 5 Anchored raft, FAD or payao
- 6 Live whale
- 7 Live whale shark
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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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# SPC/FFA REGIONAL PURSE SEINE OBSERVER DAILY LOG

## FORM PS - 2

REV. MAR., 2014

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<b>ALL MUST BE RECORDED</b>											
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If FAD involved be sure to fill out a GEN- 5 Form - FAD and Floating Object Information Record											
<b>HOW DETECTED</b>											
1 Seen from vessel 2 Seen from helicopter 3 Marked with beacon 4 Bird radar 5 Sonar /depth sounder 6 Info. from other vessel 7 Anchored FAD /payao (recorded) ---											
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For codes 1, 8, 9 or 17 always use *school association (tuna)* and *how detected* codes, otherwise the school association (tuna) and how detected code fields must be dashed!

**Use 15R and 15D when vessel retrieves or deploys a buoy set on FAD or log** - if changing buoys use 15R on one line and 15D on the next.

If using code 16 remember that **transhipment** includes any transfer between vessels Use code 17 if making any repair or change to floating objects other than changing buoys Helicopter codes: Use whenever helicopter takes off or lands. Comment to describe main activity for each take off / landing - e.g.: search, set buoy, visit other (*named*) vessel, arrive from other (*named*) vessel, visit shore, rescue seaman, etc.

How Detected: Use this code to best show how investigated tuna or object was found.

If more than one method used, use code that shows what **first** made vessel

change course to inspect tuna or object (E.g.: If helicopter reports tuna so vessel turns toward its position but had to use its

bird radar to finally find the tuna then use code "2" - seen from helicopter.)

N.B.: usually a depth sounder or sonar is only used to investigate an already found object or fish, so code "5" should not be used very often. It is usually something else that first causes a vessel to change direction to investigate a school or floating object further.

Anchored FAD - use code 7 only if FAD is found because its position is recorded on chart.

School Association (tuna): Use "School Association" code that best describes if

**tuna** being targetted are with floating object, animal, feeding on baitfish, unassociated.

If it is an unusual **tuna** association comment here and describe in journal.

**SPC/FFA REGIONAL PURSE SEINE OBSERVER  
DAILY LOG**

**FORM PS - 2**

REV. MAR. 2014

<b>OBSERVER NAME</b>	<b>VESSEL NAME</b>		<b>OBSERVER TRIP ID NUMBER</b>										<b>PAGE</b>	<b>OF</b>		
<b>SHIP'S TIME</b>	<b>LATITUDE</b> (dd°mm.mmm')	<b>N S</b>	<b>LONGITUDE</b> (ddd°mm.mmm')	<b>E W</b>	<b>EEZ CODE</b>	<b>ACTIVITY CODE</b>	<b>WIND</b> (kts) ( ° )	<b>SEA</b> C-S-M-R-V	<b>HOW DETECT</b>	<b>SCHOOL ASSOC</b>	<b>COMMENTS</b> (and <b>Set No.</b> - from PS-3)		<b>SHIP'S DATE</b>	<b>SHIP'S TIME</b>	<b>START OF DAY</b>	
1																
2																
3																
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23																

**ALL MUST BE RECORDED**

**ACTIVITY and HELICOPTER CODES**

- 1 Set
  - 2 Searching
  - 3 Transit
  - 4 No fishing - Breakdown
  - 5 No fishing - Bad weather
  - 6 In port - please specify
  - 7 Net cleaning set
  - 8 Investigate free school
  - 9 Investigate floating object
  - 10D Deploy - raft, FAD or payao
  - 10R Retrieve - raft, FAD or payao
  - 11 No fishing - Drifting at day's end
  - 12 No fishing - Drifting with floating object
  - 13 No fishing - Other reason (specify)
  - 14 Drifting -With fish aggregating lights
  - 15R Retrieve radio buoy
  - 15D Deploy radio buoy
  - 16 Transhipping or bunkering
  - 17 Servicing FAD or floating object
- H1 Helicopter takes off to search  
H2 Helicopter returned from search  
---

If FAD involved be sure to fill out a GEN-5 Form - FAD and Floating Object Information Record

Changing buoys? - use first line for 15R and next for 15D

**HOW DETECTED**

- 1 Seen from vessel
- 2 Seen from helicopter
- 3 Marked with beacon
- 4 Bird radar
- 5 Sonar / depth sounder
- 6 Info. from other vessel
- 7 Anchored FAD / payao (recorded)
- 

"Seen from helicopter" Use when vessel gets to the school of tuna that helicopter either: 1. reported on; or 2. dropped buoy on

**SCHOOL ASSOCIATION (tuna)**

- 1 Unassociated
- 2 Feeding on Baifish } Free schools
- 3 Drifting log, debris or dead animal
- 4 Drifting raft, FAD or payao
- 5 Anchored raft, FAD or payao
- 6 Live whale
- 7 Live whale shark
- 8 Other (please specify)
- 9 No tuna associated

FLOATING OBJECT AND SCHOOL SIGHTINGS	Anchored floating objects (with NO school)		Free floating objects (no anchor) (with school)		Free schools		DID YOU OBSERVE ANY EVENTS TO RECORD ON FORM GEN-3 TODAY
	Tally	No.	Tally	No.	Tally	No.	
Example							<b>Journal</b>
N/A							pg #

**6**

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 Masa, on his 3rd trip in 1996 may get Trip ID No.: "JHM 96-03").

Ships Time: Record the "Ship's time" whenever there is a change of an activity. Be sure to record all activities. Record as often as necessary during the day. At the very least, record a morning, noon and evening position when in transit.

Latitude, Longitude, N, S, E, W: Record position as degrees, minutes and minutes to three decimal places, which is usually as it is displayed on a GPS. N.B.: dd = degrees; mm = minutes; mmm = decimal minutes.

For latitude below 10° put a zero in front of the number (e.g.: write 5° as 05°). Never forget to enter north or south and east or west correctly  
(for example "05°27.985' S, 152°28.239' W")

EEZ Code: Place the code for the EEZ (on back of Form GEN-6) for your position. Use the chart supplied or the chart of the vessel to work this out.

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Wind (kts) (°): Record speed in knots and direction in degrees of the compass (e.g. for a 15 knot easterly wind, under (kts) print "15" and under (°) print "090") If the wind meter shows metres per second then (kts = 2 x m/sec) approximately.

Sea conditions (C-S-M-R-V).

C = Calm; S = Slight; M = Moderate; R = Rough; V = Very rough.

Judge this yourself. A guide is the wind. If it has been blowing awhile then 0-5 kts is calm; 5-10 kts is slight; 10-20 kts is moderate; 20-40 kts is rough; and anything over 40 kts is usually very rough, however not always so.

Comments (and Set No. - from PS-3) - for all activity code "1" write the set No. before their comments in this field. Get "set No." from the PS-3 that must be used every set.

Floating object and school sightings: Through each day try to keep count of every floating objects and free schools. Try to note if floating objects have fish with them or not.

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Tally: Mark with a stroke every time you sight something (see example on front)

No : Count the "tally" strokes at end of day to get the number of each type of sighting.

Did You Observe Any Events To Record On Form GEN-3 Today ?

Circle **Yes** if any infringements, as listed on Form GEN-3, were observed.

Write notes on Form GEN-3 and in journal; record the journal page No. on this form. If there was no incident for the day circle **No**.

Page of: Number Form PS-2's through trip as Page 1, Page 2, Page 3, etc.  
**At end of trip** check pages are all there (again). Put last page number on every page (e.g. if there are 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").

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**UTC Date and UTC Time**: is standard date and time used by scientists to correct the ship's date and time when it is used incorrectly, as it often is.

**Record Ship's date and time and UTC date and time at same moment each day.** N.B.: UTC date is sometimes different from Ship's date.

Observers should record Ship's time in all other forms and paperwork.

Activity and Helicopter Codes: The activity codes are shown on the front.

Use only one code per entry. If it seems that two different codes could be used, record only the most important one and note the other in comments column.

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# SPC/FFA REGIONAL PURSE SEINE OBSERVER DAILY LOG

## FORM PS - 2

REV. MAR., 2014

OBSERVER NAME		VESSEL NAME					OBSERVER TRIP ID NUMBER		PAGE _____ OF _____			
SHIP'S TIME	LATITUDE (dd°mm.mmm')	N S	LONGITUDE (ddd°mm.mmm')	E W	EEZ CODE	ACTIVITY CODE	WIND (kts)	WIND (°)	SEA (C-S-M-R-V)	HOW DETECT	SCHOOL ASSOC	COMMENTS (and Set No. - from PS-3)
1												
2												
3												
4												
5												
6												
7												
8												
9												
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FLOATING OBJECT AND SCHOOL SIGHTINGS	Anchored floating objects (with NO school)	Free floating objects (no anchor) (with school)	Free schools	DID YOU OBSERVE ANY EVENTS TO RECORD ON FORM GEN-3 TODAY
Example	Tally	Tally	Tally	<b>Journal</b>
N/I	No.	No.	No.	YES NO (circle one)
	No.	No.	No.	pg #

SCHOOL ASSOCIATION (tuna)
1 Unassociated } Free schools
2 Feeding on Baitfish }
3 Drifting log, debris or dead animal
4 Drifting raft, FAD or payao
5 Anchored raft, FAD or payao
6 Live whale
7 Live whale shark
8 Other (please specify)
9 No tuna associated

HOW DETECTED
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2 Seen from helicopter
3 Marked with beacon
4 Bird radar
5 Sonar / depth sounder
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ACTIVITY and HELICOPTER CODES
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Changing buoys? - use first line for 15R and next for 15D



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: Count the "tally" strokes at end of day to get the number of each type of sighting.

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Anchored FAD - use code 7 only if FAD is found because its position is recorded on chart.

School Association (tuna): Use "School Association" code that best describes if **tuna** being targeted are with floating object, animal, feeding on baitfish, unassociated.

If it is an unusual **tuna** association comment here and describe in journal.



# SPC/FFA REGIONAL PURSE SEINE OBSERVER DAILY LOG

**FORM PS - 2**

REV. MAR. 2014

OBSERVER NAME		VESSEL NAME		OBSERVER TRIP ID NUMBER		PAGE		OF			
SHIP'S TIME	LATITUDE (dd°mm.mmm')	N S	LONGITUDE (ddd°mm.mmm')	E W	EEZ CODE	ACTIVITY CODE	WIND (kts) (°)	SEA (C-S-M-R-V)	HOW DETECT	SCHOOL ASSOC	COMMENTS (and Set No. - from PS-3)
1											
2											
3											
4											
5											
6											
7											
8											
9											
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22											
23											

START OF DAY	
SHIP'S DATE	SHIP'S TIME
UTC DATE	UTC TIME

**ALL MUST BE RECORDED**

- ACTIVITY and HELICOPTER CODES.**
- 1 Set If FAD involved be sure to fill out a GEN-5 Form - FAD and Floating Object Information Record
  - 2 Searching
  - 3 Transit
  - 4 No fishing - Breakdown
  - 5 No fishing - Bad weather
  - 6 In port - please specify
  - 7 Net cleaning set
  - 8 Investigate free school
  - 9 Investigate floating object
  - 10D Deploy - raft, FAD or payao
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  -

**HOW DETECTED**

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1. reported on; or  
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**SCHOOL ASSOCIATION (tuna)**

- 1 Unassociated
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FLOATING OBJECT AND SCHOOL SIGHTINGS	Anchored floating objects (with NO school)		Free floating objects (no anchor) (with school)		Free floating objects (with NO school)		Free schools		DID YOU OBSERVE ANY EVENTS TO RECORD ON FORM GEN-3 TODAY
	Tally	No.	Tally	No.	Tally	No.	Tally	No.	
Example	11/1								YES NO (circle one) pg #

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# SPC/FFA REGIONAL PURSE SEINE OBSERVER DAILY LOG

**FORM PS - 2**

REV. MAR. 2014

OBSERVER NAME	VESSEL NAME	OBSERVER TRIP ID NUMBER	PAGE _____ OF _____								
SHIPS TIME	LATITUDE (dd°mm.mmm')	N S	LONGITUDE (ddd°mm.mmm')	E W	EEZ CODE	ACTIVITY CODE	WIND (kts) (°)	SEA (C-S-M-R-V)	HOW DETECT	SCHOOL ASSOC	COMMENTS (and Set No. - from PS-3)
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											

START OF DAY	
SHIP's DATE	SHIP's TIME
UTC DATE	UTC TIME

**ALL MUST BE RECORDED**

**ACTIVITY and HELICOPTER CODES**

- 1 Set
- 2 Searching
- 3 Transit
- 4 No fishing - Breakdown
- 5 No fishing - Bad weather
- 6 In port - please specify
- 7 Net cleaning set
- 8 Investigate free school
- 9 Investigate floating object
- 10D Deploy - raft, FAD or payao
- 10R Retrieve - raft, FAD or payao
- 11 No fishing - Drifting at day's end
- 12 No fishing - Drifting with floating object
- 13 No fishing - Other reason (specify)
- 14 Drifting -With fish aggregating lights
- 15R Retrieve radio buoy
- 15D Deploy radio buoy
- 16 Transhipping or bunkering
- 17 Servicing FAD or floating object
- H1 Helicopter takes off to search
- H2 Helicopter returned from search
- 

If FAD involved be sure to fill out a GEN-5 Form - FAD and Floating Object Information Record

Changing buoys? - use first line for 15R and next for 15D

**HOW DETECTED**

- 1 Seen from vessel
- 2 Seen from helicopter
- 3 Marked with beacon
- 4 Bird radar
- 5 Sonar / depth sounder
- 6 Info. from other vessel
- 7 Anchored FAD / payao (recorded)
- 

"Seen from helicopter" Use when vessel gets to the school of tuna that helicopter either: 1. reported on; or 2. dropped buoy on

**SCHOOL ASSOCIATION (tuna)**

- 1 Unassociated
- 2 Feeding on Baifish } Free schools
- 3 Drifting log, debris or dead animal
- 4 Drifting raft, FAD or payao
- 5 Anchored raft, FAD or payao
- 6 Live whale
- 7 Live whale shark
- 8 Other (please specify)
- 9 No tuna associated

FLOATING OBJECT AND SCHOOL SIGHTINGS	Anchored floating objects (with school)		Free floating objects (no anchor) (with school)		Free floating objects (with NO school)		Free schools	
	Tally	No.	Tally	No.	Tally	No.	Tally	No.
Example	///							
	<b>6</b>							

DID YOU OBSERVE ANY EVENTS TO RECORD ON FORM GEN-3 TODAY	Journal
YES NO (circle one)	pg #

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 Masa, on his 3rd trip in 1996 may get Trip ID No.: "JHM 96-03").

Ships Time: Record the "Ship's time" whenever there is a change of an activity. Be sure to record all activities. Record as often as necessary during the day. At the very least, record a morning, noon and evening position when in transit.

Latitude, Longitude, N, S, E, W: Record position as degrees, minutes and minutes to three decimal places, which is usually as it is displayed on a GPS. N.B.: dd = degrees; mm = minutes; mmm = decimal minutes.

For latitude below 10° put a zero in front of the number (e.g.: write 5° as 05°). Never forget to enter north or south and east or west correctly  
(for example "05°27.985' S, 152°28.239' W")

EEZ Code: Place the code for the EEZ (on back of Form GEN-6) for your position. Use the chart supplied or the chart of the vessel to work this out.

If you are not sure then put the code for the EEZ where you think you are.

Wind (kts) (°): Record speed in knots and direction in degrees of the compass (e.g. for a 15 knot easterly wind, under (kts) print "15" and under (°) print "090") If the wind meter shows metres per second then (kts = 2 x m/sec) approximately.

Sea conditions (C-S-M-R-V).

C = Calm; S = Slight; M = Moderate; R = Rough; V = Very rough.

Judge this yourself. A guide is the wind. If it has been blowing awhile then

0-5 kts is calm; 5-10 kts is slight; 10-20 kts is moderate; 20-40 kts is rough;

and anything over 40 kts is usually very rough, however not always so.

Comments (and Set No. - from PS-3) - for all activity code "1" write the set No. before their comments in this field. Get "set No." from the PS-3 that must be used every set.

Floating object and school sightings: Through each day try to keep count of every floating objects and free schools. Try to note if floating objects have fish with them or not.

Also count anchored floating objects (FADs or payaos) and note if they have fish. Note that free schools can be feeding on baitfish or completely unassociated.

This can be a rough but sensible count. It is used to get an idea of life in your area. **Floating objects** can include trees, logs, drums, FADs, payaos or other lumps of debris.

Tally: Mark with a stroke every time you sight something (see example on front)

No: Count the "tally" strokes at end of day to get the number of each type of sighting.

Did You Observe Any Events To Record On Form GEN-3 Today?

Circle **Yes** if any infringements, as listed on Form GEN-3, were observed.

Write notes on Form GEN-3 and in journal; record the journal page No. on this form. If there was no incident for the day circle **No**.

Page of: Number Form PS-2's through trip as Page 1, Page 2, Page 3, etc.  
**At end of trip** check pages are all there (again). Put last page number on every page (e.g. if there are 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").

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**UTC Date and UTC Time**: is standard date and time used by scientists to correct the ship's date and time when it is used incorrectly, as it often is.

**Record Ship's date and time and UTC date and time at same moment each day.** N.B.: UTC date is sometimes different from Ship's date.

Observers should record Ship's time in all other forms and paperwork.

Activity and Helicopter Codes: The activity codes are shown on the front.

Use only one code per entry. If it seems that two different codes could be used, record only the most important one and note the other in comments column.

Please record every activity change throughout the day. There may be many. Note that, except for Helicopter codes, the start of a new activity marked by one code also means the end of the activity identified by the previous activity code.

For codes 1, 8, 9 or 17 always use *school association (tuna)* and *how detected* codes, otherwise the school association (tuna) and how detected code fields must be dashed!

**Use 15R and 15D when vessel retrieves or deploys a buoy set on FAD or log**  
- if changing buoys use 15R on one line and 15D on the next.

If using **code 16** remember that **transhipment** includes any transfer between vessels

Use **code 17** if making any repair or change to floating objects other than changing buoys Helicopter codes: Use whenever helicopter takes off or lands. Comment to describe main activity for each take off / landing - e.g.: search, set buoy, visit other (*named*) vessel, arrive from other (*named*) vessel, visit shore, rescue seaman, etc.

How Detected: Use this code to best show how investigated tuna or object was found.

If more than one method used, use code that shows what **first** made vessel

change course to inspect tuna or object (E.g.: If helicopter reports tuna so vessel turns toward its position but had to use its

bird radar to finally find the tuna then use code "2" - seen from helicopter.)

N.B.: usually a depth sounder or sonar is only used to investigate an already found object or fish, so code "5" should not be used very often. It is usually something else that first causes a vessel to change direction to investigate a school or floating object further.

Anchored FAD - use code 7 only if FAD is found because its position is recorded on chart.

School Association (tuna): Use "School Association" code that best describes if

**tuna** being targetted are with floating object, animal, feeding on baitfish, unassociated.

If it is an unusual **tuna** association comment here and describe in journal.



# SPC/FFA REGIONAL PURSE SEINE OBSERVER DAILY LOG

## FORM PS - 2

REV. MAR. 2014

OBSERVER NAME		VESSEL NAME		OBSERVER TRIP ID NUMBER										PAGE		OF		
SHIPS TIME	LATITUDE (dd°mm.mmm')	N S	LONGITUDE (ddd°mm.mmm')	E W	EEZ CODE	ACTIVITY CODE	WIND (kts)	( ° )	SEA C-S-M-R-V	HOW DETECT	SCHOOL ASSOC	COMMENTS (and Set No. - from PS-3)	SHIP's DATE	SHIP's TIME	<b>START OF DAY</b>		UTC DATE	UTC TIME
1															<b>ALL MUST BE RECORDED</b>			
2															<b>ACTIVITY and HELICOPTER CODES</b>			
3															1 Set 2 Searching 3 Transit 4 No fishing - Breakdown 5 No fishing - Bad weather 6 In port - please specify 7 Net cleaning set 8 Investigate free school 9 Investigate floating object 10D Deploy - raft, FAD or payao 10R Retrieve - raft, FAD or payao 11 No fishing - Drifting at day's end 12 No fishing - Drifting with floating object 13 No fishing - Other reason (specify) 14 Drifting -With fish aggregating lights 15R Retrieve radio buoy 15D Deploy radio buoy 16 Transhipping or bunkering 17 Servicing FAD or floating object H1 Helicopter takes off to search H2 Helicopter returned from search ---			
4															If FAD involved be sure to fill out a GEN-5 Form - FAD and Floating Object Information Record			
5															<b>HOW DETECTED</b>			
6															1 Seen from vessel 2 Seen from helicopter 3 Marked with beacon 4 Bird radar 5 Sonar / depth sounder 6 Info. from other vessel 7 Anchored FAD / payao (recorded) ---			
7															"Seen from helicopter" Use when vessel gets to the school of tuna that helicopter either: 1. reported on; or 2. dropped buoy on			
8															<b>SCHOOL ASSOCIATION (tuna)</b>			
9															1 Unassociated 2 Feeding on Baitfish 3 Drifting log, debris or dead animal 4 Drifting raft, FAD or payao 5 Anchored raft, FAD or payao 6 Live whale 7 Live whale shark 8 Other (please specify) 9 No tuna associated			
10															<b>DID YOU OBSERVE ANY EVENTS TO RECORD ON FORM GEN-3 TODAY</b>			
11															Free floating objects (no anchor) (with school) Tally Yes No (circle one) pg # Anchored floating objects (with school) Tally Yes No (circle one) pg # Free floating objects (with NO school) Tally Yes No (circle one) pg #			
12															<b>FLOATING OBJECT AND SCHOOL SIGHTINGS</b>			
13															Example:  6			



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 Masa, on his 3rd trip in 1996 may get Trip ID No.: "JHM 96-03").

Ships Time: Record the "Ship's time" whenever there is a change of an activity.

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C = Calm; S = Slight; M = Moderate; R = Rough; V = Very rough.

Judge this yourself. A guide is the wind. If it has been blowing awhile then 0-5 kts is calm; 5-10 kts is slight; 10-20 kts is moderate; 20-40 kts is rough; and anything over 40 kts is usually very rough, however not always so.

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**SPC/FFA REGIONAL PURSE SEINE OBSERVER  
DAILY LOG**

**FORM PS - 2**

REV. MAR. 2014

<b>OBSERVER NAME</b>	<b>VESSEL NAME</b>	<b>OBSERVER TRIP ID NUMBER</b>	<b>PAGE</b>	<b>OF</b>																							
<b>SHIP'S TIME</b>	<b>LATITUDE (dd°mm.mmm')</b>	<b>N S</b>	<b>LONGITUDE (ddd°mm.mmm')</b>	<b>E W</b>	<b>EEZ CODE</b>	<b>ACTIVITY CODE</b>	<b>WIND (kts) ( ° )</b>	<b>SEA (C-S-M-R-V)</b>	<b>HOW DETECT</b>	<b>SCHOOL ASSOC</b>	<b>COMMENTS (and Set No. - from PS-3)</b>	<b>START OF DAY</b>															
												SHIP'S TIME															
												UTC TIME															
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<b>ALL MUST BE RECORDED</b>																											
<b>ACTIVITY and HELICOPTER CODES</b>																											
1	2	3	4	5	6	7	8	9	10	10D	10R	11	12	13	14	15	15R	16	17	H1	H2	---					
Set	Searching	Transit	No fishing - Breakdown	No fishing - Bad weather	In port - please specify	Net cleaning set	Investigate free school	Investigate floating object	Deploy - raft, FAD or payao	Retrieve - raft, FAD or payao	No fishing - Drifting at day's end	No fishing - Other reason (specify)	Drifting - With fish aggregating lights	Retrieve radio buoy	Deploy radio buoy	Transhipping or bunkering	Servicing FAD or floating object	Helicopter takes off to search	Helicopter returned from search	---	---	---					
#FAD involved be sure to fill out a GEN-5 Form - FAD and Floating Object Information Record													Changing buoys? - use first line for 15R and next for 15D														
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<b>HOW DETECTED</b>													<b>SCHOOL ASSOCIATION (tuna)</b>														
1	2	3	4	5	6	7	---	1	2	3	4	5	6	7	8	9	---	1	2	3	4	5	6	7	8	9	
Seen from vessel	Seen from helicopter	Marked with beacon	Bird radar	Sonar / depth sounder	Info. from other vessel	Anchored FAD / payao (recorded)	---	Unassociated	Feeding on Baitfish	Free schools	Drifting log, debris or dead animal	Drifting raft, FAD or payao	Anchored raft, FAD or payao	Live whale	Live whale shark	Other (please specify)	No tuna associated	Unassociated	Feeding on Baitfish	Free schools	Drifting log, debris or dead animal	Drifting raft, FAD or payao	Anchored raft, FAD or payao	Live whale	Live whale shark	Other (please specify)	No tuna associated

FLOATING OBJECT AND SCHOOL SIGHTINGS	Anchored floating objects (with NO school)		Free floating objects (no anchor) (with school)		Free floating objects (with NO school)		Free schools		DID YOU OBSERVE ANY EVENTS TO RECORD ON FORM GEN-3 TODAY			
	Tally	No.	Tally	No.	Tally	No.	Tally	No.	YES	NO		
Example N/I											Journal	pg #

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# SPC/FFA REGIONAL PURSE SEINE OBSERVER DAILY LOG

**FORM PS - 2**

REV. MAR. 2014

OBSERVER NAME		VESSEL NAME		OBSERVER TRIP ID NUMBER		PAGE		OF			
SHIP'S TIME	LATITUDE (dd°mm.mmm')	N S	LONGITUDE (ddd°mm.mmm')	E W	EEZ CODE	ACTIVITY CODE	WIND (kts) (°)	SEA (C-S-M-R-V)	HOW DETECT	SCHOOL ASSOC	COMMENTS (and Set No. - from PS-3)
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											

FLOATING OBJECT AND SCHOOL SIGHTINGS	Anchored floating objects (with NO school)	Free floating objects (no anchor) (with school)	Free schools	DID YOU OBSERVE ANY EVENTS TO RECORD ON FORM GEN-3 TODAY	Journal
Example	Tally	Tally	Tally	YES NO	pg #
N/A	No.	No.	No.	(circle one)	6

**ALL MUST BE RECORDED**

**ACTIVITY and HELICOPTER CODES**

- 1 Set
  - 2 Searching
  - 3 Transit
  - 4 No fishing - Breakdown
  - 5 No fishing - Bad weather
  - 6 In port - please specify
  - 7 Net cleaning set
  - 8 Investigate free school
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  - 10D Deploy - raft, FAD or payao
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  - 12 No fishing - Drifting with floating object
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  - 14 Drifting - With fish aggregating lights
  - 15R Retrieve radio buoy
  - 15D Deploy radio buoy
  - 16 Transshipping or bunkering
  - 17 Servicing FAD or floating object
  - H1 Helicopter takes off to search
  - H2 Helicopter returned from search
  -
- if FAD involved be sure to fill out a GEN-5 Form - FAD and Floating Object Information Record
- Changing buoys? - use first line for 15R and next for 15D

**HOW DETECTED**

- 1 Seen from vessel
  - 2 Seen from helicopter
  - 3 Marked with beacon
  - 4 Bird radar
  - 5 Sonar / depth sounder
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  - 7 Anchored FAD / payao (recorded)
  -
- "Seen from helicopter" Use when vessel gets to the school of tuna that helicopter either:  
1. reported on; or  
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**SCHOOL ASSOCIATION (tuna)**

- 1 Unassociated
- 2 Feeding on Baitfish } Free schools
- 3 Drifting log, debris or dead animal
- 4 Drifting raft, FAD or payao
- 5 Anchored raft, FAD or payao
- 6 Live whale
- 7 Live whale shark
- 8 Other (please specify)
- 9 No tuna associated



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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# SPC/FFA REGIONAL PURSE SEINE OBSERVER DAILY LOG

**FORM PS - 2**

REV. MAR. 2014

OBSERVER NAME			VESSEL NAME			OBSERVER TRIP ID NUMBER			PAGE _____ OF _____		
SHIP'S TIME	LATITUDE (dd°mm.mmm')	N S	LONGITUDE (ddd°mm.mmm')	E W	EEZ CODE	ACTIVITY CODE	WIND (kts) ( ° )	SEA (C-S-M-R-V)	HOW DETECT	SCHOOL ASSOC	COMMENTS (and Set No. - from PS-3)
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
FLOATING OBJECT AND SCHOOL SIGHTINGS		Anchored floating objects (with NO school)		Free floating objects (with NO school)		Free floating objects (no anchor) (with school)		Free schools		DID YOU OBSERVE ANY EVENTS TO RECORD ON FORM GEN-3 TODAY	
Example		Tally		Tally		Tally		Tally		Journal	
N/A		No.		No.		No.		No.		YES NO (circle one) pg #	

START OF DAY	
SHIP'S DATE	SHIP'S TIME
UTC DATE	UTC TIME

**ALL MUST BE RECORDED**

**ACTIVITY and HELICOPTER CODES**

- 1 Set
- 2 Searching
- 3 Transit
- 4 No fishing - Breakdown
- 5 No fishing - Bad weather
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- 7 Net cleaning set
- 8 Investigate free school
- 9 Investigate floating object
- 10 Deploy - raft, FAD or payao
- 10R Retrieve - raft, FAD or payao
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- 13 No fishing - Other reason (specify)
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- 15D Deploy radio buoy
- 16 Transhipping or bunkering
- 17 Servicing FAD or floating object
- H1 Helicopter takes off to search
- H2 Helicopter returned from search
- 

If FAD involved be sure to fill out a GEN-5 Form - FAD and Floating Object Information Record

**HOW DETECTED**

- 1 Seen from vessel
- 2 Seen from helicopter
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- 

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N/A		No.		No.		No.		No.		YES NO (circle one) pg #	
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- if changing buoys use 15R on one line and 15D on the next.

If using **code 16** remember that **transhipment** includes any transfer between vessels

Use **code 17** if making any repair or change to floating objects other than changing buoys

Helicopter codes: Use whenever helicopter takes off or lands. Comment to describe main activity for each take off / landing - e.g.: search, set buoy, visit other (named) vessel, arrive from other (named) vessel, visit shore, rescue seaman, etc.

How Detected: Use this code to best show how investigated tuna or object was found.

If more than one method used, use code that shows what **first** made vessel change course to inspect tuna or object (E.g.: If helicopter reports tuna so vessel turns toward its position but had to use its

bird radar to finally find the tuna then use code "2" - seen from helicopter.)

N.B.: usually a depth sounder or sonar is only used to investigate an already found object or fish, so code "5" should not be used very often. It is usually something else that first causes a vessel to change direction to investigate a school or floating object

further.

Anchored FAD - use code 7 only if FAD is found because its position is recorded on chart.

School Association (tuna): Use "School Association" code that best describes if **tuna** being targetted are with floating object, animal, feeding on baitfish, unassociated.

If it is an unusual **tuna** association comment here and describe in journal.



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 Masa, on his 3rd trip in 1996 may get Trip ID No.: "JHM 96-03").

Ships Time: Record the "Ship's time" whenever there is a change of an activity.

Be sure to record all activities. Record as often as necessary during the day.

At the very least, record a morning, noon and evening position when in transit.

Latitude, Longitude, N, S, E, W: Record position as degrees, minutes and seconds to three decimal places, which is usually as it is displayed on a GPS. N.B.: dd = degrees; mm = minutes; mmm = decimal minutes.

For latitude below 10° put a zero in front of the number (e.g.: write 5° as 05°).

Never forget to enter north or south and east or west correctly

(for example "05°27.985' S, 152°28.239' W")

EEZ Code: Place the code for the EEZ (on back of Form GEN-6) for your position. Use the chart supplied or the chart of the vessel to work this out.

If you are not sure then put the code for the EEZ where you think you are.

Wind (kts) (°): Record speed in knots and direction in degrees of the compass (e.g. for a 15 knot easterly wind, under (kts) print "15" and under (°) print "090") If the wind meter shows metres per second then (kts = 2 x m/sec) approximately.

Sea conditions (C-S-M-R-V).

C = Calm; S = Slight; M = Moderate; R = Rough; V = Very rough.

Judge this yourself. A guide is the wind. If it has been blowing awhile then

0-5 kts is calm; 5-10 kts is slight; 10-20 kts is moderate; 20-40 kts is rough;

and anything over 40 kts is usually very rough, however not always so.

Comments (and Set No. - from PS-3) - for all activity code "1" write the set No. before their comments in this field. Get "set No." from the PS-3 that must be used every set.

Floating object and school sightings: Through each day try to keep count of every floating objects and free schools. Try to note if floating objects have fish with them or not.

Also count anchored floating objects (FADs or payaos) and note if they have fish. Note that free schools can be feeding on baitfish or completely unassociated.

This can be a rough but sensible count. It is used to get an idea of life in your area. **Floating objects** can include trees, logs, drums, FADs, payaos or other lumps of debris.

Tally: Mark with a stroke every time you sight something (see example on front)

No : Count the "tally" strokes at end of day to get the number of each type of sighting.

Did You Observe Any Events To Record On Form GEN-3 Today?

Circle **Yes** if any infringements, as listed on Form GEN-3, were observed.

Write notes on Form GEN-3 and in journal; record the journal page No. on this form. If there was no incident for the day circle **No**.

Page of: Number Form PS-2's through trip as Page 1, Page 2, Page 3, etc.

**At end of trip** check pages are all there (again). Put last page number on every page (e.g. if there are 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").

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**UTC Date and UTC Time**: is standard date and time used by scientists to correct the ship's date and time when it is used incorrectly, as it often is.

**Record Ship's date and time and UTC date and time at same moment each day.** N.B.: UTC date is sometimes different from Ship's date.

Observers should record Ship's time in all other forms and paperwork.

Activity and Helicopter Codes: The activity codes are shown on the front.

Use only one code per entry. If it seems that two different codes could be used, record only the most important one and note the other in comments column.

Please record every activity change throughout the day. There may be many. Note that, except for Helicopter codes, the start of a new activity marked by one

code also means the end of the activity identified by the previous activity code.

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change course to inspect tuna or object (E.g.: If helicopter reports tuna so vessel turns toward its position but had to use its

bird radar to finally find the tuna then use code "2" - seen from helicopter.)

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If it is an unusual **tuna** association comment here and describe in journal.

# SPC/FFA REGIONAL PURSE SEINE OBSERVER DAILY LOG

**FORM PS - 2**

REV. MAR. 2014

OBSERVER NAME		VESSEL NAME		OBSERVER TRIP ID NUMBER										PAGE	OF
SHIPS TIME	LATITUDE (dd°mm.mmm')	N S	LONGITUDE (ddd°mm.mmm')	E W	EEZ CODE	ACTIVITY CODE	WIND (kts)	( ° )	SEA C-S-M-R-V	HOW DETECT	SCHOOL ASSOC	COMMENTS (and Set No. - from PS-3)	<b>START OF DAY</b>		
													SHIP'S DATE	SHIP'S TIME	
													UTC DATE	UTC TIME	
<b>ALL MUST BE RECORDED</b>															
<b>ACTIVITY and HELICOPTER CODES</b>															
1 Set <span style="float: right; border: 1px dashed black; padding: 2px;">If FAD involved be sure to fill out a GEN-5 Form-FAD and Floating Object Information Record</span> 2 Searching 3 Transit 4 No fishing - Breakdown 5 No fishing - Bad weather 6 In port - please specify 7 Net cleaning set 8 Investigate free school 9 Investigate floating object 10 Deploy - raft, FAD or payao 10R Retrieve - raft, FAD or payao 11 No fishing - Drifting at day's end 12 No fishing - Drifting with floating object 13 No fishing - Other reason (specify) 14 Drifting -With fish aggregating lights 15R Retrieve radio buoy 15D Deploy radio buoy 16 Transhipping or bunkering 17 Servicing FAD or floating object H1 Helicopter takes off to search H2 Helicopter returned from search ---															
<b>HOW DETECTED</b>															
1 Seen from vessel 2 Seen from helicopter 3 Marked with beacon 4 Bird radar 5 Sonar / depth sounder 6 Info. from other vessel 7 Anchored FAD / payao (recorded) ---															
<b>SCHOOL ASSOCIATION (tuna)</b>															
1 Unassociated 2 Feeding on Baifish } Free schools 3 Drifting log, debris or dead animal 4 Drifting raft, FAD or payao 5 Anchored raft, FAD or payao 6 Live whale 7 Live whale shark 8 Other (please specify) 9 No tuna associated															

FLOATING OBJECT AND SCHOOL SIGHTINGS	Anchored floating objects (with school)		Free floating objects (no anchor) (with school)		Free schools		DID YOU OBSERVE ANY EVENTS TO RECORD ON FORM GEN-3 TODAY
	Tally	No.	Tally	No.	Tally	No.	
Example N/I							
<b>6</b>							



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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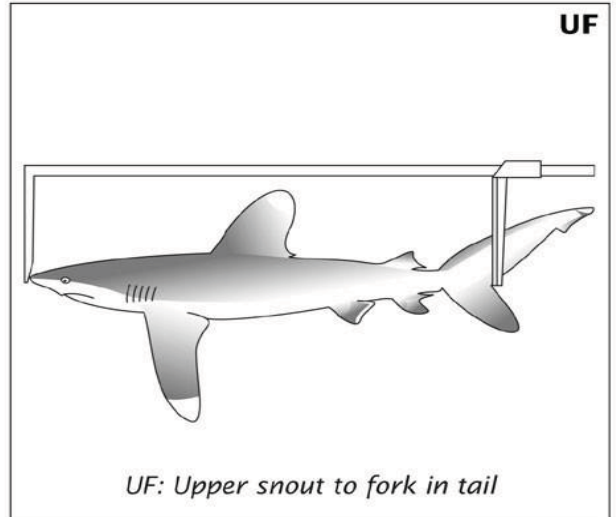
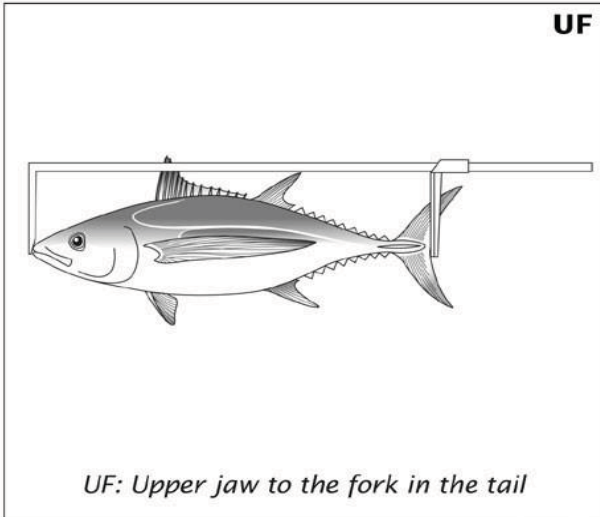
If it is an unusual **tuna** association comment here and describe in journal.



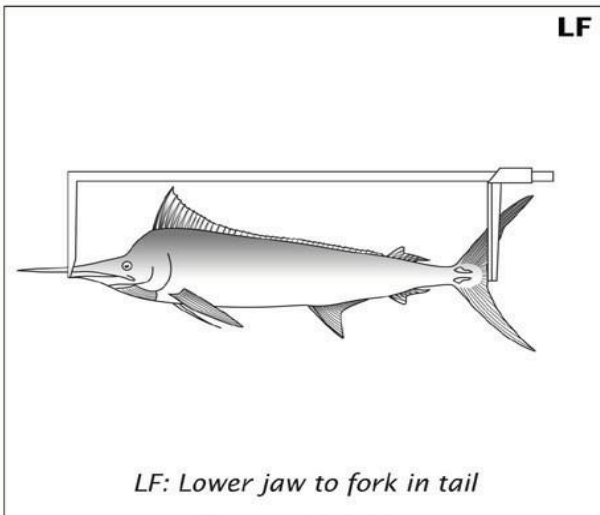
# Purse-Seine Length Measurements



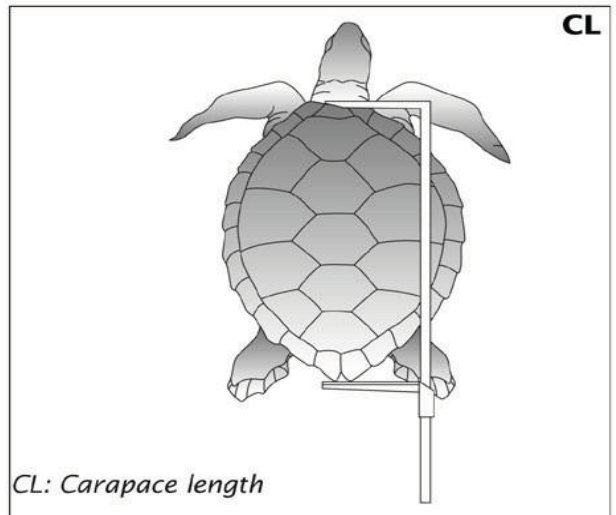
You may only take these measurements on board a purse-seine vessel



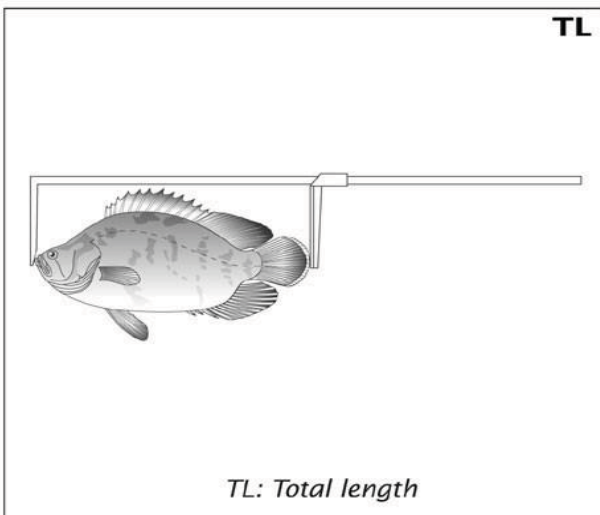
UF – (for all tuna, bycatch and sharks)



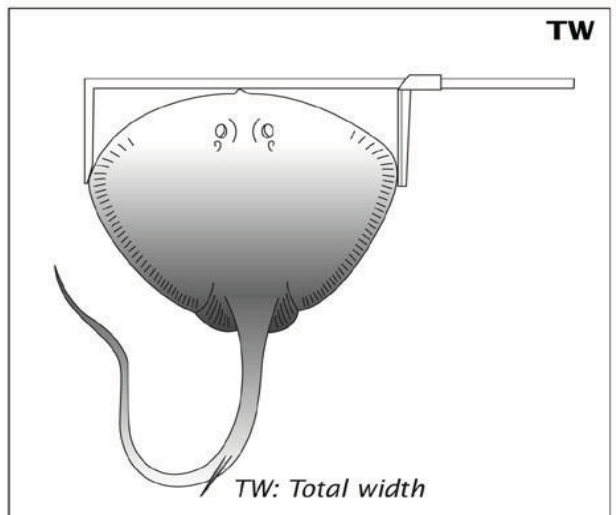
LF – (for all billfish)



CL – (for turtles)



TL – (for all species with no fork in their tail)



TW – (for rays)



# SPC/FFA REGIONAL PURSE SEINE OBSERVER SET DETAILS

**FORM PS - 3**

REV. MAR. 2014

OBSERVER NAME	VESSEL NAME	PAGE _____ OF _____ (SET No.)
OBSERVER TRIP I.D. NUMBER	START OF SET DATE AND TIME OBSERVER: YY MM DD hh mm (see PS-2)	START OF SET DATE AND TIME VESSEL LOG: YY MM DD hh mm

SET SEQUENCE TIMES						
EVENT:	START OF SET (SKIFF OFF)	BEGIN PURSING (WINCH ON)	END PURSING (RINGS UP)	BEGIN BRAILING	END OF BRAILING / SACK ONBOARD	END OF SET (NEXT ACTIVITY START)
TIME:						

SET CATCH DETAILS													
OBSERVER'S BREAKDOWN OF TOTAL TUNA CAUGHT <small>- circle YES or NO for each species</small>										N.B.: these calculations include all the tuna in this catch, whether retained or discarded			
brail capacity ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT <small>Type 1 brail (see PS-1 form)</small>		sum of all brails ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT <small>(see PS-4 form)</small>		Total catch less bycatch (see below) = Total tuna catch <input type="text"/> mT		<b>SKIP-JACK</b>		<b>YELLOWFIN</b> SMALL (< 75 cm)      LARGE (> 75 cm)			<b>BIGEYE</b> SMALL (< 75 cm)      LARGE (> 75 cm)		
YES	(%)	YES	(%)	YES	(%)	NUMBER	YES	(%)	YES	(%)	NUMBER		
NO		NO		NO			NO		NO				

BY-CATCH (ALL NON-TARGET SPECIES)					TARGET TUNA						
SPECIES CODE	FATE CODE	OBSERVER No. (mT)	VESSEL LOG No. (mT)	COMMENTS	A. OBSERVER estimates of total of each species caught (mT)			SKJ	YFT	BET	
					Observer	FATE					
						a. (mT)					
					Vessel	FATE					
						(mT)					
					Observer	FATE					
						b. (mT)					
					Vessel	FATE					
						(mT)					
					Observer	FATE					
						c. (mT)					
					Vessel	FATE					
						(mT)					
Total weight of bycatch: _____ mT					B. OBSERVER totals (mT) discards + RCC (a+b+c): _____						
Comments					Tuna kept onboard for later unload if not RWW	FATE					
						OBS (mT)					
						VES (mT)					
					FATE			RWW	RWW	RWW	
OBS (mT)											
VES (mT)											
					Due to gear break / bycatch mitigation			ESC	ESC	ESC	
					estimates	OBS (mT)					
						VES (mT)					
<b>TAGS - How many Tags were recovered?</b>					Record species and tag numbers. Fill tag recovery forms!						

FATE CODES			
RWW	Retained - whole weight	DFR	Discarded trunk - fins retained (shark only)
RHG	Retained - headed and gutted (billfish only)	DTS	Discarded - too small (tuna only)
RGG	Retained - gilled and gutted (kept for sale)	DGD	Discarded - gear damage (tuna only)
RPT	Retained - partial (e.g. fillet, loin)	DVF	Discarded - vessel fully loaded
RCC	Retained - crew consumption (onboard)	DUS	Discarded - unwanted species
ROR	Retained - other reason (specify)	DSD	Discarded - shark damage
RFR	Retained trunk - fins retained (shark only)	DWD	Discarded - whale damage
DPA	Discarded SSI - alive	DPA	
DPD	(species of special interest) - dead	DPD	
DPU	- unknown condition	DPU	
DPQ	Discarded - poor quality		
DOR	Discarded - other reasons (specify)		
ESC	= Escaped		

(A PS-3 form **must** be filled out for the first and every set (recorded as *activity code 1* on PS-2) - whether monitored or not, even if a skunk set.) (For the very rare occasion that a set is not monitored the column for the vessel's estimate of catch must still be completed.) (N.B.: A PS-4 form is not required for skunk set.)

<b>OBSERVER NAME</b>	Print first name first and last name last. Eg.: "John Smith" not "Smith John". Print clearly !
<b>VESSEL NAME</b>	Full unabbreviated name. Eg.: a boat with name "Captain Paul Catchit" should not be abbreviated to Capt. P.Catchit.
<b>PAGE OF</b>	Number each PS-3 form from start until end of trip. Because one PS-3 is used for every set this is also the set No.
<b>OBSERVER TRIP ID No.</b>	This number is the same on all forms for a single observer trip.
<b>START of SET</b> Observer (PS-2)	The exact date and time that the observer recorded for this set on the PS-2. Record as year/month/day.
<b>DATE and TIME</b> Vessel (logsheet)	The exact date and time that the vessel has recorded for this set on their PS Log Sheet. Record as year/month/date.

<b>SET SEQUENCE</b>	<b>BEGIN SET (S KIFF OFF)</b>	Exact same time as recorded on the daily log (PS-2) and in the "Observer Start of Set Date and Time" section, above.
	<b>BEGIN PURSING (WINCH ON)</b>	The purse wire will be thrown to the vessel from the skiff, and it will then be attached to the winch. Record the time the winch is switched on.
	<b>END PURSING (RINGS UP)</b>	During the winching, a bunch of rings will come on board. Record the time when the last of the rings appears. This indicates the net has totally enclosed (pursed) the fish and they cannot escape.
	<b>BEGIN BRAILING</b>	Record the time the vessel starts the brailing process. This will have been recorded on the PS-4 form. If there was no brailing just record a dash
	<b>END BRAILING / SACK ONBOARD</b>	Record the time when the vessel finishes brailing. If there was no brailing record the time that the sack was lifted up on to the deck.
	<b>END SET (NEXT ACTIVITY START)</b>	Next activity START marks end of set (no later than 'skiff comes on board'). Record the activity change on PS-2.

<b>TOTAL CATCH and TOTAL TUNA CATCH</b>	
<b>Brail Capacity</b>	Find on the PS-1. Use to calculate total catch. <b>'Brail capacity' x 'Sum of all brails' = 'TOTAL CATCH'</b>
<b>Sum of all brails</b>	After calculating the total number of brails on the PS-4 form (for the same set) transfer your answer here.
Type 1 and	... if a 2nd brail type is also used for this set samples, estimates of the brail capacity for both brail types must be made. Fill the 'brail capacity' and the 'sum of all brail' fields for both the 'type 1' and the 'type 2' brails.
Type 2 brails	Add calculations of total catch from each brail type together to get a single "TOTAL CATCH" figure. (If there is no 'type 2' brail (which is normal) then simply record a dash in each of the 'type 2' fields and all other calculations will be based only on the 'type 1' brail information that is provided.)
<b>TOTAL CATCH</b>	This is the combined weight of all the (target and bycatch species) fish brought onboard.
<b>less bycatch</b>	Calculate the amount of bycatch (in mT) that is in the catch in the bycatch area below and transfer to this field
<b>TOTAL TUNA CATCH</b>	Subtract the total amount of bycatch from the TOTAL CATCH to get TOTAL TUNA CATCH. This includes all tuna caught whether or not it is later discarded. It does not include tuna that escaped <b>alive</b> from net.

<b>OBSERVER'S BREAKDOWN of TOTAL TUNA CAUGHT</b>	<b>YES or NO</b>	YES' or NO' <b>must</b> be circled to show if SKJ, small YFT, large YFT, small BET, large BET were even seen in the catch
<b>%</b>		Carefully eye-estimate the <b>percentage of the TOTAL TUNA</b> for each species (+ each size category for YFT and BET) N.B.: % of small (or large) YFT (or BET) is the % of <b>TOTAL TUNA</b> ! NOT % of that species of tuna.
<b>Number</b>		If there are not many large YFT or BET and good estimate of number can be made record number of large YFT (or BET) If a <b>good</b> estimate (counts) is not easy, dash the 'number' field. <b>Do not</b> make a rough estimate !

<b>SET CATCH DETAILS</b>	<b>BY-CATCH SPECIES CODE</b>	Record every species that lands on deck with the three letter FAO species code.
	<b>FATE CODE</b>	Use fate codes provided to say what happened to each species landed Use 1 line per species/fate group. Remember that a species may be split into groups each with a different fate code. Eg: RRU RWW 2 mT <b>REMEMBER</b> - use only one (the best and most informative) code for each line. RRU DTS 0.5 mT <b>NEW 2014:</b> Use the SSI FATE CODES FOR ALL SHARKS to indicate 'live' status. Use 'RFR' / 'DFR' in comments if finning observed).
	<b>OBSERVER</b>	
	<b>(mT)</b>	Calculate the amount of each species caught, in each fate code category, using an appropriate assessment technique. Use mT. For instance if 300 kg of Mahi mahi and 40 kg of wahoo were caught - record 0.3 mt DOL /0.04 mt WAH
	<b>Number</b>	Only record a number if an accurate count is possible. Large amounts are recorded in "mT". If possible record both.
	<b>VESSEL LOG</b>	
<b>(mT)</b>	Copy the figures recorded by the ship's officers on the Vessel Logsheet, for this set.	
<b>Number</b>	Place a dash in the column if they have not recorded the species.	
<b>Total weight of bycatch</b>	Calculate from the fields above for observer (important for use in 'Total Tuna' calculation) and vessel bycatch estimates	

<b>TAGS</b>	<b>TARGET TUNA</b>	
	<b>A. OBSERVER estimates of total caught</b>	Calculate the combined large and small <b>% x Total tuna catch</b> for each species (SKJ, YFT and BET)
	<b>FATE</b>	Record fate of discarded tuna or tuna retained for crew consumption (RCC), using fate codes listed at bottom of form
	<b>OBS (mT)</b>	Give a careful approximation (eye-estimate) of the total amount of catch for the relevant fate /species code combination. Record the amounts in metric tonnes.
	<b>VES (mT)</b>	Copy the weight, as recorded for each species in the vessel's logsheet. If nothing is recorded in the logsheet place a dash in the data field. If "0" is recorded on the logsheet record "0" here. <b>Record in metric tonnes.</b> Eg.: If amount on logsheet is in short tons this <b>MUST</b> be converted to metric tonnes.
	<b>B. OBSERVER totals (mT) discards + RCC</b>	For each species add together the mT amounts that are recorded in the rows 'a.', 'b.' and 'c' to get the total of all the discarded and the retained for crew consumption (RCC) combined for that species.
	<b>Tuna kept onboard for later unload</b>	Usually tuna are retained whole weight (RWW). If so then RWW can be calculated as (A. - B.) for each species. If tuna is otherwise retained onboard for later unload (fate = R??) then A. - B. = the combined total of RWW + R??
	<b>Due to gear break / bycatch mitigation</b>	ESC Best observer estimate of mT of any live tuna that escaped during set. Refer to Captain for any tuna seen escaping via sonar. Include any live tuna escaped from gear breakage or because vessel tries to release important bycatch. N.B. This does not include dead tuna that are released from the net after a breakdown during or after net sac-up = discards.
	<b>How many tags were recovered? species and tag numbers</b>	Note the number of tags found from in this set. Look out for tags on tuna, billfish, sharks, turtles, birds, etc. Record <b>tag number</b> and <b>species</b> . Note tag colour, tagging organisation and any unusual features about condition. Fill these and other tag details into the tag recovery form (and GEN-2 form if necessary).



# SPC/FFA REGIONAL PURSE SEINE OBSERVER SET DETAILS

**FORM PS - 3**

REV. MAR. 2014

OBSERVER NAME	VESSEL NAME	PAGE _____ OF _____ (SET No.)
OBSERVER TRIP I.D. NUMBER	START OF SET DATE AND TIME OBSERVER: YY MM DD hh mm (see PS-2)	START OF SET DATE AND TIME VESSEL LOG: YY MM DD hh mm

SET SEQUENCE TIMES						
EVENT:	START OF SET (SKIFF OFF)	BEGIN PURSING (WINCH ON)	END PURSING (RINGS UP)	BEGIN BRAILING	END OF BRAILING / SACK ONBOARD	END OF SET (NEXT ACTIVITY START)
TIME:						

SET CATCH DETAILS											
OBSERVER'S BREAKDOWN OF TOTAL TUNA CAUGHT <small>- circle YES or NO for each species</small>										N.B.: these calculations include all the tuna in this catch, whether retained or discarded	
brail capacity ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT <small>Type 1 brail (see PS-1 form)</small>		sum of all brails ( <input type="text"/> mT x <input type="text"/> ) + <input type="text"/> mT <small>(see PS-4 form)</small>		Total catch less bycatch (see below) = Total tuna catch <input type="text"/> mT		<b>SKIP-JACK</b> YES (%) NO		<b>YELLOWFIN</b> SMALL (< 75 cm) LARGE (> 75 cm) YES (%) NO		<b>BIGEYE</b> SMALL (< 75 cm) LARGE (> 75 cm) YES (%) NO	

BY-CATCH (ALL NON-TARGET SPECIES)					TARGET TUNA					
SPECIES CODE	FATE CODE	OBSERVER No. (mT)	VESSEL LOG No. (mT)	COMMENTS	A. OBSERVER estimates of total of each species caught (mT)			SKJ	YFT	BET
					Observer	FATE				
						a. (mT)				
					Vessel	FATE				
						(mT)				
					Observer	FATE				
						b. (mT)				
					Vessel	FATE				
						(mT)				
					Observer	FATE				
						c. (mT)				
					Vessel	FATE				
						(mT)				
Total weight of bycatch: _____ mT					B. OBSERVER totals (mT) discards + RCC (a+b+c): _____					
Comments					Tuna kept onboard for later unload if not RWW	FATE				
						OBS (mT)				
						VES (mT)				
					FATE	RWW	RWW	RWW		
					estimates	OBS (mT)				
						VES (mT)				
<b>TAGS - How many Tags were recovered?</b>					<small>Record species and tag numbers. Fill tag recovery forms!</small>					

FATE CODES			
RWW	Retained - whole weight	DFR	Discarded trunk - fins retained (shark only)
RHG	Retained - headed and gutted (billfish only)	DTS	Discarded - too small (tuna only)
RGG	Retained - gilled and gutted (kept for sale)	DGD	Discarded - gear damage (tuna only)
RPT	Retained - partial (e.g. fillet, loin)	DVF	Discarded - vessel fully loaded
RCC	Retained - crew consumption (onboard)	DUS	Discarded - unwanted species
ROR	Retained - other reason (specify)	DSD	Discarded - shark damage
RFR	Retained trunk - fins retained (shark only)	DWD	Discarded - whale damage
DPA	Discarded SSI - alive	DPA	
DPD	(species of special interest) - dead	DPD	
DPU	- unknown condition	DPU	
DPQ	Discarded - poor quality		
DOR	Discarded - other reasons (specify)		
ESC	= Escaped		

(A PS-3 form **must** be filled out for the first and every set (recorded as *activity code 1* on PS-2) - whether monitored or not, even if a skunk set.) (For the very rare occasion that a set is not monitored the column for the vessel's estimate of catch must still be completed.) (N.B.: A PS-4 form is not required for skunk set.)

<b>OBSERVER NAME</b>	Print first name first and last name last. Eg.: "John Smith" not "Smith John". Print clearly !
<b>VESSEL NAME</b>	Full unabbreviated name. Eg.: a boat with name "Captain Paul Catchit" should not be abbreviated to Capt. P.Catchit.
<b>PAGE OF</b>	Number each PS-3 form from start until end of trip. Because one PS-3 is used for every set this is also the set No.
<b>OBSERVER TRIP ID No.</b>	This number is the same on all forms for a single observer trip.
<b>START of SET</b> Observer (PS-2)	The exact date and time that the observer recorded for this set on the PS-2. Record as year/month/day.
<b>DATE and TIME</b> Vessel (logsheet)	The exact date and time that the vessel has recorded for this set on their PS Log Sheet. Record as year/month/date.

<b>SET SEQUENCE</b>	<b>BEGIN SET (S KIFF OFF)</b>	Exact same time as recorded on the daily log (PS-2) and in the "Observer Start of Set Date and Time" section, above.
	<b>BEGIN PURSING (WINCH ON)</b>	The purse wire will be thrown to the vessel from the skiff, and it will then be attached to the winch. Record the time the winch is switched on.
	<b>END PURSING (RINGS UP)</b>	During the winching, a bunch of rings will come on board. Record the time when the last of the rings appears. This indicates the net has totally enclosed (pursed) the fish and they cannot escape.
	<b>BEGIN BRAILING</b>	Record the time the vessel starts the brailing process. This will have been recorded on the PS-4 form. If there was no brailing just record a dash
	<b>END BRAILING / SACK ONBOARD</b>	Record the time when the vessel finishes brailing. If there was no brailing record the time that the sack was lifted up on to the deck.
	<b>END SET (NEXT ACTIVITY START)</b>	Next activity START marks end of set (no later than 'skiff comes on board'). Record the activity change on PS-2.

<b>TOTAL CATCH and TOTAL TUNA CATCH</b>	
<b>Brail Capacity</b>	Find on the PS-1. Use to calculate total catch. <b>'Brail capacity' x 'Sum of all brails' = 'TOTAL CATCH'</b>
<b>Sum of all brails</b>	After calculating the total number of brails on the PS-4 form (for the same set) transfer your answer here.
Type 1 and	... if a 2nd brail type is also used for this set samples, estimates of the brail capacity for both brail types must be made. Fill the 'brail capacity' and the 'sum of all brail' fields for both the 'type 1' and the 'type 2' brails.
Type 2 brails	Add calculations of total catch from each brail type together to get a single "TOTAL CATCH" figure. (If there is no 'type 2' brail (which is normal) then simply record a dash in each of the 'type 2' fields and all other calculations will be based only on the 'type 1' brail information that is provided.)
<b>TOTAL CATCH</b>	This is the combined weight of all the (target and bycatch species) fish brought onboard.
<b>less bycatch</b>	Calculate the amount of bycatch (in mT) that is in the catch in the bycatch area below and transfer to this field
<b>TOTAL TUNA CATCH</b>	Subtract the total amount of bycatch from the TOTAL CATCH to get TOTAL TUNA CATCH. This includes all tuna caught whether or not it is later discarded. It does not include tuna that escaped <b>alive</b> from net.

<b>OBSERVER'S BREAKDOWN of TOTAL TUNA CAUGHT</b>	<b>YES or NO</b>	YES' or NO' <b>must</b> be circled to show if SKJ, small YFT, large YFT, small BET, large BET were even seen in the catch
<b>%</b>		Carefully eye-estimate the <b>percentage of the TOTAL TUNA</b> for each species (+ each size category for YFT and BET) N.B.: % of small (or large) YFT (or BET) is the % of <b>TOTAL TUNA</b> ! NOT % of that species of tuna.
<b>Number</b>		If there are not many large YFT or BET and good estimate of number can be made record number of large YFT (or BET) If a <b>good</b> estimate (counts) is not easy, dash the 'number' field. <b>Do not</b> make a rough estimate !

<b>SET CATCH DETAILS</b>	<b>BY-CATCH SPECIES CODE</b>	Record every species that lands on deck with the three letter FAO species code.
	<b>FATE CODE</b>	Use fate codes provided to say what happened to each species landed Use 1 line per species/fate group. Remember that a species may be split into groups each with a different fate code. Eg: RRU RWW 2 mT <b>REMEMBER</b> - use only one (the best and most informative) code for each line. RRU DTS 0.5 mT <b>NEW 2014:</b> Use the SSI FATE CODES FOR ALL SHARKS to indicate 'live' status. Use 'RFR' / 'DFR' in comments if finning observed).
	<b>OBSERVER</b>	
	<b>(mT)</b>	Calculate the amount of each species caught, in each fate code category, using an appropriate assessment technique. Use mT. For instance if 300 kg of Mahi mahi and 40 kg of wahoo were caught - record 0.3 mt DOL /0.04 mt WAH
	<b>Number</b>	Only record a number if an accurate count is possible. Large amounts are recorded in "mT". If possible record both.
	<b>VESSEL LOG</b>	
<b>(mT)</b>	Copy the figures recorded by the ship's officers on the Vessel Logsheet, for this set.	
<b>Number</b>	Place a dash in the column if they have not recorded the species.	
<b>Total weight of bycatch</b>	Calculate from the fields above for observer (important for use in 'Total Tuna' calculation) and vessel bycatch estimates	

<b>TAGS</b>	<b>TARGET TUNA</b>	
	<b>A. OBSERVER estimates of total caught</b>	Calculate the combined large and small <b>% x Total tuna catch</b> for each species (SKJ, YFT and BET)
	<b>FATE</b>	Record fate of discarded tuna or tuna retained for crew consumption (RCC), using fate codes listed at bottom of form
	<b>OBS (mT)</b>	Give a careful approximation (eye-estimate) of the total amount of catch for the relevant fate /species code combination. Record the amounts in metric tonnes.
	<b>VES (mT)</b>	Copy the weight, as recorded for each species in the vessel's logsheet. If nothing is recorded in the logsheet place a dash in the data field. If "0" is recorded on the logsheet record "0" here. <b>Record in metric tonnes.</b> Eg.: If amount on logsheet is in short tons this <b>MUST</b> be converted to metric tonnes.
	<b>B. OBSERVER totals (mT) discards + RCC</b>	For each species add together the mT amounts that are recorded in the rows 'a.', 'b.' and 'c' to get the total of all the discarded and the retained for crew consumption (RCC) combined for that species.
	<b>Tuna kept onboard for later unload</b>	Usually tuna are retained whole weight (RWW). If so then RWW can be calculated as (A. - B.) for each species. If tuna is otherwise retained onboard for later unload (fate = R??) then A. - B. = the combined total of RWW + R??
	<b>Due to gear break / bycatch mitigation</b>	ESC Best observer estimate of mT of any live tuna that escaped during set. Refer to Captain for any tuna seen escaping via sonar. Include any live tuna escaped from gear breakage or because vessel tries to release important bycatch. N.B. This does not include dead tuna that are released from the net after a breakdown during or after net sac-up = discards.
	<b>How many tags were recovered? species and tag numbers</b>	Note the number of tags found from in this set. Look out for tags on tuna, billfish, sharks, turtles, birds, etc. Record <b>tag number</b> and <b>species</b> . Note tag colour, tagging organisation and any unusual features about condition. Fill these and other tag details into the tag recovery form (and GEN-2 form if necessary).

# SPC/FFA REGIONAL PURSE SEINE OBSERVER SET DETAILS

**FORM PS - 3**

REV. MAR. 2014

OBSERVER NAME	VESSEL NAME	PAGE _____ OF _____ (SET No.)
OBSERVER TRIP I.D. NUMBER	START OF SET DATE AND TIME OBSERVER: YY MM DD hh mm (see PS-2)	START OF SET DATE AND TIME VESSEL LOG: YY MM DD hh mm

SET SEQUENCE TIMES						
EVENT:	START OF SET (SKIFF OFF)	BEGIN PURSING (WINCH ON)	END PURSING (RINGS UP)	BEGIN BRAILING	END OF BRAILING / SACK ONBOARD	END OF SET (NEXT ACTIVITY START)
TIME:						

SET CATCH DETAILS													
OBSERVER'S BREAKDOWN OF TOTAL TUNA CAUGHT <small>- circle YES or NO for each species</small>										N.B.: these calculations include all the tuna in this catch, whether retained or discarded			
brail capacity ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT <small>Type 1 brail (see PS-1 form)</small>		sum of all brails ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT <small>(see PS-4 form)</small>		Total catch less bycatch (see below) = Total tuna catch <input type="text"/> mT		<b>SKIP-JACK</b>		<b>YELLOWFIN</b> SMALL (< 75 cm)      LARGE (> 75 cm)			<b>BIGEYE</b> SMALL (< 75 cm)      LARGE (> 75 cm)		
YES	(%)	YES	(%)	YES	(%)	NUMBER	YES	(%)	YES	(%)	NUMBER		
NO		NO		NO			NO		NO				

BY-CATCH (ALL NON-TARGET SPECIES)						TARGET TUNA					
SPECIES CODE	FATE CODE	OBSERVER No. (mT)	VESSEL LOG No. (mT)	COMMENTS		SKJ	YFT	BET			
A. OBSERVER estimates of total of each species caught (mT)						Observer	FATE				
							a. (mT)				
						Vessel	FATE				
							(mT)				
						Observer	FATE				
							b. (mT)				
						Vessel	FATE				
							(mT)				
						Observer	FATE				
							c. (mT)				
						Vessel	FATE				
							(mT)				
Total weight of bycatch: _____ mT						B. OBSERVER totals (mT) discards + RCC (a+b+c):					
Comments						Tuna kept onboard for later unload if not RWW	FATE				
							OBS (mT)				
							VES (mT)				
						estimates	FATE	RWW	RWW	RWW	
							OBS (mT)				
							VES (mT)				
						Due to gear break / bycatch mitigation		ESC	ESC	ESC	
								OBS (mT)			
								VES (mT)			
<b>TAGS - How many Tags were recovered?</b>			<small>Record species and tag numbers. Fill tag recovery forms!</small>								

FATE CODES			
RWW	Retained - whole weight	DFR	Discarded trunk - fins retained (shark only)
RHG	Retained - headed and gutted (billfish only)	DTS	Discarded - too small (tuna only)
RGG	Retained - gilled and gutted (kept for sale)	DGD	Discarded - gear damage (tuna only)
RPT	Retained - partial (e.g. fillet, loin)	DVF	Discarded - vessel fully loaded
RCC	Retained - crew consumption (onboard)	DUS	Discarded - unwanted species
ROR	Retained - other reason (specify)	DSD	Discarded - shark damage
RFR	Retained trunk - fins retained (shark only)	DWD	Discarded - whale damage
DPA	Discarded SSI - alive	DPA	
DPD	(species of special interest) - dead	DPD	
DPU	- unknown condition	DPU	
DPQ	Discarded - poor quality		
DOR	Discarded - other reasons (specify)		
ESC	= Escaped		

(A PS-3 form **must** be filled out for the first and every set (recorded as *activity code 1* on PS-2) - whether monitored or not, even if a skunk set.) (For the very rare occasion that a set is not monitored the column for the vessel's estimate of catch must still be completed.) (N.B.: A PS-4 form is not required for skunk set.)

<b>OBSERVER NAME</b>	Print first name first and last name last. Eg.: "John Smith" not "Smith John". Print clearly !
<b>VESSEL NAME</b>	Full unabbreviated name. Eg.: a boat with name "Captain Paul Catchit" should not be abbreviated to Capt. P.Catchit.
<b>PAGE OF</b>	Number each PS-3 form from start until end of trip. Because one PS-3 is used for every set this is also the set No.
<b>OBSERVER TRIP ID No.</b>	This number is the same on all forms for a single observer trip.
<b>START of SET</b> Observer (PS-2)	The exact date and time that the observer recorded for this set on the PS-2. Record as year/month/day.
<b>DATE and TIME</b> Vessel (logsheet)	The exact date and time that the vessel has recorded for this set on their PS Log Sheet. Record as year/month/date.

<b>SET SEQUENCE</b>	<b>BEGIN SET (S KIFF OFF)</b>	Exact same time as recorded on the daily log (PS-2) and in the "Observer Start of Set Date and Time" section, above.
	<b>BEGIN PURSING (WINCH ON)</b>	The purse wire will be thrown to the vessel from the skiff, and it will then be attached to the winch. Record the time the winch is switched on.
	<b>END PURSING (RINGS UP)</b>	During the winching, a bunch of rings will come on board. Record the time when the last of the rings appears. This indicates the net has totally enclosed (pursed) the fish and they cannot escape.
	<b>BEGIN BRAILING</b>	Record the time the vessel starts the brailing process. This will have been recorded on the PS-4 form. If there was no brailing just record a dash
	<b>END BRAILING / SACK ONBOARD</b>	Record the time when the vessel finishes brailing. If there was no brailing record the time that the sack was lifted up on to the deck.
	<b>END SET (NEXT ACTIVITY START)</b>	Next activity START marks end of set (no later than 'skiff comes on board'). Record the activity change on PS-2.

<b>TOTAL CATCH and TOTAL TUNA CATCH</b>	
<b>Brail Capacity</b>	Find on the PS-1. Use to calculate total catch. <b>'Brail capacity' x 'Sum of all brails' = 'TOTAL CATCH'</b>
<b>Sum of all brails</b>	After calculating the total number of brails on the PS-4 form (for the same set) transfer your answer here.
Type 1 and Type 2 brails	... if a 2nd brail type is also used for this set samples, estimates of the brail capacity for both brail types must be made. Fill the 'brail capacity' and the 'sum of all brail' fields for both the 'type 1' and the 'type 2' brails. Add calculations of total catch from each brail type together to get a single "TOTAL CATCH" figure. (If there is no 'type 2' brail (which is normal) then simply record a dash in each of the 'type 2' fields and all other calculations will be based only on the 'type 1' brail information that is provided.)
<b>TOTAL CATCH less bycatch</b>	This is the combined weight of all the (target and bycatch species) fish brought onboard. Calculate the amount of bycatch (in mT) that is in the catch in the bycatch area below and transfer to this field
<b>TOTAL TUNA CATCH</b>	Subtract the total amount of bycatch from the TOTAL CATCH to get TOTAL TUNA CATCH. This includes all tuna caught whether or not it is later discarded. It does not include tuna that escaped <b>alive</b> from net.

<b>OBSERVER'S BREAKDOWN of TOTAL TUNA CAUGHT</b>	<b>YES or NO</b>	YES' or NO' <b>must</b> be circled to show if SKJ, small YFT, large YFT, small BET, large BET were even seen in the catch
<b>%</b>		Carefully eye-estimate the <b>percentage of the TOTAL TUNA</b> for each species (+ each size category for YFT and BET) N.B.: % of small (or large) YFT (or BET) is the % of <b>TOTAL TUNA</b> ! NOT % of that species of tuna.
<b>Number</b>		If there are not many large YFT or BET and good estimate of number can be made record number of large YFT (or BET) If a <b>good</b> estimate (counts) is not easy, dash the 'number' field. <b>Do not</b> make a rough estimate !

<b>SET CATCH DETAILS</b>	<b>BY-CATCH SPECIES CODE</b>	Record every species that lands on deck with the three letter FAO species code.
	<b>FATE CODE</b>	Use fate codes provided to say what happened to each species landed Use 1 line per species/fate group. Remember that a species may be split into groups each with a different fate code. Eg: RRU RWW 2 mT <b>REMEMBER</b> - use only one (the best and most informative) code for each line. RRU DTS 0.5 mT <b>NEW 2014:</b> Use the SSI FATE CODES FOR ALL SHARKS to indicate 'live' status. Use 'RFR' / 'DFR' in comments if finning observed).
	<b>OBSERVER (mT)</b>	Calculate the amount of each species caught, in each fate code category, using an appropriate assessment technique. Use mT. For instance if 300 kg of Mahi mahi and 40 kg of wahoo were caught - record 0.3 mt DOL /0.04 mt WAH
	<b>Number</b>	Only record a number if an accurate count is possible. Large amounts are recorded in "mT". If possible record both.
	<b>VESSEL LOG (mT)</b>	Copy the figures recorded by the ship's officers on the Vessel Logsheet, for this set.
	<b>Number</b>	Place a dash in the column if they have not recorded the species.
<b>Total weight of bycatch</b>	Calculate from the fields above for observer (important for use in 'Total Tuna' calculation) and vessel bycatch estimates	

<b>TAGS</b>	<b>TARGET TUNA</b>	
	<b>A. OBSERVER estimates of total caught</b>	Calculate the combined large and small <b>% x Total tuna catch</b> for each species (SKJ, YFT and BET)
	<b>FATE</b>	Record fate of discarded tuna or tuna retained for crew consumption (RCC), using fate codes listed at bottom of form
	<b>OBS (mT)</b>	Give a careful approximation (eye-estimate) of the total amount of catch for the relevant fate /species code combination. Record the amounts in metric tonnes.
	<b>VES (mT)</b>	Copy the weight, as recorded for each species in the vessel's logsheet. If nothing is recorded in the logsheet place a dash in the data field. If "0" is recorded on the logsheet record "0" here. <b>Record in metric tonnes.</b> Eg.: If amount on logsheet is in short tons this <b>MUST</b> be converted to metric tonnes.
	<b>B. OBSERVER totals (mT) discards + RCC</b>	For each species add together the mT amounts that are recorded in the rows 'a.', 'b.' and 'c' to get the total of all the discarded and the retained for crew consumption (RCC) combined for that species.
	<b>Tuna kept onboard for later unload</b>	Usually tuna are retained whole weight (RWW). If so then RWW can be calculated as (A. - B.) for each species. If tuna is otherwise retained onboard for later unload (fate = R??) then A. - B. = the combined total of RWW + R??
	<b>Due to gear break / bycatch mitigation</b>	ESC Best observer estimate of mT of any live tuna that escaped during set. Refer to Captain for any tuna seen escaping via sonar. Include any live tuna escaped from gear breakage or because vessel tries to release important bycatch. N.B. This does not include dead tuna that are released from the net after a breakdown during or after net sac-up = discards.
	<b>How many tags were recovered? species and tag numbers</b>	Note the number of tags found from in this set. Look out for tags on tuna, billfish, sharks, turtles, birds, etc. Record <b>tag number</b> and <b>species</b> . Note tag colour, tagging organisation and any unusual features about condition. Fill these and other tag details into the tag recovery form (and GEN-2 form if necessary).

# SPC/FFA REGIONAL PURSE SEINE OBSERVER SET DETAILS

**FORM PS - 3**

REV. MAR. 2014

OBSERVER NAME	VESSEL NAME	PAGE _____ OF _____ (SET No.)
OBSERVER TRIP I.D. NUMBER	START OF SET DATE AND TIME OBSERVER: YY MM DD hh mm (see PS-2)	START OF SET DATE AND TIME VESSEL LOG: YY MM DD hh mm

SET SEQUENCE TIMES						
EVENT:	START OF SET (SKIFF OFF)	BEGIN PURSING (WINCH ON)	END PURSING (RINGS UP)	BEGIN BRAILING	END OF BRAILING / SACK ONBOARD	END OF SET (NEXT ACTIVITY START)
TIME:						

SET CATCH DETAILS													
OBSERVER'S BREAKDOWN OF TOTAL TUNA CAUGHT <small>- circle YES or NO for each species</small>										N.B.: these calculations include all the tuna in this catch, whether retained or discarded			
brail capacity ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT <small>Type 1 brail (see PS-1 form)</small>		sum of all brails ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT <small>(see PS-4 form)</small>		Total catch less bycatch (see below) = Total tuna catch <input type="text"/> mT		<b>SKIP-JACK</b>		<b>YELLOWFIN</b> SMALL (< 75 cm)      LARGE (> 75 cm)			<b>BIGEYE</b> SMALL (< 75 cm)      LARGE (> 75 cm)		
YES	(%)	YES	(%)	YES	(%)	NUMBER	YES	(%)	YES	(%)	NUMBER		
NO		NO		NO			NO		NO				

BY-CATCH (ALL NON-TARGET SPECIES)						TARGET TUNA			
SPECIES CODE	FATE CODE	OBSERVER No. (mT)	VESSEL LOG No. (mT)	COMMENTS	A. OBSERVER estimates of total of each species caught (mT)	SKJ	YFT	BET	
					Observer	FATE			
						a. (mT)			
					Vessel	FATE			
						(mT)			
					Observer	FATE			
						b. (mT)			
					Vessel	FATE			
						(mT)			
					Observer	FATE			
						c. (mT)			
					Vessel	FATE			
						(mT)			
Total weight of bycatch: _____ mT					B. OBSERVER totals (mT) discards + RCC (a+b+c):				
Comments					Tuna kept onboard for later unload if not RWW	FATE			
						OBS (mT)			
						VES (mT)			
					FATE	RWW	RWW	RWW	
					estimates	OBS (mT)			
						VES (mT)			
<b>TAGS - How many Tags were recovered?</b>					<small>Record species and tag numbers. Fill tag recovery forms!</small>				

FATE CODES			
RWW	Retained - whole weight	DFR	Discarded trunk - fins retained (shark only)
RHG	Retained - headed and gutted (billfish only)	DTS	Discarded - too small (tuna only)
RGG	Retained - gilled and gutted (kept for sale)	DGD	Discarded - gear damage (tuna only)
RPT	Retained - partial (e.g. fillet, loin)	DVF	Discarded - vessel fully loaded
RCC	Retained - crew consumption (onboard)	DUS	Discarded - unwanted species
ROR	Retained - other reason (specify)	DSD	Discarded - shark damage
RFR	Retained trunk - fins retained (shark only)	DWD	Discarded - whale damage
DPA	Discarded SSI - alive	DPA	
DPD	(species of special interest) - dead	DPD	
DPU	- unknown condition	DPU	
DPQ	Discarded - poor quality		
DOR	Discarded - other reasons (specify)		
ESC	= Escaped		



(A PS-3 form **must** be filled out for the first and every set (recorded as *activity code 1* on PS-2) - whether monitored or not, even if a skunk set.) (For the very rare occasion that a set is not monitored the column for the vessel's estimate of catch must still be completed.) (N.B.: A PS-4 form is not required for skunk set.)

<b>OBSERVER NAME</b>	Print first name first and last name last. Eg.: "John Smith" not "Smith John". Print clearly !
<b>VESSEL NAME</b>	Full unabbreviated name. Eg.: a boat with name "Captain Paul Catchit" should not be abbreviated to Capt. P.Catchit.
<b>PAGE OF</b>	Number each PS-3 form from start until end of trip. Because one PS-3 is used for every set this is also the set No.
<b>OBSERVER TRIP ID No.</b>	This number is the same on all forms for a single observer trip.
<b>START of SET</b> Observer (PS-2)	The exact date and time that the observer recorded for this set on the PS-2. Record as year/month/day.
<b>DATE and TIME</b> Vessel (logsheet)	The exact date and time that the vessel has recorded for this set on their PS Log Sheet. Record as year/month/date.

<b>SET SEQUENCE</b>	<b>BEGIN SET (S KIFF OFF)</b>	Exact same time as recorded on the daily log (PS-2) and in the "Observer Start of Set Date and Time" section, above.
	<b>BEGIN PURSING (WINCH ON)</b>	The purse wire will be thrown to the vessel from the skiff, and it will then be attached to the winch. Record the time the winch is switched on.
	<b>END PURSING (RINGS UP)</b>	During the winching, a bunch of rings will come on board. Record the time when the last of the rings appears. This indicates the net has totally enclosed (pursed) the fish and they cannot escape.
	<b>BEGIN BRAILING</b>	Record the time the vessel starts the brailing process. This will have been recorded on the PS-4 form. If there was no brailing just record a dash
	<b>END BRAILING / SACK ONBOARD</b>	Record the time when the vessel finishes brailing. If there was no brailing record the time that the sack was lifted up on to the deck.
	<b>END SET (NEXT ACTIVITY START)</b>	Next activity START marks end of set (no later than 'skiff comes on board'). Record the activity change on PS-2.

<b>TOTAL CATCH and TOTAL TUNA CATCH</b>	
<b>Brail Capacity</b>	Find on the PS-1. Use to calculate total catch. <b>'Brail capacity' x 'Sum of all brails' = 'TOTAL CATCH'</b>
<b>Sum of all brails</b>	After calculating the total number of brails on the PS-4 form (for the same set) transfer your answer here.
Type 1 and Type 2 brails	... if a 2nd brail type is also used for this set samples, estimates of the brail capacity for both brail types must be made. Fill the 'brail capacity' and the 'sum of all brail' fields for both the 'type 1' and the 'type 2' brails. Add calculations of total catch from each brail type together to get a single "TOTAL CATCH" figure. (If there is no 'type 2' brail (which is normal) then simply record a dash in each of the 'type 2' fields and all other calculations will be based only on the 'type 1' brail information that is provided.)
<b>TOTAL CATCH less bycatch</b>	This is the combined weight of all the (target and bycatch species) fish brought onboard. Calculate the amount of bycatch (in mT) that is in the catch in the bycatch area below and transfer to this field
<b>TOTAL TUNA CATCH</b>	Subtract the total amount of bycatch from the TOTAL CATCH to get TOTAL TUNA CATCH. This includes all tuna caught whether or not it is later discarded. It does not include tuna that escaped <b>alive</b> from net.

<b>OBSERVER'S BREAKDOWN of TOTAL TUNA CAUGHT</b>	<b>YES or NO</b>	YES' or NO' <b>must</b> be circled to show if SKJ, small YFT, large YFT, small BET, large BET were even seen in the catch
<b>%</b>		Carefully eye-estimate the <b>percentage of the TOTAL TUNA</b> for each species (+ each size category for YFT and BET) N.B.: % of small (or large) YFT (or BET) is the % of <b>TOTAL TUNA</b> ! NOT % of that species of tuna.
<b>Number</b>		If there are not many large YFT or BET and good estimate of number can be made record number of large YFT (or BET) If a <b>good</b> estimate (counts) is not easy, dash the 'number' field. <b>Do not</b> make a rough estimate !

<b>SET CATCH DETAILS</b>	<b>BY-CATCH SPECIES CODE</b>	Record every species that lands on deck with the three letter FAO species code.
	<b>FATE CODE</b>	Use fate codes provided to say what happened to each species landed Use 1 line per species/fate group. Remember that a species may be split into groups each with a different fate code. Eg: RRU RWW 2 mT <b>REMEMBER</b> - use only one (the best and most informative) code for each line. RRU DTS 0.5 mT <b>NEW 2014:</b> Use the SSI FATE CODES FOR ALL SHARKS to indicate 'live' status. Use 'RFR' / 'DFR' in comments if finning observed).
	<b>OBSERVER (mT)</b>	Calculate the amount of each species caught, in each fate code category, using an appropriate assessment technique. Use mT. For instance if 300 kg of Mahi mahi and 40 kg of wahoo were caught - record 0.3 mt DOL /0.04 mt WAH
	<b>Number</b>	Only record a number if an accurate count is possible. Large amounts are recorded in "mT". If possible record both.
	<b>VESSEL LOG (mT)</b>	Copy the figures recorded by the ship's officers on the Vessel Logsheet, for this set.
	<b>Number</b>	Place a dash in the column if they have not recorded the species.
<b>Total weight of bycatch</b>	Calculate from the fields above for observer (important for use in 'Total Tuna' calculation) and vessel bycatch estimates	

<b>TAGS</b>	<b>TARGET TUNA</b>	
	<b>A. OBSERVER estimates of total caught</b>	Calculate the combined large and small <b>% x Total tuna catch</b> for each species (SKJ, YFT and BET)
	<b>FATE</b>	Record fate of discarded tuna or tuna retained for crew consumption (RCC), using fate codes listed at bottom of form
	<b>OBS (mT)</b>	Give a careful approximation (eye-estimate) of the total amount of catch for the relevant fate /species code combination. Record the amounts in metric tonnes.
	<b>VES (mT)</b>	Copy the weight, as recorded for each species in the vessel's logsheet. If nothing is recorded in the logsheet place a dash in the data field. If "0" is recorded on the logsheet record "0" here. <b>Record in metric tonnes.</b> Eg.: If amount on logsheet is in short tons this <b>MUST</b> be converted to metric tonnes.
	<b>B. OBSERVER totals (mT) discards + RCC</b>	For each species add together the mT amounts that are recorded in the rows 'a.', 'b.' and 'c' to get the total of all the discarded and the retained for crew consumption (RCC) combined for that species.
	<b>Tuna kept onboard for later unload</b>	Usually tuna are retained whole weight (RWW). If so then RWW can be calculated as (A. - B.) for each species. If tuna is otherwise retained onboard for later unload (fate = R??) then A. - B. = the combined total of RWW + R??
	<b>Due to gear break / bycatch mitigation</b>	ESC Best observer estimate of mT of any live tuna that escaped during set. Refer to Captain for any tuna seen escaping via sonar. Include any live tuna escaped from gear breakage or because vessel tries to release important bycatch. N.B. This does not include dead tuna that are released from the net after a breakdown during or after net sac-up = discards.
	<b>How many tags were recovered? species and tag numbers</b>	Note the number of tags found from in this set. Look out for tags on tuna, billfish, sharks, turtles, birds, etc. Record <b>tag number</b> and <b>species</b> . Note tag colour, tagging organisation and any unusual features about condition. Fill these and other tag details into the tag recovery form (and GEN-2 form if necessary).



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<b>OBSERVER NAME</b>	Print first name first and last name last. Eg.: "John Smith" not "Smith John". Print clearly !
<b>VESSEL NAME</b>	Full unabbreviated name. Eg.: a boat with name "Captain Paul Catchit" should not be abbreviated to Capt. P.Catchit.
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<b>Brail Capacity</b>	Find on the PS-1. Use to calculate total catch. <b>'Brail capacity' x 'Sum of all brails' = 'TOTAL CATCH'</b>
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<b>OBSERVER'S BREAKDOWN of TOTAL TUNA CAUGHT</b>	<b>YES or NO</b>	YES' or NO' <b>must</b> be circled to show if SKJ, small YFT, large YFT, small BET, large BET were even seen in the catch
<b>%</b>		Carefully eye-estimate the <b>percentage of the TOTAL TUNA</b> for each species (+ each size category for YFT and BET) N.B.: % of small (or large) YFT (or BET) is the % of <b>TOTAL TUNA</b> ! NOT % of that species of tuna.
<b>Number</b>		If there are not many large YFT or BET and good estimate of number can be made record number of large YFT (or BET) If a <b>good</b> estimate (counts) is not easy, dash the 'number' field. <b>Do not</b> make a rough estimate !

<b>SET CATCH DETAILS</b>	<b>BY-CATCH SPECIES CODE</b>	Record every species that lands on deck with the three letter FAO species code.
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	<b>OBSERVER (mT)</b>	Calculate the amount of each species caught, in each fate code category, using an appropriate assessment technique. Use mT. For instance if 300 kg of Mahi mahi and 40 kg of wahoo were caught - record 0.3 mt DOL /0.04 mt WAH
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<b>TAGS</b>	<b>TARGET TUNA</b>	
	<b>A. OBSERVER estimates of total caught</b>	Calculate the combined large and small <b>% x Total tuna catch</b> for each species (SKJ, YFT and BET)
	<b>FATE</b>	Record fate of discarded tuna or tuna retained for crew consumption (RCC), using fate codes listed at bottom of form
	<b>OBS (mT)</b>	Give a careful approximation (eye-estimate) of the total amount of catch for the relevant fate /species code combination. Record the amounts in metric tonnes.
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	<b>B. OBSERVER totals (mT) discards + RCC</b>	For each species add together the mT amounts that are recorded in the rows 'a.', 'b.' and 'c' to get the total of all the discarded and the retained for crew consumption (RCC) combined for that species.
	<b>Tuna kept onboard for later unload</b>	Usually tuna are retained whole weight (RWW). If so then RWW can be calculated as (A. - B.) for each species. If tuna is otherwise retained onboard for later unload (fate = R??) then A. - B. = the combined total of RWW + R??
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# SPC/FFA REGIONAL PURSE SEINE OBSERVER SET DETAILS

**FORM PS - 3**

REV. MAR. 2014

OBSERVER NAME	VESSEL NAME	PAGE _____ OF _____ (SET No.)
OBSERVER TRIP I.D. NUMBER	START OF SET DATE AND TIME OBSERVER: YY MM DD hh mm (see PS-2)	START OF SET DATE AND TIME VESSEL LOG: YY MM DD hh mm

SET SEQUENCE TIMES						
EVENT:	START OF SET (SKIFF OFF)	BEGIN PURSING (WINCH ON)	END PURSING (RINGS UP)	BEGIN BRAILING	END OF BRAILING / SACK ONBOARD	END OF SET (NEXT ACTIVITY START)
TIME:						

SET CATCH DETAILS													
OBSERVER'S BREAKDOWN OF TOTAL TUNA CAUGHT <small>- circle YES or NO for each species</small>										N.B.: these calculations include all the tuna in this catch, whether retained or discarded			
<b>brail capacity</b> ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT <small>Type 1 brail (see PS-1 form)</small>		<b>sum of all brails</b> ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT <small>(see PS-4 form)</small>		<b>Total catch</b> less bycatch (see below) <input type="text"/> mT = <b>Total tuna catch</b> <input type="text"/> mT		<b>SKIP-JACK</b> YES (%) NO <input type="checkbox"/>		<b>YELLOWFIN</b> SMALL (< 75 cm) YES (%) NO <input type="checkbox"/>		<b>BIGEYE</b> SMALL (< 75 cm) YES (%) NO <input type="checkbox"/>		LARGE (> 75 cm) YES (%) NO <input type="checkbox"/>	
( <input type="text"/> mT x <input type="text"/> ) + ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT <small>type 2 brail</small>													

BY-CATCH (ALL NON-TARGET SPECIES)						TARGET TUNA					
SPECIES CODE	FATE CODE	OBSERVER No. (mT)	VESSEL LOG No. (mT)	COMMENTS	A. OBSERVER estimates of total of each species caught (mT)	SKJ	YFT	BET			
					Observer	FATE					
					Observer	a. (mT)					
					Vessel	FATE					
					Vessel	(mT)					
					Observer	FATE					
					Observer	b. (mT)					
					Vessel	FATE					
					Vessel	(mT)					
					Observer	FATE					
					Observer	c. (mT)					
					Vessel	FATE					
					Vessel	(mT)					
Total weight of bycatch: _____ mT					B. OBSERVER totals (mT) discards + RCC (a+b+c): _____						
Comments						Tuna kept onboard for later unload if not RWW	FATE				
							OBS (mT)				
							VES (mT)				
						FATE	RWW	RWW	RWW		
						OBS (mT)					
						VES (mT)					
						Due to gear break / bycatch mitigation			ESC	ESC	ESC
						estimates	OBS (mT)				
							VES (mT)				
TAGS - How many Tags were recovered?			Record species and tag numbers. Fill tag recovery forms!								

FATE CODES			
RWW	Retained - whole weight	DFR	Discarded trunk - fins retained (shark only)
RHG	Retained - headed and gutted (billfish only)	DTS	Discarded - too small (tuna only)
RGG	Retained - gilled and gutted (kept for sale)	DGD	Discarded - gear damage (tuna only)
RPT	Retained - partial (e.g. fillet, loin)	DVF	Discarded - vessel fully loaded
RCC	Retained - crew consumption (onboard)	DUS	Discarded - unwanted species
ROR	Retained - other reason (specify)	DSD	Discarded - shark damage
RFR	Retained trunk - fins retained (shark only)	DWD	Discarded - whale damage
DPA	Discarded SSI - alive	DPA	
DPD	(species of special interest) - dead	DPD	
DPU	- unknown condition	DPU	
DPQ	Discarded - poor quality		
DOR	Discarded - other reasons (specify)		
ESC	= Escaped		

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<b>OBSERVER NAME</b>	Print first name first and last name last. Eg.: "John Smith" not "Smith John". Print clearly !
<b>VESSEL NAME</b>	Full unabbreviated name. Eg.: a boat with name "Captain Paul Catchit" should not be abbreviated to Capt. P.Catchit.
<b>PAGE OF</b>	Number each PS-3 form from start until end of trip. Because one PS-3 is used for every set this is also the set No.
<b>OBSERVER TRIP ID No.</b>	This number is the same on all forms for a single observer trip.
<b>START of SET</b> Observer (PS-2)	The exact date and time that the observer recorded for this set on the PS-2. Record as year/month/day.
<b>DATE and TIME</b> Vessel (logsheet)	The exact date and time that the vessel has recorded for this set on their PS Log Sheet. Record as year/month/date.

<b>SET SEQUENCE</b>	<b>BEGIN SET (S KIFF OFF)</b>	Exact same time as recorded on the daily log (PS-2) and in the "Observer Start of Set Date and Time" section, above.
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<b>TOTAL CATCH and TOTAL TUNA CATCH</b>	
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Type 2 brails	Add calculations of total catch from each brail type together to get a single "TOTAL CATCH" figure. (If there is no 'type 2' brail (which is normal) then simply record a dash in each of the 'type 2' fields and all other calculations will be based only on the 'type 1' brail information that is provided.)
<b>TOTAL CATCH</b>	This is the combined weight of all the (target and bycatch species) fish brought onboard.
<b>less bycatch</b>	Calculate the amount of bycatch (in mT) that is in the catch in the bycatch area below and transfer to this field
<b>TOTAL TUNA CATCH</b>	Subtract the total amount of bycatch from the TOTAL CATCH to get TOTAL TUNA CATCH. This includes all tuna caught whether or not it is later discarded. It does not include tuna that escaped <b>alive</b> from net.

<b>OBSERVER'S BREAKDOWN of TOTAL TUNA CAUGHT</b>	<b>YES or NO</b>	YES' or NO' <b>must</b> be circled to show if SKJ, small YFT, large YFT, small BET, large BET were even seen in the catch
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	<b>OBSERVER</b>	
	<b>(mT)</b>	Calculate the amount of each species caught, in each fate code category, using an appropriate assessment technique. Use mT. For instance if 300 kg of Mahi mahi and 40 kg of wahoo were caught - record 0.3 mt DOL /0.04 mt WAH
	<b>Number</b>	Only record a number if an accurate count is possible. Large amounts are recorded in "mT". If possible record both.
	<b>VESSEL LOG</b>	
<b>(mT)</b>	Copy the figures recorded by the ship's officers on the Vessel Logsheet, for this set.	
<b>Number</b>	Place a dash in the column if they have not recorded the species.	
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	<b>VES (mT)</b>	Copy the weight, as recorded for each species in the vessel's logsheet. If nothing is recorded in the logsheet place a dash in the data field. If "0" is recorded on the logsheet record "0" here. <b>Record in metric tonnes.</b> Eg.: If amount on logsheet is in short tons this <b>MUST</b> be converted to metric tonnes.
	<b>B. OBSERVER totals (mT) discards + RCC</b>	For each species add together the mT amounts that are recorded in the rows 'a.', 'b.' and 'c' to get the total of all the discarded and the retained for crew consumption (RCC) combined for that species.
	<b>Tuna kept onboard for later unload</b>	Usually tuna are retained whole weight (RWW). If so then RWW can be calculated as (A. - B.) for each species. If tuna is otherwise retained onboard for later unload (fate = R??) then A. - B. = the combined total of RWW + R??
	<b>Due to gear break / bycatch mitigation</b>	ESC Best observer estimate of mT of any live tuna that escaped during set. Refer to Captain for any tuna seen escaping via sonar. Include any live tuna escaped from gear breakage or because vessel tries to release important bycatch. N.B. This does not include dead tuna that are released from the net after a breakdown during or after net sac-up = discards.
	<b>How many tags were recovered? species and tag numbers</b>	Note the number of tags found from in this set. Look out for tags on tuna, billfish, sharks, turtles, birds, etc. Record <b>tag number</b> and <b>species</b> . Note tag colour, tagging organisation and any unusual features about condition. Fill these and other tag details into the tag recovery form (and GEN-2 form if necessary).



# SPC/FFA REGIONAL PURSE SEINE OBSERVER SET DETAILS

**FORM PS - 3**

REV. MAR. 2014

OBSERVER NAME	VESSEL NAME	PAGE _____ OF _____ (SET No.)
OBSERVER TRIP I.D. NUMBER	START OF SET DATE AND TIME OBSERVER: (see PS-2) YY MM DD hh mm	START OF SET DATE AND TIME VESSEL LOG: YY MM DD hh mm

SET SEQUENCE TIMES						
EVENT:	START OF SET (SKIFF OFF)	BEGIN PURSING (WINCH ON)	END PURSING (RINGS UP)	BEGIN BRAILING	END OF BRAILING / SACK ONBOARD	END OF SET (NEXT ACTIVITY START)
TIME:						

SET CATCH DETAILS											
OBSERVER'S BREAKDOWN OF TOTAL TUNA CAUGHT <small>- circle YES or NO for each species</small>										N.B.: these calculations include all the tuna in this catch, whether retained or discarded	
brail capacity ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT <small>Type 1 brail (see PS-1 form)</small>		sum of all brails ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT <small>(see PS-4 form)</small>		Total catch less bycatch (see below) = Total tuna catch <input type="text"/> mT		<b>SKIP-JACK</b>		<b>YELLOWFIN</b> SMALL (< 75 cm)      LARGE (> 75 cm)		<b>BIGEYE</b> SMALL (< 75 cm)      LARGE (> 75 cm)	
YES	(%)	YES	(%)	YES	(%)	NUMBER	YES	(%)	YES	(%)	NUMBER
NO		NO		NO			NO		NO		

BY-CATCH (ALL NON-TARGET SPECIES)					TARGET TUNA						
SPECIES CODE	FATE CODE	OBSERVER No. (mT)	VESSEL LOG No. (mT)	COMMENTS	A. OBSERVER estimates of total of each species caught (mT)			SKJ	YFT	BET	
					Observer	FATE					
						a. (mT)					
					Vessel	FATE					
						(mT)					
					Observer	FATE					
						b. (mT)					
					Vessel	FATE					
						(mT)					
					Observer	FATE					
						c. (mT)					
					Vessel	FATE					
						(mT)					
Total weight of bycatch: _____ mT					B. OBSERVER totals (mT) discards + RCC (a+b+c):						
Comments					Tuna kept onboard for later unload if not RWW	FATE					
						OBS (mT)					
						VES (mT)					
					FATE	RWW	RWW	RWW			
					estimates	OBS (mT)					
						VES (mT)					
<b>TAGS - How many Tags were recovered?</b>					Due to gear break / bycatch mitigation			ESC	ESC	ESC	
					Record species and tag numbers. Fill tag recovery forms!						

FATE CODES			
RWW	Retained - whole weight	DFR	Discarded trunk - fins retained (shark only)
RHG	Retained - headed and gutted (billfish only)	DTS	Discarded - too small (tuna only)
RGG	Retained - gilled and gutted (kept for sale)	DGD	Discarded - gear damage (tuna only)
RPT	Retained - partial (e.g. fillet, loin)	DVF	Discarded - vessel fully loaded
RCC	Retained - crew consumption (onboard)	DUS	Discarded - unwanted species
ROR	Retained - other reason (specify)	DSD	Discarded - shark damage
RFR	Retained trunk - fins retained (shark only)	DWD	Discarded - whale damage
DPA	Discarded SSI - alive	DPA	
DPD	(species of special interest) - dead	DPD	
DPU	- unknown condition	DPU	
DPQ	Discarded - poor quality		
DOR	Discarded - other reasons (specify)		
ESC	= Escaped		

(A PS-3 form **must** be filled out for the first and every set (recorded as *activity code 1* on PS-2) - whether monitored or not, even if a skunk set.) (For the very rare occasion that a set is not monitored the column for the vessel's estimate of catch must still be completed.) (N.B.: A PS-4 form is not required for skunk set.)

<b>OBSERVER NAME</b>	Print first name first and last name last. Eg.: "John Smith" not "Smith John". Print clearly !
<b>VESSEL NAME</b>	Full unabbreviated name. Eg.: a boat with name "Captain Paul Catchit" should not be abbreviated to Capt. P.Catchit.
<b>PAGE OF</b>	Number each PS-3 form from start until end of trip. Because one PS-3 is used for every set this is also the set No.
<b>OBSERVER TRIP ID No.</b>	This number is the same on all forms for a single observer trip.
<b>START of SET</b> Observer (PS-2)	The exact date and time that the observer recorded for this set on the PS-2. Record as year/month/day.
<b>DATE and TIME</b> Vessel (logsheet)	The exact date and time that the vessel has recorded for this set on their PS Log Sheet. Record as year/month/date.

<b>SET SEQUENCE</b>	<b>BEGIN SET (S KIFF OFF)</b>	Exact same time as recorded on the daily log (PS-2) and in the "Observer Start of Set Date and Time" section, above.
	<b>BEGIN PURSING (WINCH ON)</b>	The purse wire will be thrown to the vessel from the skiff, and it will then be attached to the winch. Record the time the winch is switched on.
	<b>END PURSING (RINGS UP)</b>	During the winching, a bunch of rings will come on board. Record the time when the last of the rings appears. This indicates the net has totally enclosed (pursed) the fish and they cannot escape.
	<b>BEGIN BRAILING</b>	Record the time the vessel starts the brailing process. This will have been recorded on the PS-4 form. If there was no brailing just record a dash
	<b>END BRAILING / SACK ONBOARD</b>	Record the time when the vessel finishes brailing. If there was no brailing record the time that the sack was lifted up on to the deck.
	<b>END SET (NEXT ACTIVITY START)</b>	Next activity START marks end of set (no later than 'skiff comes on board'). Record the activity change on PS-2.

<b>TOTAL CATCH and TOTAL TUNA CATCH</b>	
<b>Brail Capacity</b>	Find on the PS-1. Use to calculate total catch. <b>'Brail capacity' x 'Sum of all brails' = 'TOTAL CATCH'</b>
<b>Sum of all brails</b>	After calculating the total number of brails on the PS-4 form (for the same set) transfer your answer here.
Type 1 and	... if a 2nd brail type is also used for this set samples, estimates of the brail capacity for both brail types must be made. Fill the 'brail capacity' and the 'sum of all brail' fields for both the 'type 1' and the 'type 2' brails.
Type 2 brails	Add calculations of total catch from each brail type together to get a single "TOTAL CATCH" figure. (If there is no 'type 2' brail (which is normal) then simply record a dash in each of the 'type 2' fields and all other calculations will be based only on the 'type 1' brail information that is provided.)
<b>TOTAL CATCH</b>	This is the combined weight of all the (target and bycatch species) fish brought onboard.
<b>less bycatch</b>	Calculate the amount of bycatch (in mT) that is in the catch in the bycatch area below and transfer to this field
<b>TOTAL TUNA CATCH</b>	Subtract the total amount of bycatch from the TOTAL CATCH to get TOTAL TUNA CATCH. This includes all tuna caught whether or not it is later discarded. It does not include tuna that escaped <b>alive</b> from net.

<b>OBSERVER'S BREAKDOWN of TOTAL TUNA CAUGHT</b>	<b>YES or NO</b>	YES' or NO' <b>must</b> be circled to show if SKJ, small YFT, large YFT, small BET, large BET were even seen in the catch
<b>%</b>		Carefully eye-estimate the <b>percentage of the TOTAL TUNA</b> for each species (+ each size category for YFT and BET) N.B.: % of small (or large) YFT (or BET) is the % of <b>TOTAL TUNA</b> ! NOT % of that species of tuna.
<b>Number</b>		If there are not many large YFT or BET and good estimate of number can be made record number of large YFT (or BET) If a <b>good</b> estimate (counts) is not easy, dash the 'number' field. <b>Do not</b> make a rough estimate !

<b>SET CATCH DETAILS</b>	<b>BY-CATCH SPECIES CODE</b>	Record every species that lands on deck with the three letter FAO species code.
	<b>FATE CODE</b>	Use fate codes provided to say what happened to each species landed Use 1 line per species/fate group. Remember that a species may be split into groups each with a different fate code. Eg: RRU RWW 2 mT <b>REMEMBER</b> - use only one (the best and most informative) code for each line. RRU DTS 0.5 mT <b>NEW 2014:</b> Use the SSI FATE CODES FOR ALL SHARKS to indicate 'live' status. Use 'RFR' / 'DFR' in comments if finning observed).
	<b>OBSERVER</b>	
	<b>(mT)</b>	Calculate the amount of each species caught, in each fate code category, using an appropriate assessment technique. Use mT. For instance if 300 kg of Mahi mahi and 40 kg of wahoo were caught - record 0.3 mt DOL /0.04 mt WAH
	<b>Number</b>	Only record a number if an accurate count is possible. Large amounts are recorded in "mT". If possible record both.
	<b>VESSEL LOG</b>	
<b>(mT)</b>	Copy the figures recorded by the ship's officers on the Vessel Logsheet, for this set.	
<b>Number</b>	Place a dash in the column if they have not recorded the species.	
<b>Total weight of bycatch</b>	Calculate from the fields above for observer (important for use in 'Total Tuna' calculation) and vessel bycatch estimates	

<b>TAGS</b>	<b>TARGET TUNA</b>	
	<b>A. OBSERVER estimates of total caught</b>	Calculate the combined large and small <b>% x Total tuna catch</b> for each species (SKJ, YFT and BET)
	<b>FATE</b>	Record fate of discarded tuna or tuna retained for crew consumption (RCC), using fate codes listed at bottom of form
	<b>OBS (mT)</b>	Give a careful approximation (eye-estimate) of the total amount of catch for the relevant fate /species code combination. Record the amounts in metric tonnes.
	<b>VES (mT)</b>	Copy the weight, as recorded for each species in the vessel's logsheet. If nothing is recorded in the logsheet place a dash in the data field. If "0" is recorded on the logsheet record "0" here. <b>Record in metric tonnes.</b> Eg.: If amount on logsheet is in short tons this <b>MUST</b> be converted to metric tonnes.
	<b>B. OBSERVER totals (mT) discards + RCC</b>	For each species add together the mT amounts that are recorded in the rows 'a.', 'b.' and 'c' to get the total of all the discarded and the retained for crew consumption (RCC) combined for that species.
	<b>Tuna kept onboard for later unload</b>	Usually tuna are retained whole weight (RWW). If so then RWW can be calculated as (A. - B.) for each species. If tuna is otherwise retained onboard for later unload (fate = R??) then A. - B. = the combined total of RWW + R??
	<b>Due to gear break / bycatch mitigation</b>	ESC Best observer estimate of mT of any live tuna that escaped during set. Refer to Captain for any tuna seen escaping via sonar. Include any live tuna escaped from gear breakage or because vessel tries to release important bycatch. N.B. This does not include dead tuna that are released from the net after a breakdown during or after net sac-up = discards.
	<b>How many tags were recovered? species and tag numbers</b>	Note the number of tags found from in this set. Look out for tags on tuna, billfish, sharks, turtles, birds, etc. Record <b>tag number</b> and <b>species</b> . Note tag colour, tagging organisation and any unusual features about condition. Fill these and other tag details into the tag recovery form (and GEN-2 form if necessary).

# SPC/FFA REGIONAL PURSE SEINE OBSERVER SET DETAILS

**FORM PS - 3**

REV. MAR. 2014

OBSERVER NAME	VESSEL NAME	PAGE _____ OF _____ (SET No.)
OBSERVER TRIP I.D. NUMBER	START OF SET DATE AND TIME OBSERVER: YY MM DD hh mm (see PS-2)	START OF SET DATE AND TIME VESSEL LOG: YY MM DD hh mm

SET SEQUENCE TIMES						
EVENT:	START OF SET (SKIFF OFF)	BEGIN PURSING (WINCH ON)	END PURSING (RINGS UP)	BEGIN BRAILING	END OF BRAILING / SACK ONBOARD	END OF SET (NEXT ACTIVITY START)
TIME:						

SET CATCH DETAILS											
OBSERVER'S BREAKDOWN OF TOTAL TUNA CAUGHT <small>- circle YES or NO for each species</small>										N.B.: these calculations include all the tuna in this catch, whether retained or discarded	
<b>brail capacity</b> ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT <small>Type 1 brail (see PS-1 form)</small>		<b>sum of all brails</b> ( <input type="text"/> mT x <input type="text"/> ) + ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT <small>(see PS-4 form)</small>		<b>Total catch</b> less bycatch (see below) = <input type="text"/> mT = <b>Total tuna catch</b> <input type="text"/> mT		<b>SKIP-JACK</b> YES (%) NO YES (%) NO		<b>YELLOWFIN</b> SMALL (< 75 cm) LARGE (> 75 cm) YES (%) NO YES (%) NO		<b>BIGEYE</b> SMALL (< 75 cm) LARGE (> 75 cm) YES (%) NO YES (%) NO	

BY-CATCH (ALL NON-TARGET SPECIES)					TARGET TUNA					
SPECIES CODE	FATE CODE	OBSERVER No. (mT)	VESSEL LOG No. (mT)	COMMENTS	A. OBSERVER estimates of total of each species caught (mT)			SKJ	YFT	BET
					Observer	FATE				
						a. (mT)				
					Vessel	FATE				
						(mT)				
					Observer	FATE				
						b. (mT)				
					Vessel	FATE				
						(mT)				
					Observer	FATE				
						c. (mT)				
					Vessel	FATE				
						(mT)				
Total weight of bycatch: _____ mT					B. OBSERVER totals (mT) discards + RCC (a+b+c): _____					
Comments					Tuna kept onboard for later unload if not RWW	FATE				
						OBS (mT)				
						VES (mT)				
					FATE	RWW	RWW	RWW		
					Due to gear break / bycatch mitigation	ESC	ESC	ESC		
						OBS (mT)				
TAGS - How many Tags were recovered?					estimates	VES (mT)				
						Record species and tag numbers. Fill tag recovery forms!				

FATE CODES			
RWW	Retained - whole weight	DFR	Discarded trunk - fins retained (shark only)
RHG	Retained - headed and gutted (billfish only)	DTS	Discarded - too small (tuna only)
RGG	Retained - gilled and gutted (kept for sale)	DGD	Discarded - gear damage (tuna only)
RPT	Retained - partial (e.g. fillet, loin)	DVF	Discarded - vessel fully loaded
RCC	Retained - crew consumption (onboard)	DUS	Discarded - unwanted species
ROR	Retained - other reason (specify)	DSD	Discarded - shark damage
RFR	Retained trunk - fins retained (shark only)	DWD	Discarded - whale damage
DPA	Discarded SSI - alive	DPA	
DPD	(species of special interest) - dead	DPD	
DPU	- unknown condition	DPU	
DPQ	Discarded - poor quality		
DOR	Discarded - other reasons (specify)		
ESC	= Escaped		

(A PS-3 form **must** be filled out for the first and every set (recorded as *activity code 1* on PS-2) - whether monitored or not, even if a skunk set.) (For the very rare occasion that a set is not monitored the column for the vessel's estimate of catch must still be completed.) (N.B.: A PS-4 form is not required for skunk set.)

<b>OBSERVER NAME</b>	Print first name first and last name last. Eg.: "John Smith" not "Smith John". Print clearly !
<b>VESSEL NAME</b>	Full unabbreviated name. Eg.: a boat with name "Captain Paul Catchit" should not be abbreviated to Capt. P.Catchit.
<b>PAGE OF</b>	Number each PS-3 form from start until end of trip. Because one PS-3 is used for every set this is also the set No.
<b>OBSERVER TRIP ID No.</b>	This number is the same on all forms for a single observer trip.
<b>START of SET</b> Observer (PS-2)	The exact date and time that the observer recorded for this set on the PS-2. Record as year/month/day.
<b>DATE and TIME</b> Vessel (logsheet)	The exact date and time that the vessel has recorded for this set on their PS Log Sheet. Record as year/month/date.

<b>SET SEQUENCE</b>	<b>BEGIN SET (S KIFF OFF)</b>	Exact same time as recorded on the daily log (PS-2) and in the "Observer Start of Set Date and Time" section, above.
	<b>BEGIN PURSING (WINCH ON)</b>	The purse wire will be thrown to the vessel from the skiff, and it will then be attached to the winch. Record the time the winch is switched on.
	<b>END PURSING (RINGS UP)</b>	During the winching, a bunch of rings will come on board. Record the time when the last of the rings appears. This indicates the net has totally enclosed (pursed) the fish and they cannot escape.
	<b>BEGIN BRAILING</b>	Record the time the vessel starts the brailing process. This will have been recorded on the PS-4 form. If there was no brailing just record a dash
	<b>END BRAILING / SACK ONBOARD</b>	Record the time when the vessel finishes brailing. If there was no brailing record the time that the sack was lifted up on to the deck.
	<b>END SET (NEXT ACTIVITY START)</b>	Next activity START marks end of set (no later than 'skiff comes on board'). Record the activity change on PS-2.

<b>TOTAL CATCH and TOTAL TUNA CATCH</b>	
<b>Brail Capacity</b>	Find on the PS-1. Use to calculate total catch. <b>'Brail capacity' x 'Sum of all brails' = 'TOTAL CATCH'</b>
<b>Sum of all brails</b>	After calculating the total number of brails on the PS-4 form (for the same set) transfer your answer here.
Type 1 and Type 2 brails	... if a 2nd brail type is also used for this set samples, estimates of the brail capacity for both brail types must be made. Fill the 'brail capacity' and the 'sum of all brail' fields for both the 'type 1' and the 'type 2' brails. Add calculations of total catch from each brail type together to get a single "TOTAL CATCH" figure. (If there is no 'type 2' brail (which is normal) then simply record a dash in each of the 'type 2' fields and all other calculations will be based only on the 'type 1' brail information that is provided.)
<b>TOTAL CATCH less bycatch</b>	This is the combined weight of all the (target and bycatch species) fish brought onboard. Calculate the amount of bycatch (in mT) that is in the catch in the bycatch area below and transfer to this field
<b>TOTAL TUNA CATCH</b>	Subtract the total amount of bycatch from the TOTAL CATCH to get TOTAL TUNA CATCH. This includes all tuna caught whether or not it is later discarded. It does not include tuna that escaped <b>alive</b> from net.

<b>OBSERVER'S BREAKDOWN of TOTAL TUNA CAUGHT</b>	<b>YES or NO</b>	YES' or NO' <b>must</b> be circled to show if SKJ, small YFT, large YFT, small BET, large BET were even seen in the catch
<b>%</b>		Carefully eye-estimate the <b>percentage of the TOTAL TUNA</b> for each species (+ each size category for YFT and BET) N.B.: % of small (or large) YFT (or BET) is the % of <b>TOTAL TUNA</b> ! NOT % of that species of tuna.
<b>Number</b>		If there are not many large YFT or BET and good estimate of number can be made record number of large YFT (or BET) If a <b>good</b> estimate (counts) is not easy, dash the 'number' field. <b>Do not</b> make a rough estimate !

<b>SET CATCH DETAILS</b>	<b>BY-CATCH SPECIES CODE</b>	Record every species that lands on deck with the three letter FAO species code.
	<b>FATE CODE</b>	Use fate codes provided to say what happened to each species landed Use 1 line per species/fate group. Remember that a species may be split into groups each with a different fate code. Eg: RRU RWW 2 mT <b>REMEMBER</b> - use only one (the best and most informative) code for each line. RRU DTS 0.5 mT <b>NEW 2014:</b> Use the SSI FATE CODES FOR ALL SHARKS to indicate 'live' status. Use 'RFR' / 'DFR' in comments if finning observed).
	<b>OBSERVER (mT)</b>	Calculate the amount of each species caught, in each fate code category, using an appropriate assessment technique. Use mT. For instance if 300 kg of Mahi mahi and 40 kg of wahoo were caught - record 0.3 mt DOL /0.04 mt WAH
	<b>Number</b>	Only record a number if an accurate count is possible. Large amounts are recorded in "mT". If possible record both.
	<b>VESSEL LOG (mT)</b>	Copy the figures recorded by the ship's officers on the Vessel Logsheet, for this set.
	<b>Number</b>	Place a dash in the column if they have not recorded the species.
<b>Total weight of bycatch</b>	Calculate from the fields above for observer (important for use in 'Total Tuna' calculation) and vessel bycatch estimates	

<b>TAGS</b>	<b>TARGET TUNA</b>	
	<b>A. OBSERVER estimates of total caught</b>	Calculate the combined large and small <b>% x Total tuna catch</b> for each species (SKJ, YFT and BET)
	<b>FATE</b>	Record fate of discarded tuna or tuna retained for crew consumption (RCC), using fate codes listed at bottom of form
	<b>OBS (mT)</b>	Give a careful approximation (eye-estimate) of the total amount of catch for the relevant fate /species code combination. Record the amounts in metric tonnes.
	<b>VES (mT)</b>	Copy the weight, as recorded for each species in the vessel's logsheet. If nothing is recorded in the logsheet place a dash in the data field. If "0" is recorded on the logsheet record "0" here. <b>Record in metric tonnes.</b> Eg.: If amount on logsheet is in short tons this <b>MUST</b> be converted to metric tonnes.
	<b>B. OBSERVER totals (mT) discards + RCC</b>	For each species add together the mT amounts that are recorded in the rows 'a.', 'b.' and 'c' to get the total of all the discarded and the retained for crew consumption (RCC) combined for that species.
	<b>Tuna kept onboard for later unload</b>	Usually tuna are retained whole weight (RWW). If so then RWW can be calculated as (A. - B.) for each species. If tuna is otherwise retained onboard for later unload (fate = R??) then A. - B. = the combined total of RWW + R??
	<b>Due to gear break / bycatch mitigation</b>	ESC Best observer estimate of mT of any live tuna that escaped during set. Refer to Captain for any tuna seen escaping via sonar. Include any live tuna escaped from gear breakage or because vessel tries to release important bycatch. N.B. This does not include dead tuna that are released from the net after a breakdown during or after net sac-up = discards.
	<b>How many tags were recovered? species and tag numbers</b>	Note the number of tags found from in this set. Look out for tags on tuna, billfish, sharks, turtles, birds, etc. Record <b>tag number</b> and <b>species</b> . Note tag colour, tagging organisation and any unusual features about condition. Fill these and other tag details into the tag recovery form (and GEN-2 form if necessary).

**SPC/FFA REGIONAL PURSE SEINE OBSERVER  
SET DETAILS**

**FORM PS - 3**

REV. MAR. 2014

OBSERVER NAME	VESSEL NAME	PAGE	OF
		(SET No.)	
OBSERVER TRIP I.D. NUMBER	START OF SET DATE AND TIME OBSERVER: (see PS-2)	START OF SET DATE AND TIME VESSEL LOG:	
	YY MM DD hh mm	YY MM DD hh mm	

SET SEQUENCE TIMES						
EVENT:	START OF SET (SKIFF OFF)	BEGIN PURSING (WINCH ON)	END PURSING (RINGS UP)	BEGIN BRAILING	END OF BRAILING / SACK ONBOARD	END OF SET (NEXT ACTIVITY START)
TIME:						

SET CATCH DETAILS																	
OBSERVER'S BREAKDOWN OF TOTAL TUNA CAUGHT										<small>N.B.: these calculations include all the tuna in this catch, whether retained or discarded</small>							
brail capacity		sum of all brails		Total catch		OBSERVER'S BREAKDOWN OF TOTAL TUNA CAUGHT											
$(\text{mT} \times \text{mT})$		$(\text{mT})$		$= \text{mT}$		SKIP-JACK		YELLOWFIN				BIGEYE					
<small>Type 1 brail (see PS-1 form)</small>		<small>(see PS-4 form)</small>				SMALL (< 75 cm)		LARGE (> 75 cm)				SMALL (< 75 cm)		LARGE (> 75 cm)			
<small>less bycatch (see below)</small>				$= \text{Total tuna catch}$		YES	(%)	YES	(%)	YES	(%)	NUMBER	YES	(%)	YES	(%)	NUMBER
<small>type 2 brail</small>		$(\text{mT} \times \text{mT})$				NO		NO		NO			NO		NO		

BY-CATCH (ALL NON-TARGET SPECIES)						TARGET TUNA																																																					
SPECIES CODE	FATE CODE	OBSERVER (mT)	No.	VESSEL LOG (mT)	No.	COMMENTS	A. OBSERVER estimates of total of each species caught (mT)	SKJ	YFT	BET																																																	
							Observer	FATE																																																			
							Observer	a. (mT)																																																			
							Vessel	FATE																																																			
							Vessel	(mT)																																																			
							Observer	FATE																																																			
							Observer	b. (mT)																																																			
							Vessel	FATE																																																			
							Vessel	(mT)																																																			
							Observer	FATE																																																			
							Observer	c. (mT)																																																			
							Vessel	FATE																																																			
							Vessel	(mT)																																																			
Total weight of bycatch: _____ mT						B. OBSERVER totals (mT) discards + RCC (a+b+c): _____																																																					
Comments						<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td rowspan="4" style="writing-mode: vertical-rl; transform: rotate(180deg);">Tuna kept onboard for later unload if not RWW</td> <td>FATE</td> <td></td> <td></td> <td></td> </tr> <tr> <td>OBS (mT)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>VES (mT)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>FATE</td> <td>RWW</td> <td>RWW</td> <td>RWW</td> </tr> <tr> <td>OBS (mT)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>VES (mT)</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="5">Due to gear break / bycatch mitigation</td> <td>ESC</td> <td>ESC</td> <td>ESC</td> </tr> <tr> <td colspan="5">estimates</td> <td>OBS (mT)</td> <td></td> <td></td> </tr> <tr> <td colspan="5"></td> <td>VES (mT)</td> <td></td> <td></td> </tr> </table>					Tuna kept onboard for later unload if not RWW	FATE				OBS (mT)				VES (mT)				FATE	RWW	RWW	RWW	OBS (mT)				VES (mT)				Due to gear break / bycatch mitigation					ESC	ESC	ESC	estimates					OBS (mT)								VES (mT)		
Tuna kept onboard for later unload if not RWW	FATE																																																										
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<b>TAGS - How many Tags were recovered?</b>						Record species and tag numbers. Fill tag recovery forms!																																																					

FATE CODES			
RWW	Retained - whole weight	DFR	Discarded trunk - fins retained (shark only)
RHG	Retained - headed and gutted (billfish only)	DTS	Discarded - too small (tuna only)
RGG	Retained - gilled and gutted (kept for sale)	DGD	Discarded - gear damage (tuna only)
RPT	Retained - partial (e.g. fillet, loin)	DVF	Discarded - vessel fully loaded
RCC	Retained - crew consumption (onboard)	DUS	Discarded - unwanted species
ROR	Retained - other reason (specify)	DSD	Discarded - shark damage
RFR	Retained trunk - fins retained (shark only)	DWD	Discarded - whale damage
DPA	Discarded SSI - alive	DPA	
DPD	(species of - dead	DPD	
DPU	special interest) - unknown condition	DPU	
DPQ	Discarded - poor quality		
DOR	Discarded - other reasons (specify)		
ESC	= Escaped		



(A PS-3 form **must** be filled out for the first and every set (recorded as *activity code 1* on PS-2) - whether monitored or not, even if a skunk set.) (For the very rare occasion that a set is not monitored the column for the vessel's estimate of catch must still be completed.) (N.B.: A PS-4 form is not required for skunk set.)

<b>OBSERVER NAME</b>	Print first name first and last name last. Eg.: "John Smith" not "Smith John". Print clearly !
<b>VESSEL NAME</b>	Full unabbreviated name. Eg.: a boat with name "Captain Paul Catchit" should not be abbreviated to Capt. P.Catchit.
<b>PAGE OF</b>	Number each PS-3 form from start until end of trip. Because one PS-3 is used for every set this is also the set No.
<b>OBSERVER TRIP ID No.</b>	This number is the same on all forms for a single observer trip.
<b>START of SET</b> Observer (PS-2)	The exact date and time that the observer recorded for this set on the PS-2. Record as year/month/day.
<b>DATE and TIME</b> Vessel (logsheet)	The exact date and time that the vessel has recorded for this set on their PS Log Sheet. Record as year/month/date.

<b>SET SEQUENCE</b>	<b>BEGIN SET (S KIFF OFF)</b>	Exact same time as recorded on the daily log (PS-2) and in the "Observer Start of Set Date and Time" section, above.
	<b>BEGIN PURSING (WINCH ON)</b>	The purse wire will be thrown to the vessel from the skiff, and it will then be attached to the winch. Record the time the winch is switched on.
	<b>END PURSING (RINGS UP)</b>	During the winching, a bunch of rings will come on board. Record the time when the last of the rings appears. This indicates the net has totally enclosed (pursed) the fish and they cannot escape.
	<b>BEGIN BRAILING</b>	Record the time the vessel starts the brailing process. This will have been recorded on the PS-4 form. If there was no brailing just record a dash
	<b>END BRAILING / SACK ONBOARD</b>	Record the time when the vessel finishes brailing. If there was no brailing record the time that the sack was lifted up on to the deck.
	<b>END SET (NEXT ACTIVITY START)</b>	Next activity START marks end of set (no later than 'skiff comes on board'). Record the activity change on PS-2.

<b>TOTAL CATCH and TOTAL TUNA CATCH</b>	
<b>Brail Capacity</b>	Find on the PS-1. Use to calculate total catch. <b>'Brail capacity' x 'Sum of all brails' = 'TOTAL CATCH'</b>
<b>Sum of all brails</b>	After calculating the total number of brails on the PS-4 form (for the same set) transfer your answer here.
Type 1 and Type 2 brails	... if a 2nd brail type is also used for this set samples, estimates of the brail capacity for both brail types must be made. Fill the 'brail capacity' and the 'sum of all brail' fields for both the 'type 1' and the 'type 2' brails. Add calculations of total catch from each brail type together to get a single "TOTAL CATCH" figure. (If there is no 'type 2' brail (which is normal) then simply record a dash in each of the 'type 2' fields and all other calculations will be based only on the 'type 1' brail information that is provided.)
<b>TOTAL CATCH less bycatch</b>	This is the combined weight of all the (target and bycatch species) fish brought onboard. Calculate the amount of bycatch (in mT) that is in the catch in the bycatch area below and transfer to this field
<b>TOTAL TUNA CATCH</b>	Subtract the total amount of bycatch from the TOTAL CATCH to get TOTAL TUNA CATCH. This includes all tuna caught whether or not it is later discarded. It does not include tuna that escaped <b>alive</b> from net.

<b>OBSERVER'S BREAKDOWN of TOTAL TUNA CAUGHT</b>	<b>YES or NO</b>	YES' or NO' <b>must</b> be circled to show if SKJ, small YFT, large YFT, small BET, large BET were even seen in the catch
<b>%</b>		Carefully eye-estimate the <b>percentage of the TOTAL TUNA</b> for each species (+ each size category for YFT and BET) N.B.: % of small (or large) YFT (or BET) is the % of <b>TOTAL TUNA</b> ! NOT % of that species of tuna.
<b>Number</b>		If there are not many large YFT or BET and good estimate of number can be made record number of large YFT (or BET) If a <b>good</b> estimate (counts) is not easy, dash the 'number' field. <b>Do not</b> make a rough estimate !

<b>SET CATCH DETAILS</b>	<b>BY-CATCH SPECIES CODE</b>	Record every species that lands on deck with the three letter FAO species code.
	<b>FATE CODE</b>	Use fate codes provided to say what happened to each species landed Use 1 line per species/fate group. Remember that a species may be split into groups each with a different fate code. Eg: RRU RWW 2 mT <b>REMEMBER</b> - use only one (the best and most informative) code for each line. RRU DTS 0.5 mT <b>NEW 2014:</b> Use the SSI FATE CODES FOR ALL SHARKS to indicate 'live' status. Use 'RFR' / 'DFR' in comments if finning observed).
	<b>OBSERVER (mT)</b>	Calculate the amount of each species caught, in each fate code category, using an appropriate assessment technique. Use mT. For instance if 300 kg of Mahi mahi and 40 kg of wahoo were caught - record 0.3 mt DOL /0.04 mt WAH
	<b>Number</b>	Only record a number if an accurate count is possible. Large amounts are recorded in "mT". If possible record both.
	<b>VESSEL LOG (mT)</b>	Copy the figures recorded by the ship's officers on the Vessel Logsheet, for this set.
	<b>Number</b>	Place a dash in the column if they have not recorded the species.
<b>Total weight of bycatch</b>	Calculate from the fields above for observer (important for use in 'Total Tuna' calculation) and vessel bycatch estimates	

<b>TAGS</b>	<b>TARGET TUNA</b>	
	<b>A. OBSERVER estimates of total caught</b>	Calculate the combined large and small <b>% x Total tuna catch</b> for each species (SKJ, YFT and BET)
	<b>FATE</b>	Record fate of discarded tuna or tuna retained for crew consumption (RCC), using fate codes listed at bottom of form
	<b>OBS (mT)</b>	Give a careful approximation (eye-estimate) of the total amount of catch for the relevant fate /species code combination. Record the amounts in metric tonnes.
	<b>VES (mT)</b>	Copy the weight, as recorded for each species in the vessel's logsheet. If nothing is recorded in the logsheet place a dash in the data field. If "0" is recorded on the logsheet record "0" here. <b>Record in metric tonnes.</b> Eg.: If amount on logsheet is in short tons this <b>MUST</b> be converted to metric tonnes.
	<b>B. OBSERVER totals (mT) discards + RCC</b>	For each species add together the mT amounts that are recorded in the rows 'a.', 'b.' and 'c' to get the total of all the discarded and the retained for crew consumption (RCC) combined for that species.
	<b>Tuna kept onboard for later unload</b>	Usually tuna are retained whole weight (RWW). If so then RWW can be calculated as (A. - B.) for each species. If tuna is otherwise retained onboard for later unload (fate = R??) then A. - B. = the combined total of RWW + R??
	<b>Due to gear break / bycatch mitigation</b>	ESC Best observer estimate of mT of any live tuna that escaped during set. Refer to Captain for any tuna seen escaping via sonar. Include any live tuna escaped from gear breakage or because vessel tries to release important bycatch. N.B. This does not include dead tuna that are released from the net after a breakdown during or after net sac-up = discards.
	<b>How many tags were recovered? species and tag numbers</b>	Note the number of tags found from in this set. Look out for tags on tuna, billfish, sharks, turtles, birds, etc. Record <b>tag number</b> and <b>species</b> . Note tag colour, tagging organisation and any unusual features about condition. Fill these and other tag details into the tag recovery form (and GEN-2 form if necessary).

**SPC/FFA REGIONAL PURSE SEINE OBSERVER  
SET DETAILS**

**FORM PS - 3**

REV. MAR. 2014

OBSERVER NAME	VESSEL NAME	PAGE	OF
		(SET No.)	
OBSERVER TRIP I.D. NUMBER	START OF SET DATE AND TIME OBSERVER: (see PS-2)	START OF SET DATE AND TIME VESSEL LOG:	
	YY MM DD hh mm	YY MM DD hh mm	

SET SEQUENCE TIMES						
EVENT:	START OF SET (SKIFF OFF)	BEGIN PURSING (WINCH ON)	END PURSING (RINGS UP)	BEGIN BRAILING	END OF BRAILING / SACK ONBOARD	END OF SET (NEXT ACTIVITY START)
TIME:						

SET CATCH DETAILS											
OBSERVER'S BREAKDOWN OF TOTAL TUNA CAUGHT										N.B.: these calculations include all the tuna in this catch, whether retained or discarded	
brail capacity		sum of all brails		Total catch							
( <input type="text"/> mT )	x	( <input type="text"/> )	=	( <input type="text"/> )	mT						
Type 1 brail (see PS-1 form)		(see PS-4 form)		less bycatch (see below)							
( <input type="text"/> )	+	( <input type="text"/> )	=	( <input type="text"/> )	mT						
type 2 brail				= Total tuna catch							

SKIP-JACK		YELLOWFIN				BIGEYE					
		SMALL (< 75 cm)		LARGE (> 75 cm)		SMALL (< 75 cm)		LARGE (> 75 cm)			
YES	(%)	YES	(%)	YES	(%)	NUMBER	YES	(%)	YES	(%)	NUMBER
NO		NO		NO			NO		NO		

BY-CATCH (ALL NON-TARGET SPECIES)						TARGET TUNA						
SPECIES CODE	FATE CODE	OBSERVER (mT)	No.	VESSEL LOG (mT)	No.	COMMENTS	A. OBSERVER estimates of total of each species caught (mT)			SKJ	YFT	BET
							Observer	FATE				
							Observer	a. (mT)				
							Vessel	FATE				
							Vessel	(mT)				
							Observer	FATE				
							Observer	b. (mT)				
							Vessel	FATE				
							Vessel	(mT)				
							Observer	FATE				
							Observer	c. (mT)				
							Vessel	FATE				
							Vessel	(mT)				
Total weight of bycatch: _____ mT						B. OBSERVER totals (mT) discards + RCC (a+b+c): _____						
Comments						Tuna kept onboard for later unload if not RWW	Observer	FATE				
							Observer	OBS (mT)				
							Observer	VES (mT)				
												Due to gear break / bycatch mitigation
						Observer	OBS (mT)					
						Observer	VES (mT)					
						estimates	Observer	OBS (mT)				
							Observer	VES (mT)				
<b>TAGS - How many Tags were recovered?</b>						Record species and tag numbers. Fill tag recovery forms!						

FATE CODES			
RWW	Retained - whole weight	DFR	Discarded trunk - fins retained (shark only)
RHG	Retained - headed and gutted (billfish only)	DTS	Discarded - too small (tuna only)
RGG	Retained - gilled and gutted (kept for sale)	DGD	Discarded - gear damage (tuna only)
RPT	Retained - partial (e.g. fillet, loin)	DVF	Discarded - vessel fully loaded
RCC	Retained - crew consumption (onboard)	DUS	Discarded - unwanted species
ROR	Retained - other reason (specify)	DSD	Discarded - shark damage
RFR	Retained trunk - fins retained (shark only)	DWD	Discarded - whale damage
DPA	Discarded SSI - alive	DPA	
DPD	(species of - dead	DPD	
DPU	special interest) - unknown condition	DPU	
DPQ	Discarded - poor quality		
DOR	Discarded - other reasons (specify)		
ESC	= Escaped		

(A PS-3 form **must** be filled out for the first and every set (recorded as *activity code 1* on PS-2) - whether monitored or not, even if a skunk set.) (For the very rare occasion that a set is not monitored the column for the vessel's estimate of catch must still be completed.) (N.B.: A PS-4 form is not required for skunk set.)

<b>OBSERVER NAME</b>	Print first name first and last name last. Eg.: "John Smith" not "Smith John". Print clearly !
<b>VESSEL NAME</b>	Full unabbreviated name. Eg.: a boat with name "Captain Paul Catchit" should not be abbreviated to Capt. P.Catchit.
<b>PAGE OF</b>	Number each PS-3 form from start until end of trip. Because one PS-3 is used for every set this is also the set No.
<b>OBSERVER TRIP ID No.</b>	This number is the same on all forms for a single observer trip.
<b>START of SET</b> Observer (PS-2)	The exact date and time that the observer recorded for this set on the PS-2. Record as year/month/day.
<b>DATE and TIME</b> Vessel (logsheet)	The exact date and time that the vessel has recorded for this set on their PS Log Sheet. Record as year/month/date.

<b>SET SEQUENCE</b>	<b>BEGIN SET (S KIFF OFF)</b>	Exact same time as recorded on the daily log (PS-2) and in the "Observer Start of Set Date and Time" section, above.
	<b>BEGIN PURSING (WINCH ON)</b>	The purse wire will be thrown to the vessel from the skiff, and it will then be attached to the winch. Record the time the winch is switched on.
	<b>END PURSING (RINGS UP)</b>	During the winching, a bunch of rings will come on board. Record the time when the last of the rings appears. This indicates the net has totally enclosed (pursed) the fish and they cannot escape.
	<b>BEGIN BRAILING</b>	Record the time the vessel starts the brailing process. This will have been recorded on the PS-4 form. If there was no brailing just record a dash
	<b>END BRAILING / SACK ONBOARD</b>	Record the time when the vessel finishes brailing. If there was no brailing record the time that the sack was lifted up on to the deck.
	<b>END SET (NEXT ACTIVITY START)</b>	Next activity START marks end of set (no later than 'skiff comes on board'). Record the activity change on PS-2.

<b>TOTAL CATCH and TOTAL TUNA CATCH</b>	
<b>Brail Capacity</b>	Find on the PS-1. Use to calculate total catch. <b>'Brail capacity' x 'Sum of all brails' = 'TOTAL CATCH'</b>
<b>Sum of all brails</b>	After calculating the total number of brails on the PS-4 form (for the same set) transfer your answer here.
Type 1 and	... if a 2nd brail type is also used for this set samples, estimates of the brail capacity for both brail types must be made. Fill the 'brail capacity' and the 'sum of all brail' fields for both the 'type 1' and the 'type 2' brails.
Type 2 brails	Add calculations of total catch from each brail type together to get a single "TOTAL CATCH" figure. (If there is no 'type 2' brail (which is normal) then simply record a dash in each of the 'type 2' fields and all other calculations will be based only on the 'type 1' brail information that is provided.)
<b>TOTAL CATCH</b>	This is the combined weight of all the (target and bycatch species) fish brought onboard.
<b>less bycatch</b>	Calculate the amount of bycatch (in mT) that is in the catch in the bycatch area below and transfer to this field
<b>TOTAL TUNA CATCH</b>	Subtract the total amount of bycatch from the TOTAL CATCH to get TOTAL TUNA CATCH. This includes all tuna caught whether or not it is later discarded. It does not include tuna that escaped <b>alive</b> from net.

<b>OBSERVER'S BREAKDOWN of TOTAL TUNA CAUGHT</b>	<b>YES or NO</b>	YES' or NO' <b>must</b> be circled to show if SKJ, small YFT, large YFT, small BET, large BET were even seen in the catch
<b>%</b>		Carefully eye-estimate the <b>percentage of the TOTAL TUNA</b> for each species (+ each size category for YFT and BET) N.B.: % of small (or large) YFT (or BET) is the % of <b>TOTAL TUNA</b> ! NOT % of that species of tuna.
<b>Number</b>		If there are not many large YFT or BET and good estimate of number can be made record number of large YFT (or BET) If a <b>good</b> estimate (counts) is not easy, dash the 'number' field. <b>Do not</b> make a rough estimate !

<b>SET CATCH DETAILS</b>	<b>BY-CATCH SPECIES CODE</b>	Record every species that lands on deck with the three letter FAO species code.
	<b>FATE CODE</b>	Use fate codes provided to say what happened to each species landed Use 1 line per species/fate group. Remember that a species may be split into groups each with a different fate code. Eg: RRU RWW 2 mT <b>REMEMBER</b> - use only one (the best and most informative) code for each line. RRU DTS 0.5 mT <b>NEW 2014:</b> Use the SSI FATE CODES FOR ALL SHARKS to indicate 'live' status. Use 'RFR' / 'DFR' in comments if finning observed).
	<b>OBSERVER</b>	
	<b>(mT)</b>	Calculate the amount of each species caught, in each fate code category, using an appropriate assessment technique. Use mT. For instance if 300 kg of Mahi mahi and 40 kg of wahoo were caught - record 0.3 mt DOL /0.04 mt WAH
	<b>Number</b>	Only record a number if an accurate count is possible. Large amounts are recorded in "mT". If possible record both.
	<b>VESSEL LOG</b>	
<b>(mT)</b>	Copy the figures recorded by the ship's officers on the Vessel Logsheet, for this set.	
<b>Number</b>	Place a dash in the column if they have not recorded the species.	
<b>Total weight of bycatch</b>	Calculate from the fields above for observer (important for use in 'Total Tuna' calculation) and vessel bycatch estimates	

<b>TAGS</b>	<b>TARGET TUNA</b>	
	<b>A. OBSERVER estimates of total caught</b>	Calculate the combined large and small <b>% x Total tuna catch</b> for each species (SKJ, YFT and BET)
	<b>FATE</b>	Record fate of discarded tuna or tuna retained for crew consumption (RCC), using fate codes listed at bottom of form
	<b>OBS (mT)</b>	Give a careful approximation (eye-estimate) of the total amount of catch for the relevant fate /species code combination. Record the amounts in metric tonnes.
	<b>VES (mT)</b>	Copy the weight, as recorded for each species in the vessel's logsheet. If nothing is recorded in the logsheet place a dash in the data field. If "0" is recorded on the logsheet record "0" here. <b>Record in metric tonnes.</b> Eg.: If amount on logsheet is in short tons this <b>MUST</b> be converted to metric tonnes.
	<b>B. OBSERVER totals (mT) discards + RCC</b>	For each species add together the mT amounts that are recorded in the rows 'a.', 'b.' and 'c' to get the total of all the discarded and the retained for crew consumption (RCC) combined for that species.
	<b>Tuna kept onboard for later unload</b>	Usually tuna are retained whole weight (RWW). If so then RWW can be calculated as (A. - B.) for each species. If tuna is otherwise retained onboard for later unload (fate = R??) then A. - B. = the combined total of RWW + R??
	<b>Due to gear break / bycatch mitigation</b>	ESC Best observer estimate of mT of any live tuna that escaped during set. Refer to Captain for any tuna seen escaping via sonar. Include any live tuna escaped from gear breakage or because vessel tries to release important bycatch. N.B. This does not include dead tuna that are released from the net after a breakdown during or after net sac-up = discards.
	<b>How many tags were recovered? species and tag numbers</b>	Note the number of tags found from in this set. Look out for tags on tuna, billfish, sharks, turtles, birds, etc. Record <b>tag number</b> and <b>species</b> . Note tag colour, tagging organisation and any unusual features about condition. Fill these and other tag details into the tag recovery form (and GEN-2 form if necessary).

# SPC/FFA REGIONAL PURSE SEINE OBSERVER SET DETAILS

**FORM PS - 3**

REV. MAR. 2014

OBSERVER NAME	VESSEL NAME	PAGE _____ OF _____ (SET No.)
OBSERVER TRIP I.D. NUMBER	START OF SET DATE AND TIME OBSERVER: YY MM DD hh mm (see PS-2)	START OF SET DATE AND TIME VESSEL LOG: YY MM DD hh mm

SET SEQUENCE TIMES						
EVENT:	START OF SET (SKIFF OFF)	BEGIN PURSING (WINCH ON)	END PURSING (RINGS UP)	BEGIN BRAILING	END OF BRAILING / SACK ONBOARD	END OF SET (NEXT ACTIVITY START)
TIME:						

SET CATCH DETAILS											
OBSERVER'S BREAKDOWN OF TOTAL TUNA CAUGHT <small>- circle YES or NO for each species</small>										N.B.: these calculations include all the tuna in this catch, whether retained or discarded	
brail capacity ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT <small>Type 1 brail (see PS-1 form)</small>		sum of all brails ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT <small>(see PS-4 form)</small>		Total catch less bycatch (see below) = Total tuna catch <input type="text"/> mT		<b>SKIP-JACK</b> YES (%) NO		<b>YELLOWFIN</b> SMALL (< 75 cm) LARGE (> 75 cm) YES (%) NO		<b>BIGEYE</b> SMALL (< 75 cm) LARGE (> 75 cm) YES (%) NO	
type 2 brail ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT											

BY-CATCH (ALL NON-TARGET SPECIES)					TARGET TUNA					
SPECIES CODE	FATE CODE	OBSERVER No. (mT)	VESSEL LOG No. (mT)	COMMENTS	A. OBSERVER estimates of total of each species caught (mT)			SKJ	YFT	BET
					Observer	FATE				
						a. (mT)				
					Vessel	FATE				
						(mT)				
					Observer	FATE				
						b. (mT)				
					Vessel	FATE				
						(mT)				
					Observer	FATE				
						c. (mT)				
					Vessel	FATE				
						(mT)				
Total weight of bycatch: _____ mT					B. OBSERVER totals (mT) discards + RCC (a+b+c): _____					
Comments					Tuna kept onboard for later unload if not RWW	FATE				
						OBS (mT)				
						VES (mT)				
					FATE	RWW	RWW	RWW		
					estimates	OBS (mT)				
						VES (mT)				
<b>TAGS - How many Tags were recovered?</b>					<small>Record species and tag numbers. Fill tag recovery forms!</small>					

FATE CODES			
RWW	Retained - whole weight	DFR	Discarded trunk - fins retained (shark only)
RHG	Retained - headed and gutted (billfish only)	DTS	Discarded - too small (tuna only)
RGG	Retained - gilled and gutted (kept for sale)	DGD	Discarded - gear damage (tuna only)
RPT	Retained - partial (e.g. fillet, loin)	DVF	Discarded - vessel fully loaded
RCC	Retained - crew consumption (onboard)	DUS	Discarded - unwanted species
ROR	Retained - other reason (specify)	DSD	Discarded - shark damage
RFR	Retained trunk - fins retained (shark only)	DWD	Discarded - whale damage
DPA	Discarded SSI - alive	DPA	
DPD	(species of special interest) - dead	DPD	
DPU	- unknown condition	DPU	
DPQ	Discarded - poor quality		
DOR	Discarded - other reasons (specify)		
ESC	= Escaped		

(A PS-3 form **must** be filled out for the first and every set (recorded as *activity code 1* on PS-2) - whether monitored or not, even if a skunk set.) (For the very rare occasion that a set is not monitored the column for the vessel's estimate of catch must still be completed.) (N.B.: A PS-4 form is not required for skunk set.)

<b>OBSERVER NAME</b>	Print first name first and last name last. Eg.: "John Smith" not "Smith John". Print clearly !
<b>VESSEL NAME</b>	Full unabbreviated name. Eg.: a boat with name "Captain Paul Catchit" should not be abbreviated to Capt. P.Catchit.
<b>PAGE OF</b>	Number each PS-3 form from start until end of trip. Because one PS-3 is used for every set this is also the set No.
<b>OBSERVER TRIP ID No.</b>	This number is the same on all forms for a single observer trip.
<b>START of SET</b> Observer (PS-2)	The exact date and time that the observer recorded for this set on the PS-2. Record as year/month/day.
<b>DATE and TIME</b> Vessel (logsheet)	The exact date and time that the vessel has recorded for this set on their PS Log Sheet. Record as year/month/date.

<b>SET SEQUENCE</b>	<b>BEGIN SET (S KIFF OFF)</b>	Exact same time as recorded on the daily log (PS-2) and in the "Observer Start of Set Date and Time" section, above.
	<b>BEGIN PURSING (WINCH ON)</b>	The purse wire will be thrown to the vessel from the skiff, and it will then be attached to the winch. Record the time the winch is switched on.
	<b>END PURSING (RINGS UP)</b>	During the winching, a bunch of rings will come on board. Record the time when the last of the rings appears. This indicates the net has totally enclosed (pursed) the fish and they cannot escape.
	<b>BEGIN BRAILING</b>	Record the time the vessel starts the brailing process. This will have been recorded on the PS-4 form. If there was no brailing just record a dash
	<b>END BRAILING / SACK ONBOARD</b>	Record the time when the vessel finishes brailing. If there was no brailing record the time that the sack was lifted up on to the deck.
	<b>END SET (NEXT ACTIVITY START)</b>	Next activity START marks end of set (no later than 'skiff comes on board'). Record the activity change on PS-2.

<b>TOTAL CATCH and TOTAL TUNA CATCH</b>	
<b>Brail Capacity</b>	Find on the PS-1. Use to calculate total catch. <b>'Brail capacity' x 'Sum of all brails' = 'TOTAL CATCH'</b>
<b>Sum of all brails</b>	After calculating the total number of brails on the PS-4 form (for the same set) transfer your answer here.
Type 1 and	... if a 2nd brail type is also used for this set samples, estimates of the brail capacity for both brail types must be made. Fill the 'brail capacity' and the 'sum of all brail' fields for both the 'type 1' and the 'type 2' brails.
Type 2 brails	Add calculations of total catch from each brail type together to get a single "TOTAL CATCH" figure. (If there is no 'type 2' brail (which is normal) then simply record a dash in each of the 'type 2' fields and all other calculations will be based only on the 'type 1' brail information that is provided.)
<b>TOTAL CATCH</b>	This is the combined weight of all the (target and bycatch species) fish brought onboard.
<b>less bycatch</b>	Calculate the amount of bycatch (in mT) that is in the catch in the bycatch area below and transfer to this field
<b>TOTAL TUNA CATCH</b>	Subtract the total amount of bycatch from the TOTAL CATCH to get TOTAL TUNA CATCH. This includes all tuna caught whether or not it is later discarded. It does not include tuna that escaped <b>alive</b> from net.

<b>OBSERVER'S BREAKDOWN of TOTAL TUNA CAUGHT</b>	<b>YES or NO</b>	YES' or NO' <b>must</b> be circled to show if SKJ, small YFT, large YFT, small BET, large BET were even seen in the catch
<b>%</b>		Carefully eye-estimate the <b>percentage of the TOTAL TUNA</b> for each species (+ each size category for YFT and BET) N.B.: % of small (or large) YFT (or BET) is the % of <b>TOTAL TUNA</b> ! NOT % of that species of tuna.
<b>Number</b>		If there are not many large YFT or BET and good estimate of number can be made record number of large YFT (or BET) If a <b>good</b> estimate (counts) is not easy, dash the 'number' field. <b>Do not</b> make a rough estimate !

<b>SET CATCH DETAILS</b>	<b>BY-CATCH SPECIES CODE</b>	Record every species that lands on deck with the three letter FAO species code.
	<b>FATE CODE</b>	Use fate codes provided to say what happened to each species landed Use 1 line per species/fate group. Remember that a species may be split into groups each with a different fate code. Eg: RRU RWW 2 mT <b>REMEMBER</b> - use only one (the best and most informative) code for each line. RRU DTS 0.5 mT <b>NEW 2014:</b> Use the SSI FATE CODES FOR ALL SHARKS to indicate 'live' status. Use 'RFR' / 'DFR' in comments if finning observed).
	<b>OBSERVER</b>	
	<b>(mT)</b>	Calculate the amount of each species caught, in each fate code category, using an appropriate assessment technique. Use mT. For instance if 300 kg of Mahi mahi and 40 kg of wahoo were caught - record 0.3 mt DOL /0.04 mt WAH
	<b>Number</b>	Only record a number if an accurate count is possible. Large amounts are recorded in "mT". If possible record both.
	<b>VESSEL LOG</b>	
<b>(mT)</b>	Copy the figures recorded by the ship's officers on the Vessel Logsheet, for this set.	
<b>Number</b>	Place a dash in the column if they have not recorded the species.	
<b>Total weight of bycatch</b>	Calculate from the fields above for observer (important for use in 'Total Tuna' calculation) and vessel bycatch estimates	

<b>TAGS</b>	<b>TARGET TUNA</b>	
	<b>A. OBSERVER estimates of total caught</b>	Calculate the combined large and small <b>% x Total tuna catch</b> for each species (SKJ, YFT and BET)
	<b>FATE</b>	Record fate of discarded tuna or tuna retained for crew consumption (RCC), using fate codes listed at bottom of form
	<b>OBS (mT)</b>	Give a careful approximation (eye-estimate) of the total amount of catch for the relevant fate /species code combination. Record the amounts in metric tonnes.
	<b>VES (mT)</b>	Copy the weight, as recorded for each species in the vessel's logsheet. If nothing is recorded in the logsheet place a dash in the data field. If "0" is recorded on the logsheet record "0" here. <b>Record in metric tonnes.</b> Eg.: If amount on logsheet is in short tons this <b>MUST</b> be converted to metric tonnes.
	<b>B. OBSERVER totals (mT) discards + RCC</b>	For each species add together the mT amounts that are recorded in the rows 'a.', 'b.' and 'c' to get the total of all the discarded and the retained for crew consumption (RCC) combined for that species.
	<b>Tuna kept onboard for later unload</b>	Usually tuna are retained whole weight (RWW). If so then RWW can be calculated as (A. - B.) for each species. If tuna is otherwise retained onboard for later unload (fate = R??) then A. - B. = the combined total of RWW + R??
	<b>Due to gear break / bycatch mitigation</b>	ESC Best observer estimate of mT of any live tuna that escaped during set. Refer to Captain for any tuna seen escaping via sonar. Include any live tuna escaped from gear breakage or because vessel tries to release important bycatch. N.B. This does not include dead tuna that are released from the net after a breakdown during or after net sac-up = discards.
	<b>How many tags were recovered? species and tag numbers</b>	Note the number of tags found from in this set. Look out for tags on tuna, billfish, sharks, turtles, birds, etc. Record <b>tag number</b> and <b>species</b> . Note tag colour, tagging organisation and any unusual features about condition. Fill these and other tag details into the tag recovery form (and GEN-2 form if necessary).



# SPC/FFA REGIONAL PURSE SEINE OBSERVER SET DETAILS

**FORM PS - 3**

REV. MAR. 2014

OBSERVER NAME	VESSEL NAME	PAGE _____ OF _____ (SET No.)
OBSERVER TRIP I.D. NUMBER	START OF SET DATE AND TIME OBSERVER: YY MM DD hh mm (see PS-2)	START OF SET DATE AND TIME VESSEL LOG: YY MM DD hh mm

SET SEQUENCE TIMES						
EVENT:	START OF SET (SKIFF OFF)	BEGIN PURSING (WINCH ON)	END PURSING (RINGS UP)	BEGIN BRAILING	END OF BRAILING / SACK ONBOARD	END OF SET (NEXT ACTIVITY START)
TIME:						

SET CATCH DETAILS													
OBSERVER'S BREAKDOWN OF TOTAL TUNA CAUGHT <small>- circle YES or NO for each species</small>										N.B.: these calculations include all the tuna in this catch, whether retained or discarded			
brail capacity ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT <small>Type 1 brail (see PS-1 form)</small>		sum of all brails ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT <small>(see PS-4 form)</small>		Total catch less bycatch (see below) = Total tuna catch <input type="text"/> mT		<b>SKIP-JACK</b>		<b>YELLOWFIN</b> SMALL (< 75 cm)      LARGE (> 75 cm)			<b>BIGEYE</b> SMALL (< 75 cm)      LARGE (> 75 cm)		
YES	(%)	YES	(%)	YES	(%)	NUMBER	YES	(%)	YES	(%)	NUMBER		
NO		NO		NO			NO		NO				

BY-CATCH (ALL NON-TARGET SPECIES)						TARGET TUNA			
SPECIES CODE	FATE CODE	OBSERVER No. (mT)	VESSEL LOG No. (mT)	COMMENTS	A. OBSERVER estimates of total of each species caught (mT)	SKJ	YFT	BET	
					Observer	FATE			
						a. (mT)			
					Vessel	FATE			
						(mT)			
					Observer	FATE			
						b. (mT)			
					Vessel	FATE			
						(mT)			
					Observer	FATE			
						c. (mT)			
					Vessel	FATE			
						(mT)			
Total weight of bycatch: _____ mT					B. OBSERVER totals (mT) discards + RCC (a+b+c):				
Comments					Tuna kept onboard for later unload if not RWW	FATE			
						OBS (mT)			
						VES (mT)			
					FATE	RWW	RWW	RWW	
					Due to gear break / bycatch mitigation	ESC	ESC	ESC	
						OBS (mT)			
TAGS - How many Tags were recovered?					estimates	VES (mT)			

FATE CODES			
RWW	Retained - whole weight	DFR	Discarded trunk - fins retained (shark only)
RHG	Retained - headed and gutted (billfish only)	DTS	Discarded - too small (tuna only)
RGG	Retained - gilled and gutted (kept for sale)	DGD	Discarded - gear damage (tuna only)
RPT	Retained - partial (e.g. fillet, loin)	DVF	Discarded - vessel fully loaded
RCC	Retained - crew consumption (onboard)	DUS	Discarded - unwanted species
ROR	Retained - other reason (specify)	DSD	Discarded - shark damage
RFR	Retained trunk - fins retained (shark only)	DWD	Discarded - whale damage
DPA	Discarded SSI - alive	DPA	
DPD	(species of special interest) - dead	DPD	
DPU	- unknown condition	DPU	
DPQ	Discarded - poor quality		
DOR	Discarded - other reasons (specify)		
ESC	= Escaped		

(A PS-3 form **must** be filled out for the first and every set (recorded as *activity code 1* on PS-2) - whether monitored or not, even if a skunk set.) (For the very rare occasion that a set is not monitored the column for the vessel's estimate of catch must still be completed.) (N.B.: A PS-4 form is not required for skunk set.)

<b>OBSERVER NAME</b>	Print first name first and last name last. Eg.: "John Smith" not "Smith John". Print clearly !
<b>VESSEL NAME</b>	Full unabbreviated name. Eg.: a boat with name "Captain Paul Catchit" should not be abbreviated to Capt. P.Catchit.
<b>PAGE OF</b>	Number each PS-3 form from start until end of trip. Because one PS-3 is used for every set this is also the set No.
<b>OBSERVER TRIP ID No.</b>	This number is the same on all forms for a single observer trip.
<b>START of SET</b> Observer (PS-2)	The exact date and time that the observer recorded for this set on the PS-2. Record as year/month/day.
<b>DATE and TIME</b> Vessel (logsheet)	The exact date and time that the vessel has recorded for this set on their PS Log Sheet. Record as year/month/date.

<b>SET SEQUENCE</b>	<b>BEGIN SET (S KIFF OFF)</b>	Exact same time as recorded on the daily log (PS-2) and in the "Observer Start of Set Date and Time" section, above.
	<b>BEGIN PURSING (WINCH ON)</b>	The purse wire will be thrown to the vessel from the skiff, and it will then be attached to the winch. Record the time the winch is switched on.
	<b>END PURSING (RINGS UP)</b>	During the winching, a bunch of rings will come on board. Record the time when the last of the rings appears. This indicates the net has totally enclosed (pursed) the fish and they cannot escape.
	<b>BEGIN BRAILING</b>	Record the time the vessel starts the brailing process. This will have been recorded on the PS-4 form. If there was no brailing just record a dash
	<b>END BRAILING / SACK ONBOARD</b>	Record the time when the vessel finishes brailing. If there was no brailing record the time that the sack was lifted up on to the deck.
	<b>END SET (NEXT ACTIVITY START)</b>	Next activity START marks end of set (no later than 'skiff comes on board'). Record the activity change on PS-2.

<b>TOTAL CATCH and TOTAL TUNA CATCH</b>	
<b>Brail Capacity</b>	Find on the PS-1. Use to calculate total catch. <b>'Brail capacity' x 'Sum of all brails' = 'TOTAL CATCH'</b>
<b>Sum of all brails</b>	After calculating the total number of brails on the PS-4 form (for the same set) transfer your answer here.
Type 1 and	... if a 2nd brail type is also used for this set samples, estimates of the brail capacity for both brail types must be made. Fill the 'brail capacity' and the 'sum of all brail' fields for both the 'type 1' and the 'type 2' brails.
Type 2 brails	Add calculations of total catch from each brail type together to get a single "TOTAL CATCH" figure. (If there is no 'type 2' brail (which is normal) then simply record a dash in each of the 'type 2' fields and all other calculations will be based only on the 'type 1' brail information that is provided.)
<b>TOTAL CATCH</b>	This is the combined weight of all the (target and bycatch species) fish brought onboard.
<b>less bycatch</b>	Calculate the amount of bycatch (in mT) that is in the catch in the bycatch area below and transfer to this field
<b>TOTAL TUNA CATCH</b>	Subtract the total amount of bycatch from the TOTAL CATCH to get TOTAL TUNA CATCH. This includes all tuna caught whether or not it is later discarded. It does not include tuna that escaped <b>alive</b> from net.

<b>OBSERVER'S BREAKDOWN of TOTAL TUNA CAUGHT</b>	<b>YES or NO</b>	YES' or NO' <b>must</b> be circled to show if SKJ, small YFT, large YFT, small BET, large BET were even seen in the catch
<b>%</b>		Carefully eye-estimate the <b>percentage of the TOTAL TUNA</b> for each species (+ each size category for YFT and BET) N.B.: % of small (or large) YFT (or BET) is the % of <b>TOTAL TUNA</b> ! NOT % of that species of tuna.
<b>Number</b>		If there are not many large YFT or BET and good estimate of number can be made record number of large YFT (or BET) If a <b>good</b> estimate (counts) is not easy, dash the 'number' field. <b>Do not</b> make a rough estimate !

<b>SET CATCH DETAILS</b>	<b>BY-CATCH SPECIES CODE</b>	Record every species that lands on deck with the three letter FAO species code.
	<b>FATE CODE</b>	Use fate codes provided to say what happened to each species landed Use 1 line per species/fate group. Remember that a species may be split into groups each with a different fate code. Eg: RRU RWW 2 mT <b>REMEMBER</b> - use only one (the best and most informative) code for each line. RRU DTS 0.5 mT <b>NEW 2014:</b> Use the SSI FATE CODES FOR ALL SHARKS to indicate 'live' status. Use 'RFR' / 'DFR' in comments if finning observed).
	<b>OBSERVER</b>	
	<b>(mT)</b>	Calculate the amount of each species caught, in each fate code category, using an appropriate assessment technique. Use mT. For instance if 300 kg of Mahi mahi and 40 kg of wahoo were caught - record 0.3 mt DOL /0.04 mt WAH
	<b>Number</b>	Only record a number if an accurate count is possible. Large amounts are recorded in "mT". If possible record both.
	<b>VESSEL LOG</b>	
<b>(mT)</b>	Copy the figures recorded by the ship's officers on the Vessel Logsheet, for this set.	
<b>Number</b>	Place a dash in the column if they have not recorded the species.	
<b>Total weight of bycatch</b>	Calculate from the fields above for observer (important for use in 'Total Tuna' calculation) and vessel bycatch estimates	

<b>TAGS</b>	<b>TARGET TUNA</b>	
	<b>A. OBSERVER estimates of total caught</b>	Calculate the combined large and small <b>% x Total tuna catch</b> for each species (SKJ, YFT and BET)
	<b>FATE</b>	Record fate of discarded tuna or tuna retained for crew consumption (RCC), using fate codes listed at bottom of form
	<b>OBS (mT)</b>	Give a careful approximation (eye-estimate) of the total amount of catch for the relevant fate /species code combination. Record the amounts in metric tonnes.
	<b>VES (mT)</b>	Copy the weight, as recorded for each species in the vessel's logsheet. If nothing is recorded in the logsheet place a dash in the data field. If "0" is recorded on the logsheet record "0" here. <b>Record in metric tonnes.</b> Eg.: If amount on logsheet is in short tons this <b>MUST</b> be converted to metric tonnes.
	<b>B. OBSERVER totals (mT) discards + RCC</b>	For each species add together the mT amounts that are recorded in the rows 'a.', 'b.' and 'c' to get the total of all the discarded and the retained for crew consumption (RCC) combined for that species.
	<b>Tuna kept onboard for later unload</b>	Usually tuna are retained whole weight (RWW). If so then RWW can be calculated as (A. - B.) for each species. If tuna is otherwise retained onboard for later unload (fate = R??) then A. - B. = the combined total of RWW + R??
	<b>Due to gear break / bycatch mitigation</b>	ESC Best observer estimate of mT of any live tuna that escaped during set. Refer to Captain for any tuna seen escaping via sonar. Include any live tuna escaped from gear breakage or because vessel tries to release important bycatch. N.B. This does not include dead tuna that are released from the net after a breakdown during or after net sac-up = discards.
	<b>How many tags were recovered? species and tag numbers</b>	Note the number of tags found from in this set. Look out for tags on tuna, billfish, sharks, turtles, birds, etc. Record <b>tag number</b> and <b>species</b> . Note tag colour, tagging organisation and any unusual features about condition. Fill these and other tag details into the tag recovery form (and GEN-2 form if necessary).



(A PS-3 form **must** be filled out for the first and every set (recorded as *activity code 1* on PS-2) - whether monitored or not, even if a skunk set.) (For the very rare occasion that a set is not monitored the column for the vessel's estimate of catch must still be completed.) (N.B.: A PS-4 form is not required for skunk set.)

<b>OBSERVER NAME</b>	Print first name first and last name last. Eg.: "John Smith" not "Smith John". Print clearly !
<b>VESSEL NAME</b>	Full unabbreviated name. Eg.: a boat with name "Captain Paul Catchit" should not be abbreviated to Capt. P.Catchit.
<b>PAGE OF</b>	Number each PS-3 form from start until end of trip. Because one PS-3 is used for every set this is also the set No.
<b>OBSERVER TRIP ID No.</b>	This number is the same on all forms for a single observer trip.
<b>START of SET</b> Observer (PS-2)	The exact date and time that the observer recorded for this set on the PS-2. Record as year/month/day.
<b>DATE and TIME</b> Vessel (logsheet)	The exact date and time that the vessel has recorded for this set on their PS Log Sheet. Record as year/month/date.

<b>SET SEQUENCE</b>	<b>BEGIN SET (S KIFF OFF)</b>	Exact same time as recorded on the daily log (PS-2) and in the "Observer Start of Set Date and Time" section, above.
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	<b>END BRAILING / SACK ONBOARD</b>	Record the time when the vessel finishes brailing. If there was no brailing record the time that the sack was lifted up on to the deck.
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<b>TOTAL CATCH less bycatch</b>	This is the combined weight of all the (target and bycatch species) fish brought onboard. Calculate the amount of bycatch (in mT) that is in the catch in the bycatch area below and transfer to this field
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<b>TAGS</b>	<b>TARGET TUNA</b>	
	<b>A. OBSERVER estimates of total caught</b>	Calculate the combined large and small <b>% x Total tuna catch</b> for each species (SKJ, YFT and BET)
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	<b>VES (mT)</b>	Copy the weight, as recorded for each species in the vessel's logsheet. If nothing is recorded in the logsheet place a dash in the data field. If "0" is recorded on the logsheet record "0" here. <b>Record in metric tonnes.</b> Eg.: If amount on logsheet is in short tons this <b>MUST</b> be converted to metric tonnes.
	<b>B. OBSERVER totals (mT) discards + RCC</b>	For each species add together the mT amounts that are recorded in the rows 'a.', 'b.' and 'c' to get the total of all the discarded and the retained for crew consumption (RCC) combined for that species.
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	<b>How many tags were recovered? species and tag numbers</b>	Note the number of tags found from in this set. Look out for tags on tuna, billfish, sharks, turtles, birds, etc. Record <b>tag number</b> and <b>species</b> . Note tag colour, tagging organisation and any unusual features about condition. Fill these and other tag details into the tag recovery form (and GEN-2 form if necessary).

**SPC/FFA REGIONAL PURSE SEINE OBSERVER  
SET DETAILS**

**FORM PS - 3**

REV. MAR. 2014

OBSERVER NAME	VESSEL NAME	PAGE	OF
			(SET No.)
OBSERVER TRIP I.D. NUMBER	START OF SET DATE AND TIME OBSERVER: YY MM DD hh mm (see PS-2)		START OF SET DATE AND TIME VESSEL LOG: YY MM DD hh mm

SET SEQUENCE TIMES						
EVENT:	START OF SET (SKIFF OFF)	BEGIN PURSING (WINCH ON)	END PURSING (RINGS UP)	BEGIN BRAILING	END OF BRAILING / SACK ONBOARD	END OF SET (NEXT ACTIVITY START)
TIME:						

SET CATCH DETAILS															
brail capacity		sum of all brails		Total catch		OBSERVER'S BREAKDOWN OF TOTAL TUNA CAUGHT <small>- circle YES or NO for each species</small>						<small>N.B.: these calculations include all the tuna in this catch, whether retained or discarded</small>			
( <input type="text"/> mT )	x	( <input type="text"/> )	=	( <input type="text"/> )	mT	=>	<b>SKIP-JACK</b>	<b>YELLOWFIN</b>				<b>BIGEYE</b>			
<small>Type 1 brail (see PS-1 form)</small>		<small>(see PS-4 form)</small>		<small>less bycatch (see below)</small>	<small>mT</small>			<small>SMALL (&lt; 75 cm)</small>	<small>LARGE (&gt; 75 cm)</small>	<small>SMALL (&lt; 75 cm)</small>	<small>LARGE (&gt; 75 cm)</small>	<small>NUMBER</small>	<small>NUMBER</small>	<small>NUMBER</small>	<small>NUMBER</small>
( <input type="text"/> mT )	+	( <input type="text"/> )	=	<b>Total tuna catch</b>	<b>mT</b>		YES (%)	NO (%)	YES (%)	NO (%)	YES (%)	NO (%)	YES (%)	NO (%)	
<small>type 2 brail (see PS-1 form)</small>	x	( <input type="text"/> )					NO		NO		NO		NO		

BY-CATCH (ALL NON-TARGET SPECIES)						TARGET TUNA			
SPECIES CODE	FATE CODE	OBSERVER No. (mT)	VESSEL LOG No. (mT)	COMMENTS	A. OBSERVER estimates of total of each species caught (mT)	SKJ	YFT	BET	
					Observer	FATE			
						a. (mT)			
					Vessel	FATE			
						(mT)			
					Observer	FATE			
						b. (mT)			
					Vessel	FATE			
						(mT)			
					Observer	FATE			
						c. (mT)			
					Vessel	FATE			
						(mT)			
Total weight of bycatch: _____ mT					B. OBSERVER totals (mT) discards + RCC (a+b+c):				
Comments					Tuna kept onboard for later unload if not RWW	FATE			
						OBS (mT)			
						VES (mT)			
					FATE	RWW	RWW	RWW	
					estimates	OBS (mT)			
						VES (mT)			
						Due to gear break / bycatch mitigation	ESC	ESC	ESC
<b>TAGS - How many Tags were recovered?</b>					<small>Record species and tag numbers. Fill tag recovery forms!</small>				
						OBS (mT)			
						VES (mT)			

FATE CODES			
RWW	Retained - whole weight	DFR	Discarded trunk - fins retained (shark only)
RHG	Retained - headed and gutted (billfish only)	DTS	Discarded - too small (tuna only)
RGG	Retained - gilled and gutted (kept for sale)	DGD	Discarded - gear damage (tuna only)
RPT	Retained - partial (e.g. fillet, loin)	DVF	Discarded - vessel fully loaded
RCC	Retained - crew consumption (onboard)	DUS	Discarded - unwanted species
ROR	Retained - other reason (specify)	DSD	Discarded - shark damage
RFR	Retained trunk - fins retained (shark only)	DWD	Discarded - whale damage
DPA	Discarded SSI - alive	DPA	
DPD	(species of special interest) - dead	DPD	
DPU	- unknown condition	DPU	
DPQ	Discarded - poor quality		
DOR	Discarded - other reasons (specify)		
ESC	= Escaped		



(A PS-3 form **must** be filled out for the first and every set (recorded as *activity code 1* on PS-2) - whether monitored or not, even if a skunk set.) (For the very rare occasion that a set is not monitored the column for the vessel's estimate of catch must still be completed.) (N.B.: A PS-4 form is not required for skunk set.)

<b>OBSERVER NAME</b>	Print first name first and last name last. Eg.: "John Smith" not "Smith John". Print clearly !
<b>VESSEL NAME</b>	Full unabbreviated name. Eg.: a boat with name "Captain Paul Catchit" should not be abbreviated to Capt. P.Catchit.
<b>PAGE OF</b>	Number each PS-3 form from start until end of trip. Because one PS-3 is used for every set this is also the set No.
<b>OBSERVER TRIP ID No.</b>	This number is the same on all forms for a single observer trip.
<b>START of SET</b> Observer (PS-2)	The exact date and time that the observer recorded for this set on the PS-2. Record as year/month/day.
<b>DATE and TIME</b> Vessel (logsheet)	The exact date and time that the vessel has recorded for this set on their PS Log Sheet. Record as year/month/date.

<b>SET SEQUENCE</b>	<b>BEGIN SET (S KIFF OFF)</b>	Exact same time as recorded on the daily log (PS-2) and in the "Observer Start of Set Date and Time" section, above.
	<b>BEGIN PURSING (WINCH ON)</b>	The purse wire will be thrown to the vessel from the skiff, and it will then be attached to the winch. Record the time the winch is switched on.
	<b>END PURSING (RINGS UP)</b>	During the winching, a bunch of rings will come on board. Record the time when the last of the rings appears. This indicates the net has totally enclosed (pursed) the fish and they cannot escape.
	<b>BEGIN BRAILING</b>	Record the time the vessel starts the brailing process. This will have been recorded on the PS-4 form. If there was no brailing just record a dash
	<b>END BRAILING / SACK ONBOARD</b>	Record the time when the vessel finishes brailing. If there was no brailing record the time that the sack was lifted up on to the deck.
	<b>END SET (NEXT ACTIVITY START)</b>	Next activity START marks end of set (no later than 'skiff comes on board'). Record the activity change on PS-2.

<b>TOTAL CATCH and TOTAL TUNA CATCH</b>	
<b>Brail Capacity</b>	Find on the PS-1. Use to calculate total catch. <b>'Brail capacity' x 'Sum of all brails' = 'TOTAL CATCH'</b>
<b>Sum of all brails</b>	After calculating the total number of brails on the PS-4 form (for the same set) transfer your answer here.
Type 1 and Type 2 brails	... if a 2nd brail type is also used for this set samples, estimates of the brail capacity for both brail types must be made. Fill the 'brail capacity' and the 'sum of all brail' fields for both the 'type 1' and the 'type 2' brails. Add calculations of total catch from each brail type together to get a single "TOTAL CATCH" figure. (If there is no 'type 2' brail (which is normal) then simply record a dash in each of the 'type 2' fields and all other calculations will be based only on the 'type 1' brail information that is provided.)
<b>TOTAL CATCH less bycatch</b>	This is the combined weight of all the (target and bycatch species) fish brought onboard. Calculate the amount of bycatch (in mT) that is in the catch in the bycatch area below and transfer to this field
<b>TOTAL TUNA CATCH</b>	Subtract the total amount of bycatch from the TOTAL CATCH to get TOTAL TUNA CATCH. This includes all tuna caught whether or not it is later discarded. It does not include tuna that escaped <b>alive</b> from net.

<b>OBSERVER'S BREAKDOWN of TOTAL TUNA CAUGHT</b>	<b>YES or NO</b>	YES' or NO' <b>must</b> be circled to show if SKJ, small YFT, large YFT, small BET, large BET were even seen in the catch
<b>%</b>		Carefully eye-estimate the <b>percentage of the TOTAL TUNA</b> for each species (+ each size category for YFT and BET) N.B.: % of small (or large) YFT (or BET) is the % of <b>TOTAL TUNA</b> ! NOT % of that species of tuna.
<b>Number</b>		If there are not many large YFT or BET and good estimate of number can be made record number of large YFT (or BET) If a <b>good</b> estimate (counts) is not easy, dash the 'number' field. <b>Do not</b> make a rough estimate !

<b>SET CATCH DETAILS</b>	<b>BY-CATCH SPECIES CODE</b>	Record every species that lands on deck with the three letter FAO species code.
	<b>FATE CODE</b>	Use fate codes provided to say what happened to each species landed Use 1 line per species/fate group. Remember that a species may be split into groups each with a different fate code. Eg: RRU RWW 2 mT <b>REMEMBER</b> - use only one (the best and most informative) code for each line. RRU DTS 0.5 mT <b>NEW 2014:</b> Use the SSI FATE CODES FOR ALL SHARKS to indicate 'live' status. Use 'RFR' / 'DFR' in comments if finning observed).
	<b>OBSERVER (mT)</b>	Calculate the amount of each species caught, in each fate code category, using an appropriate assessment technique. Use mT. For instance if 300 kg of Mahi mahi and 40 kg of wahoo were caught - record 0.3 mt DOL /0.04 mt WAH
	<b>Number</b>	Only record a number if an accurate count is possible. Large amounts are recorded in "mT". If possible record both.
	<b>VESSEL LOG (mT)</b>	Copy the figures recorded by the ship's officers on the Vessel Logsheet, for this set.
	<b>Number</b>	Place a dash in the column if they have not recorded the species.
<b>Total weight of bycatch</b>	Calculate from the fields above for observer (important for use in 'Total Tuna' calculation) and vessel bycatch estimates	

<b>TAGS</b>	<b>TARGET TUNA</b>	
	<b>A. OBSERVER estimates of total caught</b>	Calculate the combined large and small <b>% x Total tuna catch</b> for each species (SKJ, YFT and BET)
	<b>FATE</b>	Record fate of discarded tuna or tuna retained for crew consumption (RCC), using fate codes listed at bottom of form
	<b>OBS (mT)</b>	Give a careful approximation (eye-estimate) of the total amount of catch for the relevant fate /species code combination. Record the amounts in metric tonnes.
	<b>VES (mT)</b>	Copy the weight, as recorded for each species in the vessel's logsheet. If nothing is recorded in the logsheet place a dash in the data field. If "0" is recorded on the logsheet record "0" here. <b>Record in metric tonnes.</b> Eg.: If amount on logsheet is in short tons this <b>MUST</b> be converted to metric tonnes.
	<b>B. OBSERVER totals (mT) discards + RCC</b>	For each species add together the mT amounts that are recorded in the rows 'a.', 'b.' and 'c' to get the total of all the discarded and the retained for crew consumption (RCC) combined for that species.
	<b>Tuna kept onboard for later unload</b>	Usually tuna are retained whole weight (RWW). If so then RWW can be calculated as (A. - B.) for each species. If tuna is otherwise retained onboard for later unload (fate = R??) then A. - B. = the combined total of RWW + R??
	<b>Due to gear break / bycatch mitigation</b>	ESC Best observer estimate of mT of any live tuna that escaped during set. Refer to Captain for any tuna seen escaping via sonar. Include any live tuna escaped from gear breakage or because vessel tries to release important bycatch. N.B. This does not include dead tuna that are released from the net after a breakdown during or after net sac-up = discards.
	<b>How many tags were recovered? species and tag numbers</b>	Note the number of tags found from in this set. Look out for tags on tuna, billfish, sharks, turtles, birds, etc. Record <b>tag number</b> and <b>species</b> . Note tag colour, tagging organisation and any unusual features about condition. Fill these and other tag details into the tag recovery form (and GEN-2 form if necessary).

# SPC/FFA REGIONAL PURSE SEINE OBSERVER SET DETAILS

**FORM PS - 3**

REV. MAR. 2014

OBSERVER NAME	VESSEL NAME	PAGE _____ OF _____ (SET No.)
OBSERVER TRIP I.D. NUMBER	START OF SET DATE AND TIME OBSERVER: YY MM DD hh mm (see PS-2)	START OF SET DATE AND TIME VESSEL LOG: YY MM DD hh mm

SET SEQUENCE TIMES						
EVENT:	START OF SET (SKIFF OFF)	BEGIN PURSING (WINCH ON)	END PURSING (RINGS UP)	BEGIN BRAILING	END OF BRAILING / SACK ONBOARD	END OF SET (NEXT ACTIVITY START)
TIME:						

SET CATCH DETAILS											
OBSERVER'S BREAKDOWN OF TOTAL TUNA CAUGHT <small>- circle YES or NO for each species</small>										N.B.: these calculations include all the tuna in this catch, whether retained or discarded	
<b>brail capacity</b> ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT <small>Type 1 brail (see PS-1 form)</small>		<b>sum of all brails</b> ( <input type="text"/> mT x <input type="text"/> ) + <input type="text"/> mT <small>(see PS-4 form)</small>		<b>Total catch</b> less bycatch (see below) = <input type="text"/> mT = <b>Total tuna catch</b> <input type="text"/> mT		<b>SKIP-JACK</b> YES (%) NO		<b>YELLOWFIN</b> SMALL (< 75 cm) LARGE (> 75 cm) YES (%) NO		<b>BIGEYE</b> SMALL (< 75 cm) LARGE (> 75 cm) YES (%) NO	

BY-CATCH (ALL NON-TARGET SPECIES)					TARGET TUNA					
SPECIES CODE	FATE CODE	OBSERVER No. (mT)	VESSEL LOG No. (mT)	COMMENTS	A. OBSERVER estimates of total of each species caught (mT)			SKJ	YFT	BET
						Observer	FATE			
						Observer	a. (mT)			
						Vessel	FATE			
						Vessel	(mT)			
						Observer	FATE			
						Observer	b. (mT)			
						Vessel	FATE			
						Vessel	(mT)			
						Observer	FATE			
						Observer	c. (mT)			
						Vessel	FATE			
						Vessel	(mT)			
Total weight of bycatch: _____ mT					B. OBSERVER totals (mT) discards + RCC (a+b+c): _____					
Comments						Tuna kept onboard for later unload if not RWW	FATE			
							OBS (mT)			
						Tuna kept onboard for later unload if not RWW	VES (mT)			
							FATE	RWW	RWW	RWW
						Tuna kept onboard for later unload if not RWW	OBS (mT)			
							VES (mT)			
						Due to gear break / bycatch mitigation	ESC	ESC	ESC	
							OBS (mT)			
TAGS - How many Tags were recovered?						estimates	VES (mT)			

FATE CODES			
RWW	Retained - whole weight	DFR	Discarded trunk - fins retained (shark only)
RHG	Retained - headed and gutted (billfish only)	DTS	Discarded - too small (tuna only)
RGG	Retained - gilled and gutted (kept for sale)	DGD	Discarded - gear damage (tuna only)
RPT	Retained - partial (e.g. fillet, loin)	DVF	Discarded - vessel fully loaded
RCC	Retained - crew consumption (onboard)	DUS	Discarded - unwanted species
ROR	Retained - other reason (specify)	DSD	Discarded - shark damage
RFR	Retained trunk - fins retained (shark only)	DWD	Discarded - whale damage
DPA	Discarded SSI - alive	DPA	
DPD	(species of special interest) - dead	DPD	
DPU	- unknown condition	DPU	
DPQ	Discarded - poor quality		
DOR	Discarded - other reasons (specify)		
ESC	= Escaped		

(A PS-3 form **must** be filled out for the first and every set (recorded as *activity code 1* on PS-2) - whether monitored or not, even if a skunk set.) (For the very rare occasion that a set is not monitored the column for the vessel's estimate of catch must still be completed.) (N.B.: A PS-4 form is not required for skunk set.)

<b>OBSERVER NAME</b>	Print first name first and last name last. Eg.: "John Smith" not "Smith John". Print clearly !
<b>VESSEL NAME</b>	Full unabbreviated name. Eg.: a boat with name "Captain Paul Catchit" should not be abbreviated to Capt. P.Catchit.
<b>PAGE OF</b>	Number each PS-3 form from start until end of trip. Because one PS-3 is used for every set this is also the set No.
<b>OBSERVER TRIP ID No.</b>	This number is the same on all forms for a single observer trip.
<b>START of SET</b> Observer (PS-2)	The exact date and time that the observer recorded for this set on the PS-2. Record as year/month/day.
<b>DATE and TIME</b> Vessel (logsheet)	The exact date and time that the vessel has recorded for this set on their PS Log Sheet. Record as year/month/date.

<b>SET SEQUENCE</b>	<b>BEGIN SET (S KIFF OFF)</b>	Exact same time as recorded on the daily log (PS-2) and in the "Observer Start of Set Date and Time" section, above.
	<b>BEGIN PURSING (WINCH ON)</b>	The purse wire will be thrown to the vessel from the skiff, and it will then be attached to the winch. Record the time the winch is switched on.
	<b>END PURSING (RINGS UP)</b>	During the winching, a bunch of rings will come on board. Record the time when the last of the rings appears. This indicates the net has totally enclosed (pursed) the fish and they cannot escape.
	<b>BEGIN BRAILING</b>	Record the time the vessel starts the brailing process. This will have been recorded on the PS-4 form. If there was no brailing just record a dash
	<b>END BRAILING / SACK ONBOARD</b>	Record the time when the vessel finishes brailing. If there was no brailing record the time that the sack was lifted up on to the deck.
	<b>END SET (NEXT ACTIVITY START)</b>	Next activity START marks end of set (no later than 'skiff comes on board'). Record the activity change on PS-2.

<b>TOTAL CATCH and TOTAL TUNA CATCH</b>	
<b>Brail Capacity</b>	Find on the PS-1. Use to calculate total catch. <b>'Brail capacity' x 'Sum of all brails' = 'TOTAL CATCH'</b>
<b>Sum of all brails</b>	After calculating the total number of brails on the PS-4 form (for the same set) transfer your answer here.
Type 1 and Type 2 brails	... if a 2nd brail type is also used for this set samples, estimates of the brail capacity for both brail types must be made. Fill the 'brail capacity' and the 'sum of all brail' fields for both the 'type 1' and the 'type 2' brails. Add calculations of total catch from each brail type together to get a single "TOTAL CATCH" figure. (If there is no 'type 2' brail (which is normal) then simply record a dash in each of the 'type 2' fields and all other calculations will be based only on the 'type 1' brail information that is provided.)
<b>TOTAL CATCH less bycatch</b>	This is the combined weight of all the (target and bycatch species) fish brought onboard. Calculate the amount of bycatch (in mT) that is in the catch in the bycatch area below and transfer to this field
<b>TOTAL TUNA CATCH</b>	Subtract the total amount of bycatch from the TOTAL CATCH to get TOTAL TUNA CATCH. This includes all tuna caught whether or not it is later discarded. It does not include tuna that escaped <b>alive</b> from net.

<b>OBSERVER'S BREAKDOWN of TOTAL TUNA CAUGHT</b>	<b>YES or NO</b>	YES' or NO' <b>must</b> be circled to show if SKJ, small YFT, large YFT, small BET, large BET were even seen in the catch
<b>%</b>		Carefully eye-estimate the <b>percentage of the TOTAL TUNA</b> for each species (+ each size category for YFT and BET) N.B.: % of small (or large) YFT (or BET) is the % of <b>TOTAL TUNA</b> ! NOT % of that species of tuna.
<b>Number</b>		If there are not many large YFT or BET and good estimate of number can be made record number of large YFT (or BET) If a <b>good</b> estimate (counts) is not easy, dash the 'number' field. <b>Do not</b> make a rough estimate !

<b>SET CATCH DETAILS</b>	<b>BY-CATCH SPECIES CODE</b>	Record every species that lands on deck with the three letter FAO species code.
	<b>FATE CODE</b>	Use fate codes provided to say what happened to each species landed Use 1 line per species/fate group. Remember that a species may be split into groups each with a different fate code. Eg: RRU RWW 2 mT <b>REMEMBER</b> - use only one (the best and most informative) code for each line. RRU DTS 0.5 mT <b>NEW 2014:</b> Use the SSI FATE CODES FOR ALL SHARKS to indicate 'live' status. Use 'RFR' / 'DFR' in comments if finning observed).
	<b>OBSERVER (mT)</b>	Calculate the amount of each species caught, in each fate code category, using an appropriate assessment technique. Use mT. For instance if 300 kg of Mahi mahi and 40 kg of wahoo were caught - record 0.3 mt DOL /0.04 mt WAH
	<b>Number</b>	Only record a number if an accurate count is possible. Large amounts are recorded in "mT". If possible record both.
	<b>VESSEL LOG (mT)</b>	Copy the figures recorded by the ship's officers on the Vessel Logsheet, for this set.
	<b>Number</b>	Place a dash in the column if they have not recorded the species.
<b>Total weight of bycatch</b>	Calculate from the fields above for observer (important for use in 'Total Tuna' calculation) and vessel bycatch estimates	

<b>TAGS</b>	<b>TARGET TUNA</b>	
	<b>A. OBSERVER estimates of total caught</b>	Calculate the combined large and small <b>% x Total tuna catch</b> for each species (SKJ, YFT and BET)
	<b>FATE</b>	Record fate of discarded tuna or tuna retained for crew consumption (RCC), using fate codes listed at bottom of form
	<b>OBS (mT)</b>	Give a careful approximation (eye-estimate) of the total amount of catch for the relevant fate /species code combination. Record the amounts in metric tonnes.
	<b>VES (mT)</b>	Copy the weight, as recorded for each species in the vessel's logsheet. If nothing is recorded in the logsheet place a dash in the data field. If "0" is recorded on the logsheet record "0" here. <b>Record in metric tonnes.</b> Eg.: If amount on logsheet is in short tons this <b>MUST</b> be converted to metric tonnes.
	<b>B. OBSERVER totals (mT) discards + RCC</b>	For each species add together the mT amounts that are recorded in the rows 'a.', 'b.' and 'c' to get the total of all the discarded and the retained for crew consumption (RCC) combined for that species.
	<b>Tuna kept onboard for later unload</b>	Usually tuna are retained whole weight (RWW). If so then RWW can be calculated as (A. - B.) for each species. If tuna is otherwise retained onboard for later unload (fate = R??) then A. - B. = the combined total of RWW + R??
	<b>Due to gear break / bycatch mitigation</b>	ESC Best observer estimate of mT of any live tuna that escaped during set. Refer to Captain for any tuna seen escaping via sonar. Include any live tuna escaped from gear breakage or because vessel tries to release important bycatch. N.B. This does not include dead tuna that are released from the net after a breakdown during or after net sac-up = discards.
	<b>How many tags were recovered? species and tag numbers</b>	Note the number of tags found from in this set. Look out for tags on tuna, billfish, sharks, turtles, birds, etc. Record <b>tag number</b> and <b>species</b> . Note tag colour, tagging organisation and any unusual features about condition. Fill these and other tag details into the tag recovery form (and GEN-2 form if necessary).

# SPC/FFA REGIONAL PURSE SEINE OBSERVER SET DETAILS

**FORM PS - 3**

REV. MAR. 2014

OBSERVER NAME	VESSEL NAME	PAGE _____ OF _____ (SET No.)
OBSERVER TRIP I.D. NUMBER	START OF SET DATE AND TIME OBSERVER:      YY   MM   DD      hh   mm (see PS-2) <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	START OF SET DATE AND TIME VESSEL LOG:      YY   MM   DD      hh   mm <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>

SET SEQUENCE TIMES						
EVENT:	START OF SET (SKIFF OFF)	BEGIN PURSING (WINCH ON)	END PURSING (RINGS UP)	BEGIN BRAILING	END OF BRAILING / SACK ONBOARD	END OF SET (NEXT ACTIVITY START)
TIME:						

SET CATCH DETAILS											
OBSERVER'S BREAKDOWN OF TOTAL TUNA CAUGHT <small>- circle YES or NO for each species</small>										N.B.: these calculations include all the tuna in this catch, whether retained or discarded	
brail capacity ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT <small>Type 1 brail (see PS-1 form)</small>		sum of all brails ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT <small>(see PS-4 form)</small>		Total catch less bycatch (see below)		= Total tuna catch <input type="text"/> mT					
SKIP-JACK		YELLOWFIN				BIGEYE					
		SMALL (< 75 cm)		LARGE (> 75 cm)		SMALL (< 75 cm)		LARGE (> 75 cm)			
YES	(%)	YES	(%)	YES	(%)	NUMBER	YES	(%)	YES	(%)	NUMBER
NO		NO		NO			NO		NO		

BY-CATCH (ALL NON-TARGET SPECIES)						TARGET TUNA				
SPECIES CODE	FATE CODE	OBSERVER No. (mT)	VESSEL LOG No. (mT)	COMMENTS	A. OBSERVER estimates of total of each species caught (mT)					
					Observer	Vessel	Observer	Vessel	Observer	Vessel
						SKJ	YFT	BET		
Total weight of bycatch: _____ mT						B. OBSERVER totals (mT) discards + RCC (a+b+c): _____				
Comments						Tuna kept onboard for later unload if not RWW	FATE			
							OBS (mT)			
VES (mT)										
						estimates	FATE	RWW	RWW	RWW
							OBS (mT)			
							VES (mT)			
						Due to gear break / bycatch mitigation		ESC	ESC	ESC
						OBS (mT)				
TAGS - How many Tags were recovered?						Record species and tag numbers. Fill tag recovery forms!				
						VES (mT)				

FATE CODES			
RWW	Retained - whole weight	DFR	Discarded trunk - fins retained (shark only)
RHG	Retained - headed and gutted (billfish only)	DTS	Discarded - too small (tuna only)
RGG	Retained - gilled and gutted (kept for sale)	DGD	Discarded - gear damage (tuna only)
RPT	Retained - partial (e.g. fillet, loin)	DVF	Discarded - vessel fully loaded
RCC	Retained - crew consumption (onboard)	DUS	Discarded - unwanted species
ROR	Retained - other reason (specify)	DSD	Discarded - shark damage
RFR	Retained trunk - fins retained (shark only)	DWD	Discarded - whale damage
DPA	Discarded SSI - alive	DPA	
DPD	(species of special interest) - dead	DPD	
DPU	- unknown condition	DPU	
DPQ	Discarded - poor quality		
DOR	Discarded - other reasons (specify)		
ESC	= Escaped		

(A PS-3 form **must** be filled out for the first and every set (recorded as *activity code 1* on PS-2) - whether monitored or not, even if a skunk set.) (For the very rare occasion that a set is not monitored the column for the vessel's estimate of catch must still be completed.) (N.B.: A PS-4 form is not required for skunk set.)

<b>OBSERVER NAME</b>	Print first name first and last name last. Eg.: "John Smith" not "Smith John". Print clearly !
<b>VESSEL NAME</b>	Full unabbreviated name. Eg.: a boat with name "Captain Paul Catchit" should not be abbreviated to Capt. P.Catchit.
<b>PAGE OF</b>	Number each PS-3 form from start until end of trip. Because one PS-3 is used for every set this is also the set No.
<b>OBSERVER TRIP ID No.</b>	This number is the same on all forms for a single observer trip.
<b>START of SET</b> Observer (PS-2)	The exact date and time that the observer recorded for this set on the PS-2. Record as year/month/day.
<b>DATE and TIME</b> Vessel (logsheet)	The exact date and time that the vessel has recorded for this set on their PS Log Sheet. Record as year/month/date.

<b>SET SEQUENCE</b>	<b>BEGIN SET (S KIFF OFF)</b>	Exact same time as recorded on the daily log (PS-2) and in the "Observer Start of Set Date and Time" section, above.
	<b>BEGIN PURSING (WINCH ON)</b>	The purse wire will be thrown to the vessel from the skiff, and it will then be attached to the winch. Record the time the winch is switched on.
	<b>END PURSING (RINGS UP)</b>	During the winching, a bunch of rings will come on board. Record the time when the last of the rings appears. This indicates the net has totally enclosed (pursed) the fish and they cannot escape.
	<b>BEGIN BRAILING</b>	Record the time the vessel starts the brailing process. This will have been recorded on the PS-4 form. If there was no brailing just record a dash
	<b>END BRAILING / SACK ONBOARD</b>	Record the time when the vessel finishes brailing. If there was no brailing record the time that the sack was lifted up on to the deck.
	<b>END SET (NEXT ACTIVITY START)</b>	Next activity START marks end of set (no later than 'skiff comes on board'). Record the activity change on PS-2.

<b>TOTAL CATCH and TOTAL TUNA CATCH</b>	
<b>Brail Capacity</b>	Find on the PS-1. Use to calculate total catch. <b>'Brail capacity' x 'Sum of all brails' = 'TOTAL CATCH'</b>
<b>Sum of all brails</b>	After calculating the total number of brails on the PS-4 form (for the same set) transfer your answer here.
Type 1 and Type 2 brails	... if a 2nd brail type is also used for this set samples, estimates of the brail capacity for both brail types must be made. Fill the 'brail capacity' and the 'sum of all brail' fields for both the 'type 1' and the 'type 2' brails. Add calculations of total catch from each brail type together to get a single "TOTAL CATCH" figure. (If there is no 'type 2' brail (which is normal) then simply record a dash in each of the 'type 2' fields and all other calculations will be based only on the 'type 1' brail information that is provided.)
<b>TOTAL CATCH less bycatch</b>	This is the combined weight of all the (target and bycatch species) fish brought onboard. Calculate the amount of bycatch (in mT) that is in the catch in the bycatch area below and transfer to this field
<b>TOTAL TUNA CATCH</b>	Subtract the total amount of bycatch from the TOTAL CATCH to get TOTAL TUNA CATCH. This includes all tuna caught whether or not it is later discarded. It does not include tuna that escaped <b>alive</b> from net.

<b>OBSERVER'S BREAKDOWN of TOTAL TUNA CAUGHT</b>	<b>YES or NO</b>	YES' or NO' <b>must</b> be circled to show if SKJ, small YFT, large YFT, small BET, large BET were even seen in the catch
<b>%</b>		Carefully eye-estimate the <b>percentage of the TOTAL TUNA</b> for each species (+ each size category for YFT and BET) N.B.: % of small (or large) YFT (or BET) is the % of <b>TOTAL TUNA</b> ! NOT % of that species of tuna.
<b>Number</b>		If there are not many large YFT or BET and good estimate of number can be made record number of large YFT (or BET) If a <b>good</b> estimate (counts) is not easy, dash the 'number' field. <b>Do not</b> make a rough estimate !

<b>SET CATCH DETAILS</b>	<b>BY-CATCH SPECIES CODE</b>	Record every species that lands on deck with the three letter FAO species code.
	<b>FATE CODE</b>	Use fate codes provided to say what happened to each species landed Use 1 line per species/fate group. Remember that a species may be split into groups each with a different fate code. Eg: RRU RWW 2 mT <b>REMEMBER</b> - use only one (the best and most informative) code for each line. RRU DTS 0.5 mT <b>NEW 2014:</b> Use the SSI FATE CODES FOR ALL SHARKS to indicate 'live' status. Use 'RFR' / 'DFR' in comments if finning observed).
	<b>OBSERVER (mT)</b>	Calculate the amount of each species caught, in each fate code category, using an appropriate assessment technique. Use mT. For instance if 300 kg of Mahi mahi and 40 kg of wahoo were caught - record 0.3 mt DOL /0.04 mt WAH
	<b>Number</b>	Only record a number if an accurate count is possible. Large amounts are recorded in "mT". If possible record both.
	<b>VESSEL LOG (mT)</b>	Copy the figures recorded by the ship's officers on the Vessel Logsheet, for this set.
	<b>Number</b>	Place a dash in the column if they have not recorded the species.
<b>Total weight of bycatch</b>	Calculate from the fields above for observer (important for use in 'Total Tuna' calculation) and vessel bycatch estimates	

<b>TAGS</b>	<b>TARGET TUNA</b>	
	<b>A. OBSERVER estimates of total caught</b>	Calculate the combined large and small <b>% x Total tuna catch</b> for each species (SKJ, YFT and BET)
	<b>FATE</b>	Record fate of discarded tuna or tuna retained for crew consumption (RCC), using fate codes listed at bottom of form
	<b>OBS (mT)</b>	Give a careful approximation (eye-estimate) of the total amount of catch for the relevant fate /species code combination. Record the amounts in metric tonnes.
	<b>VES (mT)</b>	Copy the weight, as recorded for each species in the vessel's logsheet. If nothing is recorded in the logsheet place a dash in the data field. If "0" is recorded on the logsheet record "0" here. <b>Record in metric tonnes.</b> Eg.: If amount on logsheet is in short tons this <b>MUST</b> be converted to metric tonnes.
	<b>B. OBSERVER totals (mT) discards + RCC</b>	For each species add together the mT amounts that are recorded in the rows 'a.', 'b.' and 'c' to get the total of all the discarded and the retained for crew consumption (RCC) combined for that species.
	<b>Tuna kept onboard for later unload</b>	Usually tuna are retained whole weight (RWW). If so then RWW can be calculated as (A. - B.) for each species. If tuna is otherwise retained onboard for later unload (fate = R??) then A. - B. = the combined total of RWW + R??
	<b>Due to gear break / bycatch mitigation</b>	ESC Best observer estimate of mT of any live tuna that escaped during set. Refer to Captain for any tuna seen escaping via sonar. Include any live tuna escaped from gear breakage or because vessel tries to release important bycatch. N.B. This does not include dead tuna that are released from the net after a breakdown during or after net sac-up = discards.
	<b>How many tags were recovered? species and tag numbers</b>	Note the number of tags found from in this set. Look out for tags on tuna, billfish, sharks, turtles, birds, etc. Record <b>tag number</b> and <b>species</b> . Note tag colour, tagging organisation and any unusual features about condition. Fill these and other tag details into the tag recovery form (and GEN-2 form if necessary).



**SPC/FFA REGIONAL PURSE SEINE OBSERVER  
SET DETAILS**

**FORM PS - 3**

REV. MAR. 2014

OBSERVER NAME				VESSEL NAME				PAGE		OF			
										(SET No.)			
OBSERVER TRIP I.D. NUMBER		START OF SET DATE AND TIME				START OF SET DATE AND TIME							
		OBSERVER: (see PS-2)		YY	MM	DD	hh	mm	YY	MM	DD	hh	mm
									VESSEL LOG:				

SET SEQUENCE TIMES						
EVENT:	START OF SET (SKIFF OFF)	BEGIN PURSING (WINCH ON)	END PURSING (RINGS UP)	BEGIN BRAILING	END OF BRAILING / SACK ONBOARD	END OF SET (NEXT ACTIVITY START)
TIME:						

SET CATCH DETAILS																	
OBSERVER'S BREAKDOWN OF TOTAL TUNA CAUGHT											N.B.: these calculations include all the tuna in this catch, whether retained or discarded						
brail capacity		sum of all brails		Total catch													
( ) mT	x	( )	=	( ) mT										less bycatch (see below)		=	( ) mT
Type 1 brail (see PS-1 form)		(see PS-4 form)															
( ) mT	+	( )	=	( ) mT										= Total tuna catch		( ) mT	
Type 2 brail (see PS-4 form)		(see PS-4 form)															

SKIP-JACK		YELLOWFIN				BIGEYE					
		SMALL (< 75 cm)		LARGE (> 75 cm)		SMALL (< 75 cm)		LARGE (> 75 cm)			
YES	(%)	YES	(%)	YES	(%)	NUMBER	YES	(%)	YES	(%)	NUMBER
NO		NO		NO			NO		NO		

BY-CATCH (ALL NON-TARGET SPECIES)						TARGET TUNA				
SPECIES CODE	FATE CODE	OBSERVER (mT)	No.	VESSEL LOG (mT)	No.	COMMENTS	A. OBSERVER estimates of total of each species caught (mT)	SKJ	YFT	BET
							Observer	FATE		
							Observer	a. (mT)		
							Vessel	FATE		
							Vessel	(mT)		
							Observer	FATE		
							Observer	b. (mT)		
							Vessel	FATE		
							Vessel	(mT)		
							Observer	FATE		
							Observer	c. (mT)		
							Vessel	FATE		
							Vessel	(mT)		
Total weight of bycatch: _____ mT						B. OBSERVER totals (mT) discards + RCC (a+b+c):				
Comments						Tuna kept onboard for later unload if not RWW				
						Observer				
						FATE				
						OBS (mT)				
						VES (mT)				
						FATE				
						RWW				
						OBS (mT)				
						VES (mT)				
						Due to gear break / bycatch mitigation				
						ESC				
						ESC				
						ESC				
						estimates				
						OBS (mT)				
						VES (mT)				
<b>TAGS - How many Tags were recovered?</b>						Record species and tag numbers. Fill tag recovery forms!				

FATE CODES			
RWW	Retained - whole weight	DFR	Discarded trunk - fins retained (shark only)
RHG	Retained - headed and gutted (billfish only)	DTS	Discarded - too small (tuna only)
RGG	Retained - gilled and gutted (kept for sale)	DGD	Discarded - gear damage (tuna only)
RPT	Retained - partial (e.g. fillet, loin)	DVF	Discarded - vessel fully loaded
RCC	Retained - crew consumption (onboard)	DUS	Discarded - unwanted species
ROR	Retained - other reason (specify)	DSD	Discarded - shark damage
RFR	Retained trunk - fins retained (shark only)	DWD	Discarded - whale damage
DPA	Discarded SSI - alive	DPA	
DPD	(species of special interest) - dead	DPD	
DPU	- unknown condition	DPU	
DPQ	Discarded - poor quality		
DOR	Discarded - other reasons (specify)		
ESC	= Escaped		

(A PS-3 form **must** be filled out for the first and every set (recorded as *activity code 1* on PS-2) - whether monitored or not, even if a skunk set.) (For the very rare occasion that a set is not monitored the column for the vessel's estimate of catch must still be completed.) (N.B.: A PS-4 form is not required for skunk set.)

<b>OBSERVER NAME</b>	Print first name first and last name last. Eg.: "John Smith" not "Smith John". Print clearly !
<b>VESSEL NAME</b>	Full unabbreviated name. Eg.: a boat with name "Captain Paul Catchit" should not be abbreviated to Capt. P.Catchit.
<b>PAGE OF</b>	Number each PS-3 form from start until end of trip. Because one PS-3 is used for every set this is also the set No.
<b>OBSERVER TRIP ID No.</b>	This number is the same on all forms for a single observer trip.
<b>START of SET</b> Observer (PS-2)	The exact date and time that the observer recorded for this set on the PS-2. Record as year/month/day.
<b>DATE and TIME</b> Vessel (logsheet)	The exact date and time that the vessel has recorded for this set on their PS Log Sheet. Record as year/month/date.

<b>SET SEQUENCE</b>	<b>BEGIN SET (S KIFF OFF)</b>	Exact same time as recorded on the daily log (PS-2) and in the "Observer Start of Set Date and Time" section, above.
	<b>BEGIN PURSING (WINCH ON)</b>	The purse wire will be thrown to the vessel from the skiff, and it will then be attached to the winch. Record the time the winch is switched on.
	<b>END PURSING (RINGS UP)</b>	During the winching, a bunch of rings will come on board. Record the time when the last of the rings appears. This indicates the net has totally enclosed (pursed) the fish and they cannot escape.
	<b>BEGIN BRAILING</b>	Record the time the vessel starts the brailing process. This will have been recorded on the PS-4 form. If there was no brailing just record a dash
	<b>END BRAILING / SACK ONBOARD</b>	Record the time when the vessel finishes brailing. If there was no brailing record the time that the sack was lifted up on to the deck.
	<b>END SET (NEXT ACTIVITY START)</b>	Next activity START marks end of set (no later than 'skiff comes on board'). Record the activity change on PS-2.

<b>TOTAL CATCH and TOTAL TUNA CATCH</b>	
<b>Brail Capacity</b>	Find on the PS-1. Use to calculate total catch. <b>'Brail capacity' x 'Sum of all brails' = 'TOTAL CATCH'</b>
<b>Sum of all brails</b>	After calculating the total number of brails on the PS-4 form (for the same set) transfer your answer here.
Type 1 and Type 2 brails	... if a 2nd brail type is also used for this set samples, estimates of the brail capacity for both brail types must be made. Fill the 'brail capacity' and the 'sum of all brail' fields for both the 'type 1' and the 'type 2' brails. Add calculations of total catch from each brail type together to get a single "TOTAL CATCH" figure. (If there is no 'type 2' brail (which is normal) then simply record a dash in each of the 'type 2' fields and all other calculations will be based only on the 'type 1' brail information that is provided.)
<b>TOTAL CATCH less bycatch</b>	This is the combined weight of all the (target and bycatch species) fish brought onboard. Calculate the amount of bycatch (in mT) that is in the catch in the bycatch area below and transfer to this field
<b>TOTAL TUNA CATCH</b>	Subtract the total amount of bycatch from the TOTAL CATCH to get TOTAL TUNA CATCH. This includes all tuna caught whether or not it is later discarded. It does not include tuna that escaped <b>alive</b> from net.

<b>OBSERVER'S BREAKDOWN of TOTAL TUNA CAUGHT</b>	<b>YES or NO</b>	YES' or NO' <b>must</b> be circled to show if SKJ, small YFT, large YFT, small BET, large BET were even seen in the catch
<b>%</b>		Carefully eye-estimate the <b>percentage of the TOTAL TUNA</b> for each species (+ each size category for YFT and BET) N.B.: % of small (or large) YFT (or BET) is the % of <b>TOTAL TUNA</b> ! NOT % of that species of tuna.
<b>Number</b>		If there are not many large YFT or BET and good estimate of number can be made record number of large YFT (or BET) If a <b>good</b> estimate (counts) is not easy, dash the 'number' field. <b>Do not</b> make a rough estimate !

<b>SET CATCH DETAILS</b>	<b>BY-CATCH SPECIES CODE</b>	Record every species that lands on deck with the three letter FAO species code.
	<b>FATE CODE</b>	Use fate codes provided to say what happened to each species landed Use 1 line per species/fate group. Remember that a species may be split into groups each with a different fate code. Eg: RRU RWW 2 mT <b>REMEMBER</b> - use only one (the best and most informative) code for each line. RRU DTS 0.5 mT <b>NEW 2014:</b> Use the SSI FATE CODES FOR ALL SHARKS to indicate 'live' status. Use 'RFR' / 'DFR' in comments if finning observed).
	<b>OBSERVER (mT)</b>	Calculate the amount of each species caught, in each fate code category, using an appropriate assessment technique. Use mT. For instance if 300 kg of Mahi mahi and 40 kg of wahoo were caught - record 0.3 mt DOL /0.04 mt WAH
	<b>Number</b>	Only record a number if an accurate count is possible. Large amounts are recorded in "mT". If possible record both.
	<b>VESSEL LOG (mT)</b>	Copy the figures recorded by the ship's officers on the Vessel Logsheet, for this set.
	<b>Number</b>	Place a dash in the column if they have not recorded the species.
<b>Total weight of bycatch</b>	Calculate from the fields above for observer (important for use in 'Total Tuna' calculation) and vessel bycatch estimates	

<b>TAGS</b>	<b>TARGET TUNA</b>	
	<b>A. OBSERVER estimates of total caught</b>	Calculate the combined large and small <b>% x Total tuna catch</b> for each species (SKJ, YFT and BET)
	<b>FATE</b>	Record fate of discarded tuna or tuna retained for crew consumption (RCC), using fate codes listed at bottom of form
	<b>OBS (mT)</b>	Give a careful approximation (eye-estimate) of the total amount of catch for the relevant fate /species code combination. Record the amounts in metric tonnes.
	<b>VES (mT)</b>	Copy the weight, as recorded for each species in the vessel's logsheet. If nothing is recorded in the logsheet place a dash in the data field. If "0" is recorded on the logsheet record "0" here. <b>Record in metric tonnes.</b> Eg.: If amount on logsheet is in short tons this <b>MUST</b> be converted to metric tonnes.
	<b>B. OBSERVER totals (mT) discards + RCC</b>	For each species add together the mT amounts that are recorded in the rows 'a.', 'b.' and 'c' to get the total of all the discarded and the retained for crew consumption (RCC) combined for that species.
	<b>Tuna kept onboard for later unload</b>	Usually tuna are retained whole weight (RWW). If so then RWW can be calculated as (A. - B.) for each species. If tuna is otherwise retained onboard for later unload (fate = R??) then A. - B. = the combined total of RWW + R??
	<b>Due to gear break / bycatch mitigation</b>	ESC Best observer estimate of mT of any live tuna that escaped during set. Refer to Captain for any tuna seen escaping via sonar. Include any live tuna escaped from gear breakage or because vessel tries to release important bycatch. N.B. This does not include dead tuna that are released from the net after a breakdown during or after net sac-up = discards.
	<b>How many tags were recovered? species and tag numbers</b>	Note the number of tags found from in this set. Look out for tags on tuna, billfish, sharks, turtles, birds, etc. Record <b>tag number</b> and <b>species</b> . Note tag colour, tagging organisation and any unusual features about condition. Fill these and other tag details into the tag recovery form (and GEN-2 form if necessary).

**SPC/FFA REGIONAL PURSE SEINE OBSERVER  
SET DETAILS**

**FORM PS - 3**

REV. MAR. 2014

OBSERVER NAME	VESSEL NAME	PAGE	OF
		(SET No.)	
OBSERVER TRIP I.D. NUMBER	START OF SET DATE AND TIME OBSERVER: (see PS-2)	START OF SET DATE AND TIME VESSEL LOG:	
	YY MM DD hh mm	YY MM DD hh mm	

SET SEQUENCE TIMES						
EVENT:	START OF SET (SKIFF OFF)	BEGIN PURSING (WINCH ON)	END PURSING (RINGS UP)	BEGIN BRAILING	END OF BRAILING / SACK ONBOARD	END OF SET (NEXT ACTIVITY START)
TIME:						

SET CATCH DETAILS														
OBSERVER'S BREAKDOWN OF TOTAL TUNA CAUGHT										N.B.: these calculations include all the tuna in this catch, whether retained or discarded				
brail capacity		sum of all brails		Total catch		- circle YES or NO for each species								
$( \text{mT} \times \text{mT} ) = \text{mT}$ <small>Type 1 brail (see PS-1 form)</small>		$( \text{mT} \times \text{mT} ) = \text{mT}$ <small>(see PS-4 form)</small>		$= \text{mT}$ <small>less bycatch (see below)</small>		=>								
$( \text{mT} \times \text{mT} ) = \text{mT}$ <small>type 2 brail</small>				$= \text{Total tuna catch}$ $\text{mT}$		<b>SKIP-JACK</b>		<b>YELLOWFIN</b>			<b>BIGEYE</b>			
						<b>SMALL (&lt; 75 cm)</b>		<b>LARGE (&gt; 75 cm)</b>			<b>SMALL (&lt; 75 cm)</b>		<b>LARGE (&gt; 75 cm)</b>	
						YES (%)	NO (%)	YES (%)	NUMBER	YES (%)	NO (%)	YES (%)	NUMBER	
						NO		NO		NO		NO		

BY-CATCH (ALL NON-TARGET SPECIES)						TARGET TUNA				
SPECIES CODE	FATE CODE	OBSERVER No. (mT)	VESSEL LOG No. (mT)	COMMENTS	A. OBSERVER estimates of total of each species caught (mT)	SKJ	YFT	BET		
					Observer	FATE				
					Observer	a. (mT)				
					Vessel	FATE				
					Vessel	(mT)				
					Observer	FATE				
					Observer	b. (mT)				
					Vessel	FATE				
					Vessel	(mT)				
					Observer	FATE				
					Observer	c. (mT)				
					Vessel	FATE				
					Vessel	(mT)				
Total weight of bycatch: _____ mT					B. OBSERVER totals (mT) discards + RCC (a+b+c):					
Comments					Tuna kept onboard for later unload if not RWW	FATE				
						OBS (mT)				
						VES (mT)				
					estimates	FATE	RWW	RWW		
						OBS (mT)				
						VES (mT)				
					Due to gear break / bycatch mitigation			ESC	ESC	ESC
					OBS (mT)					
					VES (mT)					
<b>TAGS - How many Tags were recovered?</b>			Record species and tag numbers. Fill tag recovery forms!							

FATE CODES			
RWW	Retained - whole weight	DFR	Discarded trunk - fins retained (shark only)
RHG	Retained - headed and gutted (billfish only)	DTS	Discarded - too small (tuna only)
RGG	Retained - gilled and gutted (kept for sale)	DGD	Discarded - gear damage (tuna only)
RPT	Retained - partial (e.g. fillet, loin)	DVF	Discarded - vessel fully loaded
RCC	Retained - crew consumption (onboard)	DUS	Discarded - unwanted species
ROR	Retained - other reason (specify)	DSD	Discarded - shark damage
RFR	Retained trunk - fins retained (shark only)	DWD	Discarded - whale damage
DPA	Discarded SSI - alive	DPA	
DPD	(species of special interest) - dead	DPD	
DPU	- unknown condition	DPU	
DPQ	Discarded - poor quality		
DOR	Discarded - other reasons (specify)		
ESC	= Escaped		

(A PS-3 form **must** be filled out for the first and every set (recorded as *activity code 1* on PS-2) - whether monitored or not, even if a skunk set.) (For the very rare occasion that a set is not monitored the column for the vessel's estimate of catch must still be completed.) (N.B.: A PS-4 form is not required for skunk set.)

<b>OBSERVER NAME</b>	Print first name first and last name last. Eg.: "John Smith" not "Smith John". Print clearly !
<b>VESSEL NAME</b>	Full unabbreviated name. Eg.: a boat with name "Captain Paul Catchit" should not be abbreviated to Capt. P.Catchit.
<b>PAGE OF</b>	Number each PS-3 form from start until end of trip. Because one PS-3 is used for every set this is also the set No.
<b>OBSERVER TRIP ID No.</b>	This number is the same on all forms for a single observer trip.
<b>START of SET</b> Observer (PS-2)	The exact date and time that the observer recorded for this set on the PS-2. Record as year/month/day.
<b>DATE and TIME</b> Vessel (logsheet)	The exact date and time that the vessel has recorded for this set on their PS Log Sheet. Record as year/month/date.

<b>SET SEQUENCE</b>	<b>BEGIN SET (S KIFF OFF)</b>	Exact same time as recorded on the daily log (PS-2) and in the "Observer Start of Set Date and Time" section, above.
	<b>BEGIN PURSING (WINCH ON)</b>	The purse wire will be thrown to the vessel from the skiff, and it will then be attached to the winch. Record the time the winch is switched on.
	<b>END PURSING (RINGS UP)</b>	During the winching, a bunch of rings will come on board. Record the time when the last of the rings appears. This indicates the net has totally enclosed (pursed) the fish and they cannot escape.
	<b>BEGIN BRAILING</b>	Record the time the vessel starts the brailing process. This will have been recorded on the PS-4 form. If there was no brailing just record a dash
	<b>END BRAILING / SACK ONBOARD</b>	Record the time when the vessel finishes brailing. If there was no brailing record the time that the sack was lifted up on to the deck.
	<b>END SET (NEXT ACTIVITY START)</b>	Next activity START marks end of set (no later than 'skiff comes on board'). Record the activity change on PS-2.

<b>TOTAL CATCH and TOTAL TUNA CATCH</b>	
<b>Brail Capacity</b>	Find on the PS-1. Use to calculate total catch. <b>'Brail capacity' x 'Sum of all brails' = 'TOTAL CATCH'</b>
<b>Sum of all brails</b>	After calculating the total number of brails on the PS-4 form (for the same set) transfer your answer here.
Type 1 and	... if a 2nd brail type is also used for this set samples, estimates of the brail capacity for both brail types must be made. Fill the 'brail capacity' and the 'sum of all brail' fields for both the 'type 1' and the 'type 2' brails.
Type 2 brails	Add calculations of total catch from each brail type together to get a single "TOTAL CATCH" figure. (If there is no 'type 2' brail (which is normal) then simply record a dash in each of the 'type 2' fields and all other calculations will be based only on the 'type 1' brail information that is provided.)
<b>TOTAL CATCH</b>	This is the combined weight of all the (target and bycatch species) fish brought onboard.
<b>less bycatch</b>	Calculate the amount of bycatch (in mT) that is in the catch in the bycatch area below and transfer to this field
<b>TOTAL TUNA CATCH</b>	Subtract the total amount of bycatch from the TOTAL CATCH to get TOTAL TUNA CATCH. This includes all tuna caught whether or not it is later discarded. It does not include tuna that escaped <b>alive</b> from net.

<b>OBSERVER'S BREAKDOWN of TOTAL TUNA CAUGHT</b>	<b>YES or NO</b>	YES' or NO' <b>must</b> be circled to show if SKJ, small YFT, large YFT, small BET, large BET were even seen in the catch
<b>%</b>		Carefully eye-estimate the <b>percentage of the TOTAL TUNA</b> for each species (+ each size category for YFT and BET) N.B.: % of small (or large) YFT (or BET) is the % of <b>TOTAL TUNA</b> ! NOT % of that species of tuna.
<b>Number</b>		If there are not many large YFT or BET and good estimate of number can be made record number of large YFT (or BET) If a <b>good</b> estimate (counts) is not easy, dash the 'number' field. <b>Do not</b> make a rough estimate !

<b>SET CATCH DETAILS</b>	<b>BY-CATCH SPECIES CODE</b>	Record every species that lands on deck with the three letter FAO species code.
	<b>FATE CODE</b>	Use fate codes provided to say what happened to each species landed Use 1 line per species/fate group. Remember that a species may be split into groups each with a different fate code. Eg: RRU RWW 2 mT <b>REMEMBER</b> - use only one (the best and most informative) code for each line. RRU DTS 0.5 mT <b>NEW 2014:</b> Use the SSI FATE CODES FOR ALL SHARKS to indicate 'live' status. Use 'RFR' / 'DFR' in comments if finning observed).
	<b>OBSERVER</b>	
	<b>(mT)</b>	Calculate the amount of each species caught, in each fate code category, using an appropriate assessment technique. Use mT. For instance if 300 kg of Mahi mahi and 40 kg of wahoo were caught - record 0.3 mt DOL /0.04 mt WAH
	<b>Number</b>	Only record a number if an accurate count is possible. Large amounts are recorded in "mT". If possible record both.
	<b>VESSEL LOG</b>	
<b>(mT)</b>	Copy the figures recorded by the ship's officers on the Vessel Logsheet, for this set.	
<b>Number</b>	Place a dash in the column if they have not recorded the species.	
<b>Total weight of bycatch</b>	Calculate from the fields above for observer (important for use in 'Total Tuna' calculation) and vessel bycatch estimates	

<b>TAGS</b>	<b>TARGET TUNA</b>	
	<b>A. OBSERVER estimates of total caught</b>	Calculate the combined large and small <b>% x Total tuna catch</b> for each species (SKJ, YFT and BET)
	<b>FATE</b>	Record fate of discarded tuna or tuna retained for crew consumption (RCC), using fate codes listed at bottom of form
	<b>OBS (mT)</b>	Give a careful approximation (eye-estimate) of the total amount of catch for the relevant fate /species code combination. Record the amounts in metric tonnes.
	<b>VES (mT)</b>	Copy the weight, as recorded for each species in the vessel's logsheet. If nothing is recorded in the logsheet place a dash in the data field. If "0" is recorded on the logsheet record "0" here. <b>Record in metric tonnes.</b> Eg.: If amount on logsheet is in short tons this <b>MUST</b> be converted to metric tonnes.
	<b>B. OBSERVER totals (mT) discards + RCC</b>	For each species add together the mT amounts that are recorded in the rows 'a.', 'b.' and 'c' to get the total of all the discarded and the retained for crew consumption (RCC) combined for that species.
	<b>Tuna kept onboard for later unload</b>	Usually tuna are retained whole weight (RWW). If so then RWW can be calculated as (A. - B.) for each species. If tuna is otherwise retained onboard for later unload (fate = R??) then A. - B. = the combined total of RWW + R??
	<b>Due to gear break / bycatch mitigation</b>	ESC Best observer estimate of mT of any live tuna that escaped during set. Refer to Captain for any tuna seen escaping via sonar. Include any live tuna escaped from gear breakage or because vessel tries to release important bycatch. N.B. This does not include dead tuna that are released from the net after a breakdown during or after net sac-up = discards.
	<b>How many tags were recovered? species and tag numbers</b>	Note the number of tags found from in this set. Look out for tags on tuna, billfish, sharks, turtles, birds, etc. Record <b>tag number</b> and <b>species</b> . Note tag colour, tagging organisation and any unusual features about condition. Fill these and other tag details into the tag recovery form (and GEN-2 form if necessary).

# SPC/FFA REGIONAL PURSE SEINE OBSERVER SET DETAILS

**FORM PS - 3**

REV. MAR. 2014

OBSERVER NAME	VESSEL NAME	PAGE _____ OF _____ (SET No.)
OBSERVER TRIP I.D. NUMBER	START OF SET DATE AND TIME OBSERVER: YY MM DD hh mm (see PS-2)	START OF SET DATE AND TIME VESSEL LOG: YY MM DD hh mm

SET SEQUENCE TIMES						
EVENT:	START OF SET (SKIFF OFF)	BEGIN PURSING (WINCH ON)	END PURSING (RINGS UP)	BEGIN BRAILING	END OF BRAILING / SACK ONBOARD	END OF SET (NEXT ACTIVITY START)
TIME:						

SET CATCH DETAILS											
OBSERVER'S BREAKDOWN OF TOTAL TUNA CAUGHT <small>- circle YES or NO for each species</small>										N.B.: these calculations include all the tuna in this catch, whether retained or discarded	
<b>brail capacity</b> ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT <small>Type 1 brail (see PS-1 form)</small>		<b>sum of all brails</b> ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT <small>(see PS-4 form)</small>		<b>Total catch</b> less bycatch (see below) = <input type="text"/> mT = <b>Total tuna catch</b> <input type="text"/> mT		<b>SKIP-JACK</b> YES (%) NO YES (%) NO		<b>YELLOWFIN</b> SMALL (< 75 cm) LARGE (> 75 cm) YES (%) NO YES (%) NO		<b>BIGEYE</b> SMALL (< 75 cm) LARGE (> 75 cm) YES (%) NO YES (%) NO	
<b>type 2 brail</b> ( <input type="text"/> mT x <input type="text"/> ) + <input type="text"/> = <input type="text"/> mT											

BY-CATCH (ALL NON-TARGET SPECIES)					TARGET TUNA					
SPECIES CODE	FATE CODE	OBSERVER No. (mT)	VESSEL LOG No. (mT)	COMMENTS	A. OBSERVER estimates of total of each species caught (mT)			SKJ	YFT	BET
						Observer	FATE			
						Observer	a. (mT)			
						Vessel	FATE			
						Vessel	(mT)			
						Observer	FATE			
						Observer	b. (mT)			
						Vessel	FATE			
						Vessel	(mT)			
						Observer	FATE			
						Observer	c. (mT)			
						Vessel	FATE			
						Vessel	(mT)			
Total weight of bycatch: _____ mT					B. OBSERVER totals (mT) discards + RCC (a+b+c): _____					
Comments					Tuna kept onboard for later unload if not RWW	Observer	FATE			
						Observer	OBS (mT)			
						Observer	VES (mT)			
					Vessel	FATE	RWW	RWW	RWW	
					Tuna kept onboard for later unload if not RWW	Vessel	OBS (mT)			
						Vessel	VES (mT)			
						Due to gear break / bycatch mitigation	ESC	ESC	ESC	
					estimates	Observer	OBS (mT)			
						Observer	VES (mT)			
<b>TAGS - How many Tags were recovered?</b>					<small>Record species and tag numbers. Fill tag recovery forms!</small>					

FATE CODES			
RWW	Retained - whole weight	DFR	Discarded trunk - fins retained (shark only)
RHG	Retained - headed and gutted (billfish only)	DTS	Discarded - too small (tuna only)
RGG	Retained - gilled and gutted (kept for sale)	DGD	Discarded - gear damage (tuna only)
RPT	Retained - partial (e.g. fillet, loin)	DVF	Discarded - vessel fully loaded
RCC	Retained - crew consumption (onboard)	DUS	Discarded - unwanted species
ROR	Retained - other reason (specify)	DSD	Discarded - shark damage
RFR	Retained trunk - fins retained (shark only)	DWD	Discarded - whale damage
DPA	Discarded SSI - alive	DPA	
DPD	(species of special interest) - dead	DPD	
DPU	- unknown condition	DPU	
DPQ	Discarded - poor quality		
DOR	Discarded - other reasons (specify)		
ESC	= Escaped		



(A PS-3 form **must** be filled out for the first and every set (recorded as *activity code 1* on PS-2) - whether monitored or not, even if a skunk set.) (For the very rare occasion that a set is not monitored the column for the vessel's estimate of catch must still be completed.) (N.B.: A PS-4 form is not required for skunk set.)

<b>OBSERVER NAME</b>	Print first name first and last name last. Eg.: "John Smith" not "Smith John". Print clearly !
<b>VESSEL NAME</b>	Full unabbreviated name. Eg.: a boat with name "Captain Paul Catchit" should not be abbreviated to Capt. P.Catchit.
<b>PAGE OF</b>	Number each PS-3 form from start until end of trip. Because one PS-3 is used for every set this is also the set No.
<b>OBSERVER TRIP ID No.</b>	This number is the same on all forms for a single observer trip.
<b>START of SET</b> Observer (PS-2)	The exact date and time that the observer recorded for this set on the PS-2. Record as year/month/day.
<b>DATE and TIME</b> Vessel (logsheet)	The exact date and time that the vessel has recorded for this set on their PS Log Sheet. Record as year/month/date.

<b>SET SEQUENCE</b>	<b>BEGIN SET (S KIFF OFF)</b>	Exact same time as recorded on the daily log (PS-2) and in the "Observer Start of Set Date and Time" section, above.
	<b>BEGIN PURSING (WINCH ON)</b>	The purse wire will be thrown to the vessel from the skiff, and it will then be attached to the winch. Record the time the winch is switched on.
	<b>END PURSING (RINGS UP)</b>	During the winching, a bunch of rings will come on board. Record the time when the last of the rings appears. This indicates the net has totally enclosed (pursed) the fish and they cannot escape.
	<b>BEGIN BRAILING</b>	Record the time the vessel starts the brailing process. This will have been recorded on the PS-4 form. If there was no brailing just record a dash
	<b>END BRAILING / SACK ONBOARD</b>	Record the time when the vessel finishes brailing. If there was no brailing record the time that the sack was lifted up on to the deck.
	<b>END SET (NEXT ACTIVITY START)</b>	Next activity START marks end of set (no later than 'skiff comes on board'). Record the activity change on PS-2.

<b>TOTAL CATCH and TOTAL TUNA CATCH</b>	
<b>Brail Capacity</b>	Find on the PS-1. Use to calculate total catch. <b>'Brail capacity' x 'Sum of all brails' = 'TOTAL CATCH'</b>
<b>Sum of all brails</b>	After calculating the total number of brails on the PS-4 form (for the same set) transfer your answer here.
Type 1 and Type 2 brails	... if a 2nd brail type is also used for this set samples, estimates of the brail capacity for both brail types must be made. Fill the 'brail capacity' and the 'sum of all brail' fields for both the 'type 1' and the 'type 2' brails. Add calculations of total catch from each brail type together to get a single "TOTAL CATCH" figure. (If there is no 'type 2' brail (which is normal) then simply record a dash in each of the 'type 2' fields and all other calculations will be based only on the 'type 1' brail information that is provided.)
<b>TOTAL CATCH less bycatch</b>	This is the combined weight of all the (target and bycatch species) fish brought onboard. Calculate the amount of bycatch (in mT) that is in the catch in the bycatch area below and transfer to this field
<b>TOTAL TUNA CATCH</b>	Subtract the total amount of bycatch from the TOTAL CATCH to get TOTAL TUNA CATCH. This includes all tuna caught whether or not it is later discarded. It does not include tuna that escaped <b>alive</b> from net.

<b>OBSERVER'S BREAKDOWN of TOTAL TUNA CAUGHT</b>	<b>YES or NO</b>	YES' or NO' <b>must</b> be circled to show if SKJ, small YFT, large YFT, small BET, large BET were even seen in the catch
<b>%</b>		Carefully eye-estimate the <b>percentage of the TOTAL TUNA</b> for each species (+ each size category for YFT and BET) N.B.: % of small (or large) YFT (or BET) is the % of <b>TOTAL TUNA</b> ! NOT % of that species of tuna.
<b>Number</b>		If there are not many large YFT or BET and good estimate of number can be made record number of large YFT (or BET) If a <b>good</b> estimate (counts) is not easy, dash the 'number' field. <b>Do not</b> make a rough estimate !

<b>SET CATCH DETAILS</b>	<b>BY-CATCH SPECIES CODE</b>	Record every species that lands on deck with the three letter FAO species code.
	<b>FATE CODE</b>	Use fate codes provided to say what happened to each species landed Use 1 line per species/fate group. Remember that a species may be split into groups each with a different fate code. Eg: RRU RWW 2 mT <b>REMEMBER</b> - use only one (the best and most informative) code for each line. RRU DTS 0.5 mT <b>NEW 2014:</b> Use the SSI FATE CODES FOR ALL SHARKS to indicate 'live' status. Use 'RFR' / 'DFR' in comments if finning observed).
	<b>OBSERVER (mT)</b>	Calculate the amount of each species caught, in each fate code category, using an appropriate assessment technique. Use mT. For instance if 300 kg of Mahi mahi and 40 kg of wahoo were caught - record 0.3 mt DOL /0.04 mt WAH
	<b>Number</b>	Only record a number if an accurate count is possible. Large amounts are recorded in "mT". If possible record both.
	<b>VESSEL LOG (mT)</b>	Copy the figures recorded by the ship's officers on the Vessel Logsheet, for this set.
	<b>Number</b>	Place a dash in the column if they have not recorded the species.
<b>Total weight of bycatch</b>	Calculate from the fields above for observer (important for use in 'Total Tuna' calculation) and vessel bycatch estimates	

<b>TAGS</b>	<b>TARGET TUNA</b>	
	<b>A. OBSERVER estimates of total caught</b>	Calculate the combined large and small <b>% x Total tuna catch</b> for each species (SKJ, YFT and BET)
	<b>FATE</b>	Record fate of discarded tuna or tuna retained for crew consumption (RCC), using fate codes listed at bottom of form
	<b>OBS (mT)</b>	Give a careful approximation (eye-estimate) of the total amount of catch for the relevant fate /species code combination. Record the amounts in metric tonnes.
	<b>VES (mT)</b>	Copy the weight, as recorded for each species in the vessel's logsheet. If nothing is recorded in the logsheet place a dash in the data field. If "0" is recorded on the logsheet record "0" here. <b>Record in metric tonnes.</b> Eg.: If amount on logsheet is in short tons this <b>MUST</b> be converted to metric tonnes.
	<b>B. OBSERVER totals (mT) discards + RCC</b>	For each species add together the mT amounts that are recorded in the rows 'a.', 'b.' and 'c' to get the total of all the discarded and the retained for crew consumption (RCC) combined for that species.
	<b>Tuna kept onboard for later unload</b>	Usually tuna are retained whole weight (RWW). If so then RWW can be calculated as (A. - B.) for each species. If tuna is otherwise retained onboard for later unload (fate = R??) then A. - B. = the combined total of RWW + R??
	<b>Due to gear break / bycatch mitigation</b>	ESC Best observer estimate of mT of any live tuna that escaped during set. Refer to Captain for any tuna seen escaping via sonar. Include any live tuna escaped from gear breakage or because vessel tries to release important bycatch. N.B. This does not include dead tuna that are released from the net after a breakdown during or after net sac-up = discards.
	<b>How many tags were recovered? species and tag numbers</b>	Note the number of tags found from in this set. Look out for tags on tuna, billfish, sharks, turtles, birds, etc. Record <b>tag number</b> and <b>species</b> . Note tag colour, tagging organisation and any unusual features about condition. Fill these and other tag details into the tag recovery form (and GEN-2 form if necessary).

# SPC/FFA REGIONAL PURSE SEINE OBSERVER SET DETAILS

**FORM PS - 3**

REV. MAR. 2014

OBSERVER NAME	VESSEL NAME	PAGE _____ OF _____ (SET No.)
OBSERVER TRIP I.D. NUMBER	START OF SET DATE AND TIME OBSERVER: YY MM DD hh mm (see PS-2)	START OF SET DATE AND TIME VESSEL LOG: YY MM DD hh mm

SET SEQUENCE TIMES						
EVENT:	START OF SET (SKIFF OFF)	BEGIN PURSING (WINCH ON)	END PURSING (RINGS UP)	BEGIN BRAILING	END OF BRAILING / SACK ONBOARD	END OF SET (NEXT ACTIVITY START)
TIME:						

SET CATCH DETAILS											
OBSERVER'S BREAKDOWN OF TOTAL TUNA CAUGHT <small>- circle YES or NO for each species</small>										N.B.: these calculations include all the tuna in this catch, whether retained or discarded	
brail capacity ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT <small>Type 1 brail (see PS-1 form)</small>		sum of all brails ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT <small>(see PS-4 form)</small>		Total catch less bycatch (see below) <input type="text"/> mT = Total tuna catch <input type="text"/> mT		<b>SKIP-JACK</b> YES (%) NO YES (%) NO		<b>YELLOWFIN</b> SMALL (< 75 cm) LARGE (> 75 cm) YES (%) NO YES (%) NO		<b>BIGEYE</b> SMALL (< 75 cm) LARGE (> 75 cm) YES (%) NO YES (%) NO	
type 2 brail ( <input type="text"/> mT x <input type="text"/> ) + <input type="text"/> mT											

BY-CATCH (ALL NON-TARGET SPECIES)					TARGET TUNA				
SPECIES CODE	FATE CODE	OBSERVER No. (mT)	VESSEL LOG No. (mT)	COMMENTS	A. OBSERVER estimates of total of each species caught (mT)		SKJ	YFT	BET
					Observer	FATE			
					Observer	a. (mT)			
					Vessel	FATE			
					Vessel	(mT)			
					Observer	FATE			
					Observer	b. (mT)			
					Vessel	FATE			
					Vessel	(mT)			
					Observer	FATE			
					Observer	c. (mT)			
					Vessel	FATE			
					Vessel	(mT)			
Total weight of bycatch: _____ mT					B. OBSERVER totals (mT) discards + RCC (a+b+c): _____				
Comments					Tuna kept onboard for later unload if not RWW	FATE			
						OBS (mT)			
					Tuna kept onboard for later unload if not RWW	VES (mT)			
						FATE	RWW	RWW	RWW
						OBS (mT)			
					Tuna kept onboard for later unload if not RWW	VES (mT)			
						Due to gear break / bycatch mitigation	ESC	ESC	ESC
					estimates	OBS (mT)			
						VES (mT)			
<b>TAGS - How many Tags were recovered?</b>					<small>Record species and tag numbers. Fill tag recovery forms!</small>				

FATE CODES			
RWW	Retained - whole weight	DFR	Discarded trunk - fins retained (shark only)
RHG	Retained - headed and gutted (billfish only)	DTS	Discarded - too small (tuna only)
RGG	Retained - gilled and gutted (kept for sale)	DGD	Discarded - gear damage (tuna only)
RPT	Retained - partial (e.g. fillet, loin)	DVF	Discarded - vessel fully loaded
RCC	Retained - crew consumption (onboard)	DUS	Discarded - unwanted species
ROR	Retained - other reason (specify)	DSD	Discarded - shark damage
RFR	Retained trunk - fins retained (shark only)	DWD	Discarded - whale damage
DPA	Discarded SSI - alive	DPA	
DPD	(species of special interest) - dead	DPD	
DPU	- unknown condition	DPU	
DPQ	Discarded - poor quality		
DOR	Discarded - other reasons (specify)		
ESC	= Escaped		

(A PS-3 form **must** be filled out for the first and every set (recorded as *activity code 1* on PS-2) - whether monitored or not, even if a skunk set.) (For the very rare occasion that a set is not monitored the column for the vessel's estimate of catch must still be completed.) (N.B.: A PS-4 form is not required for skunk set.)

<b>OBSERVER NAME</b>	Print first name first and last name last. Eg.: "John Smith" not "Smith John". Print clearly !
<b>VESSEL NAME</b>	Full unabbreviated name. Eg.: a boat with name "Captain Paul Catchit" should not be abbreviated to Capt. P.Catchit.
<b>PAGE OF</b>	Number each PS-3 form from start until end of trip. Because one PS-3 is used for every set this is also the set No.
<b>OBSERVER TRIP ID No.</b>	This number is the same on all forms for a single observer trip.
<b>START of SET</b> Observer (PS-2)	The exact date and time that the observer recorded for this set on the PS-2. Record as year/month/day.
<b>DATE and TIME</b> Vessel (logsheet)	The exact date and time that the vessel has recorded for this set on their PS Log Sheet. Record as year/month/date.

<b>SET SEQUENCE</b>	<b>BEGIN SET (S KIFF OFF)</b>	Exact same time as recorded on the daily log (PS-2) and in the "Observer Start of Set Date and Time" section, above.
	<b>BEGIN PURSING (WINCH ON)</b>	The purse wire will be thrown to the vessel from the skiff, and it will then be attached to the winch. Record the time the winch is switched on.
	<b>END PURSING (RINGS UP)</b>	During the winching, a bunch of rings will come on board. Record the time when the last of the rings appears. This indicates the net has totally enclosed (pursed) the fish and they cannot escape.
	<b>BEGIN BRAILING</b>	Record the time the vessel starts the brailing process. This will have been recorded on the PS-4 form. If there was no brailing just record a dash
	<b>END BRAILING / SACK ONBOARD</b>	Record the time when the vessel finishes brailing. If there was no brailing record the time that the sack was lifted up on to the deck.
	<b>END SET (NEXT ACTIVITY START)</b>	Next activity START marks end of set (no later than 'skiff comes on board'). Record the activity change on PS-2.

<b>TOTAL CATCH and TOTAL TUNA CATCH</b>	
<b>Brail Capacity</b>	Find on the PS-1. Use to calculate total catch. <b>'Brail capacity' x 'Sum of all brails' = 'TOTAL CATCH'</b>
<b>Sum of all brails</b>	After calculating the total number of brails on the PS-4 form (for the same set) transfer your answer here.
Type 1 and	... if a 2nd brail type is also used for this set samples, estimates of the brail capacity for both brail types must be made. Fill the 'brail capacity' and the 'sum of all brail' fields for both the 'type 1' and the 'type 2' brails.
Type 2 brails	Add calculations of total catch from each brail type together to get a single "TOTAL CATCH" figure. (If there is no 'type 2' brail (which is normal) then simply record a dash in each of the 'type 2' fields and all other calculations will be based only on the 'type 1' brail information that is provided.)
<b>TOTAL CATCH</b>	This is the combined weight of all the (target and bycatch species) fish brought onboard.
<b>less bycatch</b>	Calculate the amount of bycatch (in mT) that is in the catch in the bycatch area below and transfer to this field
<b>TOTAL TUNA CATCH</b>	Subtract the total amount of bycatch from the TOTAL CATCH to get TOTAL TUNA CATCH. This includes all tuna caught whether or not it is later discarded. It does not include tuna that escaped <b>alive</b> from net.

<b>OBSERVER'S BREAKDOWN of TOTAL TUNA CAUGHT</b>	<b>YES or NO</b>	YES' or NO' <b>must</b> be circled to show if SKJ, small YFT, large YFT, small BET, large BET were even seen in the catch
<b>%</b>		Carefully eye-estimate the <b>percentage of the TOTAL TUNA</b> for each species (+ each size category for YFT and BET) N.B.: % of small (or large) YFT (or BET) is the % of <b>TOTAL TUNA</b> ! NOT % of that species of tuna.
<b>Number</b>		If there are not many large YFT or BET and good estimate of number can be made record number of large YFT (or BET) If a <b>good</b> estimate (counts) is not easy, dash the 'number' field. <b>Do not</b> make a rough estimate !

<b>SET CATCH DETAILS</b>	<b>BY-CATCH SPECIES CODE</b>	Record every species that lands on deck with the three letter FAO species code.
	<b>FATE CODE</b>	Use fate codes provided to say what happened to each species landed Use 1 line per species/fate group. Remember that a species may be split into groups each with a different fate code. Eg: RRU RWW 2 mT <b>REMEMBER</b> - use only one (the best and most informative) code for each line. RRU DTS 0.5 mT <b>NEW 2014:</b> Use the SSI FATE CODES FOR ALL SHARKS to indicate 'live' status. Use 'RFR' / 'DFR' in comments if finning observed).
	<b>OBSERVER</b>	
	<b>(mT)</b>	Calculate the amount of each species caught, in each fate code category, using an appropriate assessment technique. Use mT. For instance if 300 kg of Mahi mahi and 40 kg of wahoo were caught - record 0.3 mt DOL /0.04 mt WAH
	<b>Number</b>	Only record a number if an accurate count is possible. Large amounts are recorded in "mT". If possible record both.
	<b>VESSEL LOG</b>	
<b>(mT)</b>	Copy the figures recorded by the ship's officers on the Vessel Logsheet, for this set.	
<b>Number</b>	Place a dash in the column if they have not recorded the species.	
<b>Total weight of bycatch</b>	Calculate from the fields above for observer (important for use in 'Total Tuna' calculation) and vessel bycatch estimates	

<b>TAGS</b>	<b>TARGET TUNA</b>	
	<b>A. OBSERVER estimates of total caught</b>	Calculate the combined large and small <b>% x Total tuna catch</b> for each species (SKJ, YFT and BET)
	<b>FATE</b>	Record fate of discarded tuna or tuna retained for crew consumption (RCC), using fate codes listed at bottom of form
	<b>OBS (mT)</b>	Give a careful approximation (eye-estimate) of the total amount of catch for the relevant fate /species code combination. Record the amounts in metric tonnes.
	<b>VES (mT)</b>	Copy the weight, as recorded for each species in the vessel's logsheet. If nothing is recorded in the logsheet place a dash in the data field. If "0" is recorded on the logsheet record "0" here. <b>Record in metric tonnes.</b> Eg.: If amount on logsheet is in short tons this <b>MUST</b> be converted to metric tonnes.
	<b>B. OBSERVER totals (mT) discards + RCC</b>	For each species add together the mT amounts that are recorded in the rows 'a.', 'b.' and 'c' to get the total of all the discarded and the retained for crew consumption (RCC) combined for that species.
	<b>Tuna kept onboard for later unload</b>	Usually tuna are retained whole weight (RWW). If so then RWW can be calculated as (A. - B.) for each species. If tuna is otherwise retained onboard for later unload (fate = R??) then A. - B. = the combined total of RWW + R??
	<b>Due to gear break / bycatch mitigation</b>	ESC Best observer estimate of mT of any live tuna that escaped during set. Refer to Captain for any tuna seen escaping via sonar. Include any live tuna escaped from gear breakage or because vessel tries to release important bycatch. N.B. This does not include dead tuna that are released from the net after a breakdown during or after net sac-up = discards.
	<b>How many tags were recovered? species and tag numbers</b>	Note the number of tags found from in this set. Look out for tags on tuna, billfish, sharks, turtles, birds, etc. Record <b>tag number</b> and <b>species</b> . Note tag colour, tagging organisation and any unusual features about condition. Fill these and other tag details into the tag recovery form (and GEN-2 form if necessary).

# SPC/FFA REGIONAL PURSE SEINE OBSERVER SET DETAILS

**FORM PS - 3**

REV. MAR. 2014

OBSERVER NAME	VESSEL NAME	PAGE _____ OF _____ (SET No.)
OBSERVER TRIP I.D. NUMBER	START OF SET DATE AND TIME OBSERVER: YY MM DD hh mm (see PS-2)	START OF SET DATE AND TIME VESSEL LOG: YY MM DD hh mm

SET SEQUENCE TIMES						
EVENT:	START OF SET (SKIFF OFF)	BEGIN PURSING (WINCH ON)	END PURSING (RINGS UP)	BEGIN BRAILING	END OF BRAILING / SACK ONBOARD	END OF SET (NEXT ACTIVITY START)
TIME:						

SET CATCH DETAILS											
OBSERVER'S BREAKDOWN OF TOTAL TUNA CAUGHT <small>- circle YES or NO for each species</small>										N.B.: these calculations include all the tuna in this catch, whether retained or discarded	
brail capacity ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT <small>Type 1 brail (see PS-1 form)</small>		sum of all brails ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT <small>(see PS-4 form)</small>		Total catch less bycatch (see below) = Total tuna catch <input type="text"/> mT		<b>SKIP-JACK</b> YES (%) NO		<b>YELLOWFIN</b> SMALL (< 75 cm) LARGE (> 75 cm) YES (%) NO		<b>BIGEYE</b> SMALL (< 75 cm) LARGE (> 75 cm) YES (%) NO	
type 2 brail ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT											

BY-CATCH (ALL NON-TARGET SPECIES)					TARGET TUNA					
SPECIES CODE	FATE CODE	OBSERVER No. (mT)	VESSEL LOG No. (mT)	COMMENTS	A. OBSERVER estimates of total of each species caught (mT)			SKJ	YFT	BET
						Observer	FATE			
						Observer	a. (mT)			
						Vessel	FATE			
						Vessel	(mT)			
						Observer	FATE			
						Observer	b. (mT)			
						Vessel	FATE			
						Vessel	(mT)			
						Observer	FATE			
						Observer	c. (mT)			
						Vessel	FATE			
						Vessel	(mT)			
Total weight of bycatch: _____ mT					B. OBSERVER totals (mT) discards + RCC (a+b+c): _____					
Comments						Tuna kept onboard for later unload if not RWW	FATE			
							OBS (mT)			
						Tuna kept onboard for later unload if not RWW	VES (mT)			
							FATE	RWW	RWW	RWW
						Tuna kept onboard for later unload if not RWW	OBS (mT)			
							VES (mT)			
						Due to gear break / bycatch mitigation	ESC	ESC	ESC	
							estimates	OBS (mT)		
TAGS - How many Tags were recovered?						estimates	VES (mT)			
							Record species and tag numbers. Fill tag recovery forms!			

FATE CODES			
RWW	Retained - whole weight	DFR	Discarded trunk - fins retained (shark only)
RHG	Retained - headed and gutted (billfish only)	DTS	Discarded - too small (tuna only)
RGG	Retained - gilled and gutted (kept for sale)	DGD	Discarded - gear damage (tuna only)
RPT	Retained - partial (e.g. fillet, loin)	DVF	Discarded - vessel fully loaded
RCC	Retained - crew consumption (onboard)	DUS	Discarded - unwanted species
ROR	Retained - other reason (specify)	DSD	Discarded - shark damage
RFR	Retained trunk - fins retained (shark only)	DWD	Discarded - whale damage
DPA	Discarded SSI - alive	DPA	
DPD	(species of special interest) - dead	DPD	
DPU	- unknown condition	DPU	
DPQ	Discarded - poor quality		
DOR	Discarded - other reasons (specify)		
ESC	= Escaped		

(A PS-3 form **must** be filled out for the first and every set (recorded as *activity code 1* on PS-2) - whether monitored or not, even if a skunk set.) (For the very rare occasion that a set is not monitored the column for the vessel's estimate of catch must still be completed.) (N.B.: A PS-4 form is not required for skunk set.)

<b>OBSERVER NAME</b>	Print first name first and last name last. Eg.: "John Smith" not "Smith John". Print clearly !
<b>VESSEL NAME</b>	Full unabbreviated name. Eg.: a boat with name "Captain Paul Catchit" should not be abbreviated to Capt. P.Catchit.
<b>PAGE OF</b>	Number each PS-3 form from start until end of trip. Because one PS-3 is used for every set this is also the set No.
<b>OBSERVER TRIP ID No.</b>	This number is the same on all forms for a single observer trip.
<b>START of SET</b> Observer (PS-2)	The exact date and time that the observer recorded for this set on the PS-2. Record as year/month/day.
<b>DATE and TIME</b> Vessel (logsheet)	The exact date and time that the vessel has recorded for this set on their PS Log Sheet. Record as year/month/date.

<b>SET SEQUENCE</b>	<b>BEGIN SET (S KIFF OFF)</b>	Exact same time as recorded on the daily log (PS-2) and in the "Observer Start of Set Date and Time" section, above.
	<b>BEGIN PURSING (WINCH ON)</b>	The purse wire will be thrown to the vessel from the skiff, and it will then be attached to the winch. Record the time the winch is switched on.
	<b>END PURSING (RINGS UP)</b>	During the winching, a bunch of rings will come on board. Record the time when the last of the rings appears. This indicates the net has totally enclosed (pursed) the fish and they cannot escape.
	<b>BEGIN BRAILING</b>	Record the time the vessel starts the brailing process. This will have been recorded on the PS-4 form. If there was no brailing just record a dash
	<b>END BRAILING / SACK ONBOARD</b>	Record the time when the vessel finishes brailing. If there was no brailing record the time that the sack was lifted up on to the deck.
	<b>END SET (NEXT ACTIVITY START)</b>	Next activity START marks end of set (no later than 'skiff comes on board'). Record the activity change on PS-2.

<b>TOTAL CATCH and TOTAL TUNA CATCH</b>	
<b>Brail Capacity</b>	Find on the PS-1. Use to calculate total catch. <b>'Brail capacity' x 'Sum of all brails' = 'TOTAL CATCH'</b>
<b>Sum of all brails</b>	After calculating the total number of brails on the PS-4 form (for the same set) transfer your answer here.
Type 1 and	... if a 2nd brail type is also used for this set samples, estimates of the brail capacity for both brail types must be made. Fill the 'brail capacity' and the 'sum of all brail' fields for both the 'type 1' and the 'type 2' brails.
Type 2 brails	Add calculations of total catch from each brail type together to get a single "TOTAL CATCH" figure. (If there is no 'type 2' brail (which is normal) then simply record a dash in each of the 'type 2' fields and all other calculations will be based only on the 'type 1' brail information that is provided.)
<b>TOTAL CATCH</b>	This is the combined weight of all the (target and bycatch species) fish brought onboard.
<b>less bycatch</b>	Calculate the amount of bycatch (in mT) that is in the catch in the bycatch area below and transfer to this field
<b>TOTAL TUNA CATCH</b>	Subtract the total amount of bycatch from the TOTAL CATCH to get TOTAL TUNA CATCH. This includes all tuna caught whether or not it is later discarded. It does not include tuna that escaped <b>alive</b> from net.

<b>OBSERVER'S BREAKDOWN of TOTAL TUNA CAUGHT</b>	<b>YES or NO</b>	YES' or NO' <b>must</b> be circled to show if SKJ, small YFT, large YFT, small BET, large BET were even seen in the catch
<b>%</b>		Carefully eye-estimate the <b>percentage of the TOTAL TUNA</b> for each species (+ each size category for YFT and BET) N.B.: % of small (or large) YFT (or BET) is the % of <b>TOTAL TUNA</b> ! NOT % of that species of tuna.
<b>Number</b>		If there are not many large YFT or BET and good estimate of number can be made record number of large YFT (or BET) If a <b>good</b> estimate (counts) is not easy, dash the 'number' field. <b>Do not</b> make a rough estimate !

<b>SET CATCH DETAILS</b>	<b>BY-CATCH SPECIES CODE</b>	Record every species that lands on deck with the three letter FAO species code.
	<b>FATE CODE</b>	Use fate codes provided to say what happened to each species landed Use 1 line per species/fate group. Remember that a species may be split into groups each with a different fate code. Eg: RRU RWW 2 mT <b>REMEMBER</b> - use only one (the best and most informative) code for each line. RRU DTS 0.5 mT <b>NEW 2014:</b> Use the SSI FATE CODES FOR ALL SHARKS to indicate 'live' status. Use 'RFR' / 'DFR' in comments if finning observed).
	<b>OBSERVER</b>	
	<b>(mT)</b>	Calculate the amount of each species caught, in each fate code category, using an appropriate assessment technique. Use mT. For instance if 300 kg of Mahi mahi and 40 kg of wahoo were caught - record 0.3 mt DOL /0.04 mt WAH
	<b>Number</b>	Only record a number if an accurate count is possible. Large amounts are recorded in "mT". If possible record both.
	<b>VESSEL LOG</b>	
<b>(mT)</b>	Copy the figures recorded by the ship's officers on the Vessel Logsheet, for this set.	
<b>Number</b>	Place a dash in the column if they have not recorded the species.	
<b>Total weight of bycatch</b>	Calculate from the fields above for observer (important for use in 'Total Tuna' calculation) and vessel bycatch estimates	

<b>TAGS</b>	<b>TARGET TUNA</b>	
	<b>A. OBSERVER estimates of total caught</b>	Calculate the combined large and small <b>% x Total tuna catch</b> for each species (SKJ, YFT and BET)
	<b>FATE</b>	Record fate of discarded tuna or tuna retained for crew consumption (RCC), using fate codes listed at bottom of form
	<b>OBS (mT)</b>	Give a careful approximation (eye-estimate) of the total amount of catch for the relevant fate /species code combination. Record the amounts in metric tonnes.
	<b>VES (mT)</b>	Copy the weight, as recorded for each species in the vessel's logsheet. If nothing is recorded in the logsheet place a dash in the data field. If "0" is recorded on the logsheet record "0" here. <b>Record in metric tonnes.</b> Eg.: If amount on logsheet is in short tons this <b>MUST</b> be converted to metric tonnes.
	<b>B. OBSERVER totals (mT) discards + RCC</b>	For each species add together the mT amounts that are recorded in the rows 'a.', 'b.' and 'c' to get the total of all the discarded and the retained for crew consumption (RCC) combined for that species.
	<b>Tuna kept onboard for later unload</b>	Usually tuna are retained whole weight (RWW). If so then RWW can be calculated as (A. - B.) for each species. If tuna is otherwise retained onboard for later unload (fate = R??) then A. - B. = the combined total of RWW + R??
	<b>Due to gear break / bycatch mitigation</b>	ESC Best observer estimate of mT of any live tuna that escaped during set. Refer to Captain for any tuna seen escaping via sonar. Include any live tuna escaped from gear breakage or because vessel tries to release important bycatch. N.B. This does not include dead tuna that are released from the net after a breakdown during or after net sac-up = discards.
	<b>How many tags were recovered? species and tag numbers</b>	Note the number of tags found from in this set. Look out for tags on tuna, billfish, sharks, turtles, birds, etc. Record <b>tag number</b> and <b>species</b> . Note tag colour, tagging organisation and any unusual features about condition. Fill these and other tag details into the tag recovery form (and GEN-2 form if necessary).



**SPC/FFA REGIONAL PURSE SEINE OBSERVER  
SET DETAILS**

**FORM PS - 3**

REV. MAR. 2014

OBSERVER NAME	VESSEL NAME	PAGE	OF
		(SET No.)	
OBSERVER TRIP I.D. NUMBER	START OF SET DATE AND TIME	START OF SET DATE AND TIME	
	OBSERVER: (see PS-2)	VESSEL LOG:	
	YY MM DD hh mm	YY MM DD hh mm	

SET SEQUENCE TIMES						
EVENT:	START OF SET (SKIFF OFF)	BEGIN PURSING (WINCH ON)	END PURSING (RINGS UP)	BEGIN BRAILING	END OF BRAILING / SACK ONBOARD	END OF SET (NEXT ACTIVITY START)
TIME:						

SET CATCH DETAILS																				
brail capacity ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT <small>Type 1 brail (see PS-1 form)</small>			sum of all brails ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT <small>(see PS-4 form)</small>			Total catch less bycatch (see below) = Total tuna catch <input type="text"/> mT			<b>OBSERVER'S BREAKDOWN OF TOTAL TUNA CAUGHT</b> - circle YES or NO for each species						<small>N.B.: these calculations include all the tuna in this catch, whether retained or discarded</small>					
						=>														
						SKIP-JACK		YELLOWFIN				BIGEYE								
								SMALL (< 75 cm)		LARGE (> 75 cm)		SMALL (< 75 cm)		LARGE (> 75 cm)						
						YES (%)	NO	YES (%)	NO	YES (%)	NUMBER	YES (%)	NO	YES (%)	NUMBER					
						NO		NO		NO		NO		NO						

BY-CATCH (ALL NON-TARGET SPECIES)						TARGET TUNA						
SPECIES CODE	FATE CODE	OBSERVER (mT) No.	VESSEL LOG (mT) No.	COMMENTS		SKJ	YFT	BET				
					A. OBSERVER estimates of total of each species caught (mT)							
						Observer	FATE					
						Vessel	(mT)					
						Observer	b. (mT)					
						Vessel	(mT)					
						Observer	c. (mT)					
						Vessel	(mT)					
						B. OBSERVER totals (mT) discards + RCC (a+b+c):						
						Tuna kept onboard for later unload if not RWW	FATE					
							OBS (mT)					
							VES (mT)					
							FATE	RWW	RWW	RWW		
							OBS (mT)					
							VES (mT)					
							Due to gear break / bycatch mitigation			ESC	ESC	ESC
						estimates	OBS (mT)					
							VES (mT)					
<b>TAGS - How many Tags were recovered?</b>					Record species and tag numbers. Fill tag recovery forms!							

FATE CODES			
RWW	Retained - whole weight	DFR	Discarded trunk - fins retained (shark only)
RHG	Retained - headed and gutted (billfish only)	DTS	Discarded - too small (tuna only)
RGG	Retained - gilled and gutted (kept for sale)	DGD	Discarded - gear damage (tuna only)
RPT	Retained - partial (e.g. fillet, loin)	DVF	Discarded - vessel fully loaded
RCC	Retained - crew consumption (onboard)	DUS	Discarded - unwanted species
ROR	Retained - other reason (specify)	DSD	Discarded - shark damage
RFR	Retained trunk - fins retained (shark only)	DWD	Discarded - whale damage
DPA	Discarded SSI - alive	DPA	
DPD	(species of special interest) - dead	DPD	
DPU	- unknown condition	DPU	
DPQ	Discarded - poor quality		
DOR	Discarded - other reasons (specify)		
ESC	= Escaped		

(A PS-3 form **must** be filled out for the first and every set (recorded as *activity code 1* on PS-2) - whether monitored or not, even if a skunk set.) (For the very rare occasion that a set is not monitored the column for the vessel's estimate of catch must still be completed.) (N.B.: A PS-4 form is not required for skunk set.)

<b>OBSERVER NAME</b>	Print first name first and last name last. Eg.: "John Smith" not "Smith John". Print clearly !
<b>VESSEL NAME</b>	Full unabbreviated name. Eg.: a boat with name "Captain Paul Catchit" should not be abbreviated to Capt. P.Catchit.
<b>PAGE OF</b>	Number each PS-3 form from start until end of trip. Because one PS-3 is used for every set this is also the set No.
<b>OBSERVER TRIP ID No.</b>	This number is the same on all forms for a single observer trip.
<b>START of SET</b> Observer (PS-2)	The exact date and time that the observer recorded for this set on the PS-2. Record as year/month/day.
<b>DATE and TIME</b> Vessel (logsheet)	The exact date and time that the vessel has recorded for this set on their PS Log Sheet. Record as year/month/date.

<b>SET SEQUENCE</b>	<b>BEGIN SET (S KIFF OFF)</b>	Exact same time as recorded on the daily log (PS-2) and in the "Observer Start of Set Date and Time" section, above.
	<b>BEGIN PURSING (WINCH ON)</b>	The purse wire will be thrown to the vessel from the skiff, and it will then be attached to the winch. Record the time the winch is switched on.
	<b>END PURSING (RINGS UP)</b>	During the winching, a bunch of rings will come on board. Record the time when the last of the rings appears. This indicates the net has totally enclosed (pursed) the fish and they cannot escape.
	<b>BEGIN BRAILING</b>	Record the time the vessel starts the brailing process. This will have been recorded on the PS-4 form. If there was no brailing just record a dash
	<b>END BRAILING / SACK ONBOARD</b>	Record the time when the vessel finishes brailing. If there was no brailing record the time that the sack was lifted up on to the deck.
	<b>END SET (NEXT ACTIVITY START)</b>	Next activity START marks end of set (no later than 'skiff comes on board'). Record the activity change on PS-2.

<b>TOTAL CATCH and TOTAL TUNA CATCH</b>	
<b>Brail Capacity</b>	Find on the PS-1. Use to calculate total catch. <b>'Brail capacity' x 'Sum of all brails' = 'TOTAL CATCH'</b>
<b>Sum of all brails</b>	After calculating the total number of brails on the PS-4 form (for the same set) transfer your answer here.
Type 1 and Type 2 brails	... if a 2nd brail type is also used for this set samples, estimates of the brail capacity for both brail types must be made. Fill the 'brail capacity' and the 'sum of all brail' fields for both the 'type 1' and the 'type 2' brails. Add calculations of total catch from each brail type together to get a single "TOTAL CATCH" figure. (If there is no 'type 2' brail (which is normal) then simply record a dash in each of the 'type 2' fields and all other calculations will be based only on the 'type 1' brail information that is provided.)
<b>TOTAL CATCH less bycatch</b>	This is the combined weight of all the (target and bycatch species) fish brought onboard. Calculate the amount of bycatch (in mT) that is in the catch in the bycatch area below and transfer to this field
<b>TOTAL TUNA CATCH</b>	Subtract the total amount of bycatch from the TOTAL CATCH to get TOTAL TUNA CATCH. This includes all tuna caught whether or not it is later discarded. It does not include tuna that escaped <b>alive</b> from net.

<b>OBSERVER'S BREAKDOWN of TOTAL TUNA CAUGHT</b>	<b>YES or NO</b>	YES' or NO' <b>must</b> be circled to show if SKJ, small YFT, large YFT, small BET, large BET were even seen in the catch
<b>%</b>		Carefully eye-estimate the <b>percentage of the TOTAL TUNA</b> for each species (+ each size category for YFT and BET) N.B.: % of small (or large) YFT (or BET) is the % of <b>TOTAL TUNA</b> ! NOT % of that species of tuna.
<b>Number</b>		If there are not many large YFT or BET and good estimate of number can be made record number of large YFT (or BET) If a <b>good</b> estimate (counts) is not easy, dash the 'number' field. <b>Do not</b> make a rough estimate !

<b>SET CATCH DETAILS</b>	<b>BY-CATCH SPECIES CODE</b>	Record every species that lands on deck with the three letter FAO species code.
	<b>FATE CODE</b>	Use fate codes provided to say what happened to each species landed Use 1 line per species/fate group. Remember that a species may be split into groups each with a different fate code. Eg: RRU RWW 2 mT <b>REMEMBER</b> - use only one (the best and most informative) code for each line. RRU DTS 0.5 mT <b>NEW 2014:</b> Use the SSI FATE CODES FOR ALL SHARKS to indicate 'live' status. Use 'RFR' / 'DFR' in comments if finning observed).
	<b>OBSERVER (mT)</b>	Calculate the amount of each species caught, in each fate code category, using an appropriate assessment technique. Use mT. For instance if 300 kg of Mahi mahi and 40 kg of wahoo were caught - record 0.3 mt DOL /0.04 mt WAH
	<b>Number</b>	Only record a number if an accurate count is possible. Large amounts are recorded in "mT". If possible record both.
	<b>VESSEL LOG (mT)</b>	Copy the figures recorded by the ship's officers on the Vessel Logsheet, for this set.
	<b>Number</b>	Place a dash in the column if they have not recorded the species.
<b>Total weight of bycatch</b>	Calculate from the fields above for observer (important for use in 'Total Tuna' calculation) and vessel bycatch estimates	

<b>TAGS</b>	<b>TARGET TUNA</b>	
	<b>A. OBSERVER estimates of total caught</b>	Calculate the combined large and small <b>% x Total tuna catch</b> for each species (SKJ, YFT and BET)
	<b>FATE</b>	Record fate of discarded tuna or tuna retained for crew consumption (RCC), using fate codes listed at bottom of form
	<b>OBS (mT)</b>	Give a careful approximation (eye-estimate) of the total amount of catch for the relevant fate /species code combination. Record the amounts in metric tonnes.
	<b>VES (mT)</b>	Copy the weight, as recorded for each species in the vessel's logsheet. If nothing is recorded in the logsheet place a dash in the data field. If "0" is recorded on the logsheet record "0" here. <b>Record in metric tonnes.</b> Eg.: If amount on logsheet is in short tons this <b>MUST</b> be converted to metric tonnes.
	<b>B. OBSERVER totals (mT) discards + RCC</b>	For each species add together the mT amounts that are recorded in the rows 'a.', 'b.' and 'c' to get the total of all the discarded and the retained for crew consumption (RCC) combined for that species.
	<b>Tuna kept onboard for later unload</b>	Usually tuna are retained whole weight (RWW). If so then RWW can be calculated as (A. - B.) for each species. If tuna is otherwise retained onboard for later unload (fate = R??) then A. - B. = the combined total of RWW + R??
	<b>Due to gear break / bycatch mitigation</b>	ESC Best observer estimate of mT of any live tuna that escaped during set. Refer to Captain for any tuna seen escaping via sonar. Include any live tuna escaped from gear breakage or because vessel tries to release important bycatch. N.B. This does not include dead tuna that are released from the net after a breakdown during or after net sac-up = discards.
	<b>How many tags were recovered? species and tag numbers</b>	Note the number of tags found from in this set. Look out for tags on tuna, billfish, sharks, turtles, birds, etc. Record <b>tag number</b> and <b>species</b> . Note tag colour, tagging organisation and any unusual features about condition. Fill these and other tag details into the tag recovery form (and GEN-2 form if necessary).

# SPC/FFA REGIONAL PURSE SEINE OBSERVER SET DETAILS

**FORM PS - 3**

REV. MAR. 2014

OBSERVER NAME	VESSEL NAME	PAGE _____ OF _____ (SET No.)
OBSERVER TRIP I.D. NUMBER	START OF SET DATE AND TIME OBSERVER: YY MM DD hh mm (see PS-2)	START OF SET DATE AND TIME VESSEL LOG: YY MM DD hh mm

SET SEQUENCE TIMES						
EVENT:	START OF SET (SKIFF OFF)	BEGIN PURSING (WINCH ON)	END PURSING (RINGS UP)	BEGIN BRAILING	END OF BRAILING / SACK ONBOARD	END OF SET (NEXT ACTIVITY START)
TIME:						

SET CATCH DETAILS													
OBSERVER'S BREAKDOWN OF TOTAL TUNA CAUGHT <small>- circle YES or NO for each species</small>										N.B.: these calculations include all the tuna in this catch, whether retained or discarded			
brail capacity ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT <small>Type 1 brail (see PS-1 form)</small>		sum of all brails ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT <small>(see PS-4 form)</small>		Total catch less bycatch (see below) = Total tuna catch <input type="text"/> mT		<b>SKIP-JACK</b>		<b>YELLOWFIN</b> SMALL (< 75 cm)      LARGE (> 75 cm)			<b>BIGEYE</b> SMALL (< 75 cm)      LARGE (> 75 cm)		
YES	(%)	YES	(%)	YES	(%)	NUMBER	YES	(%)	YES	(%)	NUMBER		
NO		NO		NO			NO		NO				

BY-CATCH (ALL NON-TARGET SPECIES)						TARGET TUNA			
SPECIES CODE	FATE CODE	OBSERVER No. (mT)	VESSEL LOG No. (mT)	COMMENTS	A. OBSERVER estimates of total of each species caught (mT)	SKJ	YFT	BET	
					Observer	FATE			
						a. (mT)			
					Vessel	FATE			
						(mT)			
					Observer	FATE			
						b. (mT)			
					Vessel	FATE			
						(mT)			
					Observer	FATE			
						c. (mT)			
					Vessel	FATE			
						(mT)			
Total weight of bycatch: _____ mT					B. OBSERVER totals (mT) discards + RCC (a+b+c):				
Comments					Tuna kept onboard for later unload if not RWW	FATE			
						OBS (mT)			
						VES (mT)			
					FATE	RWW	RWW	RWW	
					Due to gear break / bycatch mitigation	OBS (mT)			
						VES (mT)			
						ESC	ESC	ESC	
<b>TAGS - How many Tags were recovered?</b>					estimates	OBS (mT)			
<small>Record species and tag numbers. Fill tag recovery forms!</small>						VES (mT)			

FATE CODES			
RWW	Retained - whole weight	DFR	Discarded trunk - fins retained (shark only)
RHG	Retained - headed and gutted (billfish only)	DTS	Discarded - too small (tuna only)
RGG	Retained - gilled and gutted (kept for sale)	DGD	Discarded - gear damage (tuna only)
RPT	Retained - partial (e.g. fillet, loin)	DVF	Discarded - vessel fully loaded
RCC	Retained - crew consumption (onboard)	DUS	Discarded - unwanted species
ROR	Retained - other reason (specify)	DSD	Discarded - shark damage
RFR	Retained trunk - fins retained (shark only)	DWD	Discarded - whale damage
DPA	Discarded SSI - alive	DPA	
DPD	(species of special interest) - dead	DPD	
DPU	- unknown condition	DPU	
DPQ	Discarded - poor quality		
DOR	Discarded - other reasons (specify)		
ESC	= Escaped		

(A PS-3 form **must** be filled out for the first and every set (recorded as *activity code 1* on PS-2) - whether monitored or not, even if a skunk set.) (For the very rare occasion that a set is not monitored the column for the vessel's estimate of catch must still be completed.) (N.B.: A PS-4 form is not required for skunk set.)

<b>OBSERVER NAME</b>	Print first name first and last name last. Eg.: "John Smith" not "Smith John". Print clearly !
<b>VESSEL NAME</b>	Full unabbreviated name. Eg.: a boat with name "Captain Paul Catchit" should not be abbreviated to Capt. P.Catchit.
<b>PAGE OF</b>	Number each PS-3 form from start until end of trip. Because one PS-3 is used for every set this is also the set No.
<b>OBSERVER TRIP ID No.</b>	This number is the same on all forms for a single observer trip.
<b>START of SET</b> Observer (PS-2)	The exact date and time that the observer recorded for this set on the PS-2. Record as year/month/day.
<b>DATE and TIME</b> Vessel (logsheet)	The exact date and time that the vessel has recorded for this set on their PS Log Sheet. Record as year/month/date.

<b>SET SEQUENCE</b>	<b>BEGIN SET (S KIFF OFF)</b>	Exact same time as recorded on the daily log (PS-2) and in the "Observer Start of Set Date and Time" section, above.
	<b>BEGIN PURSING (WINCH ON)</b>	The purse wire will be thrown to the vessel from the skiff, and it will then be attached to the winch. Record the time the winch is switched on.
	<b>END PURSING (RINGS UP)</b>	During the winching, a bunch of rings will come on board. Record the time when the last of the rings appears. This indicates the net has totally enclosed (pursed) the fish and they cannot escape.
	<b>BEGIN BRAILING</b>	Record the time the vessel starts the brailing process. This will have been recorded on the PS-4 form. If there was no brailing just record a dash
	<b>END BRAILING / SACK ONBOARD</b>	Record the time when the vessel finishes brailing. If there was no brailing record the time that the sack was lifted up on to the deck.
	<b>END SET (NEXT ACTIVITY START)</b>	Next activity START marks end of set (no later than 'skiff comes on board'). Record the activity change on PS-2.

<b>TOTAL CATCH and TOTAL TUNA CATCH</b>	
<b>Brail Capacity</b>	Find on the PS-1. Use to calculate total catch. <b>'Brail capacity' x 'Sum of all brails' = 'TOTAL CATCH'</b>
<b>Sum of all brails</b>	After calculating the total number of brails on the PS-4 form (for the same set) transfer your answer here.
Type 1 and	... if a 2nd brail type is also used for this set samples, estimates of the brail capacity for both brail types must be made. Fill the 'brail capacity' and the 'sum of all brail' fields for both the 'type 1' and the 'type 2' brails.
Type 2 brails	Add calculations of total catch from each brail type together to get a single "TOTAL CATCH" figure. (If there is no 'type 2' brail (which is normal) then simply record a dash in each of the 'type 2' fields and all other calculations will be based only on the 'type 1' brail information that is provided.)
<b>TOTAL CATCH</b>	This is the combined weight of all the (target and bycatch species) fish brought onboard.
<b>less bycatch</b>	Calculate the amount of bycatch (in mT) that is in the catch in the bycatch area below and transfer to this field
<b>TOTAL TUNA CATCH</b>	Subtract the total amount of bycatch from the TOTAL CATCH to get TOTAL TUNA CATCH. This includes all tuna caught whether or not it is later discarded. It does not include tuna that escaped <b>alive</b> from net.

<b>OBSERVER'S BREAKDOWN of TOTAL TUNA CAUGHT</b>	<b>YES or NO</b>	YES' or NO' <b>must</b> be circled to show if SKJ, small YFT, large YFT, small BET, large BET were even seen in the catch
<b>%</b>		Carefully eye-estimate the <b>percentage of the TOTAL TUNA</b> for each species (+ each size category for YFT and BET) N.B.: % of small (or large) YFT (or BET) is the % of <b>TOTAL TUNA</b> ! NOT % of that species of tuna.
<b>Number</b>		If there are not many large YFT or BET and good estimate of number can be made record number of large YFT (or BET) If a <b>good</b> estimate (counts) is not easy, dash the 'number' field. <b>Do not</b> make a rough estimate !

<b>SET CATCH DETAILS</b>	<b>BY-CATCH SPECIES CODE</b>	Record every species that lands on deck with the three letter FAO species code.
	<b>FATE CODE</b>	Use fate codes provided to say what happened to each species landed Use 1 line per species/fate group. Remember that a species may be split into groups each with a different fate code. Eg: RRU RWW 2 mT <b>REMEMBER</b> - use only one (the best and most informative) code for each line. RRU DTS 0.5 mT <b>NEW 2014:</b> Use the SSI FATE CODES FOR ALL SHARKS to indicate 'live' status. Use 'RFR' / 'DFR' in comments if finning observed).
	<b>OBSERVER</b>	
	<b>(mT)</b>	Calculate the amount of each species caught, in each fate code category, using an appropriate assessment technique. Use mT. For instance if 300 kg of Mahi mahi and 40 kg of wahoo were caught - record 0.3 mt DOL /0.04 mt WAH
	<b>Number</b>	Only record a number if an accurate count is possible. Large amounts are recorded in "mT". If possible record both.
	<b>VESSEL LOG</b>	
<b>(mT)</b>	Copy the figures recorded by the ship's officers on the Vessel Logsheet, for this set.	
<b>Number</b>	Place a dash in the column if they have not recorded the species.	
<b>Total weight of bycatch</b>	Calculate from the fields above for observer (important for use in 'Total Tuna' calculation) and vessel bycatch estimates	

<b>TAGS</b>	<b>TARGET TUNA</b>	
	<b>A. OBSERVER estimates of total caught</b>	Calculate the combined large and small <b>% x Total tuna catch</b> for each species (SKJ, YFT and BET)
	<b>FATE</b>	Record fate of discarded tuna or tuna retained for crew consumption (RCC), using fate codes listed at bottom of form
	<b>OBS (mT)</b>	Give a careful approximation (eye-estimate) of the total amount of catch for the relevant fate /species code combination. Record the amounts in metric tonnes.
	<b>VES (mT)</b>	Copy the weight, as recorded for each species in the vessel's logsheet. If nothing is recorded in the logsheet place a dash in the data field. If "0" is recorded on the logsheet record "0" here. <b>Record in metric tonnes.</b> Eg.: If amount on logsheet is in short tons this <b>MUST</b> be converted to metric tonnes.
	<b>B. OBSERVER totals (mT) discards + RCC</b>	For each species add together the mT amounts that are recorded in the rows 'a.', 'b.' and 'c' to get the total of all the discarded and the retained for crew consumption (RCC) combined for that species.
	<b>Tuna kept onboard for later unload</b>	Usually tuna are retained whole weight (RWW). If so then RWW can be calculated as (A. - B.) for each species. If tuna is otherwise retained onboard for later unload (fate = R??) then A. - B. = the combined total of RWW + R??
	<b>Due to gear break / bycatch mitigation</b>	ESC Best observer estimate of mT of any live tuna that escaped during set. Refer to Captain for any tuna seen escaping via sonar. Include any live tuna escaped from gear breakage or because vessel tries to release important bycatch. N.B. This does not include dead tuna that are released from the net after a breakdown during or after net sac-up = discards.
	<b>How many tags were recovered? species and tag numbers</b>	Note the number of tags found from in this set. Look out for tags on tuna, billfish, sharks, turtles, birds, etc. Record <b>tag number</b> and <b>species</b> . Note tag colour, tagging organisation and any unusual features about condition. Fill these and other tag details into the tag recovery form (and GEN-2 form if necessary).

# SPC/FFA REGIONAL PURSE SEINE OBSERVER SET DETAILS

**FORM PS - 3**

REV. MAR. 2014

OBSERVER NAME	VESSEL NAME	PAGE _____ OF _____ (SET No.)
OBSERVER TRIP I.D. NUMBER	START OF SET DATE AND TIME OBSERVER: YY MM DD hh mm (see PS-2)	START OF SET DATE AND TIME VESSEL LOG: YY MM DD hh mm

SET SEQUENCE TIMES						
EVENT:	START OF SET (SKIFF OFF)	BEGIN PURSING (WINCH ON)	END PURSING (RINGS UP)	BEGIN BRAILING	END OF BRAILING / SACK ONBOARD	END OF SET (NEXT ACTIVITY START)
TIME:						

SET CATCH DETAILS											
OBSERVER'S BREAKDOWN OF TOTAL TUNA CAUGHT <small>- circle YES or NO for each species</small>										N.B.: these calculations include all the tuna in this catch, whether retained or discarded	
brail capacity ( <input type="text"/> mT ) <small>Type 1 brail (see PS-1 form)</small>		sum of all brails x ( <input type="text"/> ) <small>(see PS-4 form)</small>		= <input type="text"/> mT less bycatch (see below)		= <input type="text"/> mT = Total tuna catch					
		+ ( <input type="text"/> mT ) <small>type 2 brail</small>									
SKIP-JACK		YELLOWFIN				BIGEYE					
		SMALL (< 75 cm)		LARGE (> 75 cm)		SMALL (< 75 cm)		LARGE (> 75 cm)			
YES	(%)	YES	(%)	YES	(%)	NUMBER	YES	(%)	YES	(%)	NUMBER
NO		NO		NO			NO		NO		

BY-CATCH (ALL NON-TARGET SPECIES)						TARGET TUNA					
SPECIES CODE	FATE CODE	OBSERVER No. (mT)	VESSEL LOG No. (mT)	COMMENTS		SKJ	YFT	BET			
						A. OBSERVER estimates of total of each species caught (mT)					
						Observer	FATE				
						Observer	a. (mT)				
						Vessel	FATE				
						Vessel	(mT)				
						Observer	FATE				
						Observer	b. (mT)				
						Vessel	FATE				
						Vessel	(mT)				
						Observer	FATE				
						Observer	c. (mT)				
						Vessel	FATE				
						Vessel	(mT)				
Total weight of bycatch: _____ mT						B. OBSERVER totals (mT) discards + RCC (a+b+c): _____					
Comments						Tuna kept onboard for later unload if not RWW	FATE				
							OBS (mT)				
							VES (mT)				
						FATE	RWW	RWW	RWW		
						OBS (mT)					
						VES (mT)					
						Due to gear break / bycatch mitigation			ESC	ESC	ESC
						estimates	OBS (mT)				
							VES (mT)				
<b>TAGS - How many Tags were recovered?</b>						Record species and tag numbers. Fill tag recovery forms!					

FATE CODES			
RWW	Retained - whole weight	DFR	Discarded trunk - fins retained (shark only)
RHG	Retained - headed and gutted (billfish only)	DTS	Discarded - too small (tuna only)
RGG	Retained - gilled and gutted (kept for sale)	DGD	Discarded - gear damage (tuna only)
RPT	Retained - partial (e.g. fillet, loin)	DVF	Discarded - vessel fully loaded
RCC	Retained - crew consumption (onboard)	DUS	Discarded - unwanted species
ROR	Retained - other reason (specify)	DSD	Discarded - shark damage
RFR	Retained trunk - fins retained (shark only)	DWD	Discarded - whale damage
DPA	Discarded SSI - alive	DPA	
DPD	(species of special interest) - dead	DPD	
DPU	- unknown condition	DPU	
DPQ	Discarded - poor quality		
DOR	Discarded - other reasons (specify)		
ESC	= Escaped		

(A PS-3 form **must** be filled out for the first and every set (recorded as *activity code 1* on PS-2) - whether monitored or not, even if a skunk set.) (For the very rare occasion that a set is not monitored the column for the vessel's estimate of catch must still be completed.) (N.B.: A PS-4 form is not required for skunk set.)

<b>OBSERVER NAME</b>	Print first name first and last name last. Eg.: "John Smith" not "Smith John". Print clearly !
<b>VESSEL NAME</b>	Full unabbreviated name. Eg.: a boat with name "Captain Paul Catchit" should not be abbreviated to Capt. P.Catchit.
<b>PAGE OF</b>	Number each PS-3 form from start until end of trip. Because one PS-3 is used for every set this is also the set No.
<b>OBSERVER TRIP ID No.</b>	This number is the same on all forms for a single observer trip.
<b>START of SET</b> Observer (PS-2)	The exact date and time that the observer recorded for this set on the PS-2. Record as year/month/day.
<b>DATE and TIME</b> Vessel (logsheet)	The exact date and time that the vessel has recorded for this set on their PS Log Sheet. Record as year/month/date.

<b>SET SEQUENCE</b>	<b>BEGIN SET (S KIFF OFF)</b>	Exact same time as recorded on the daily log (PS-2) and in the "Observer Start of Set Date and Time" section, above.
	<b>BEGIN PURSING (WINCH ON)</b>	The purse wire will be thrown to the vessel from the skiff, and it will then be attached to the winch. Record the time the winch is switched on.
	<b>END PURSING (RINGS UP)</b>	During the winching, a bunch of rings will come on board. Record the time when the last of the rings appears. This indicates the net has totally enclosed (pursed) the fish and they cannot escape.
	<b>BEGIN BRAILING</b>	Record the time the vessel starts the brailing process. This will have been recorded on the PS-4 form. If there was no brailing just record a dash
	<b>END BRAILING / SACK ONBOARD</b>	Record the time when the vessel finishes brailing. If there was no brailing record the time that the sack was lifted up on to the deck.
	<b>END SET (NEXT ACTIVITY START)</b>	Next activity START marks end of set (no later than 'skiff comes on board'). Record the activity change on PS-2.

<b>TOTAL CATCH and TOTAL TUNA CATCH</b>	
<b>Brail Capacity</b>	Find on the PS-1. Use to calculate total catch. <b>'Brail capacity' x 'Sum of all brails' = 'TOTAL CATCH'</b>
<b>Sum of all brails</b>	After calculating the total number of brails on the PS-4 form (for the same set) transfer your answer here.
Type 1 and	... if a 2nd brail type is also used for this set samples, estimates of the brail capacity for both brail types must be made. Fill the 'brail capacity' and the 'sum of all brail' fields for both the 'type 1' and the 'type 2' brails.
Type 2 brails	Add calculations of total catch from each brail type together to get a single "TOTAL CATCH" figure. (If there is no 'type 2' brail (which is normal) then simply record a dash in each of the 'type 2' fields and all other calculations will be based only on the 'type 1' brail information that is provided.)
<b>TOTAL CATCH</b>	This is the combined weight of all the (target and bycatch species) fish brought onboard.
<b>less bycatch</b>	Calculate the amount of bycatch (in mT) that is in the catch in the bycatch area below and transfer to this field
<b>TOTAL TUNA CATCH</b>	Subtract the total amount of bycatch from the TOTAL CATCH to get TOTAL TUNA CATCH. This includes all tuna caught whether or not it is later discarded. It does not include tuna that escaped <b>alive</b> from net.

<b>OBSERVER'S BREAKDOWN of TOTAL TUNA CAUGHT</b>	<b>YES or NO</b>	YES' or NO' <b>must</b> be circled to show if SKJ, small YFT, large YFT, small BET, large BET were even seen in the catch
<b>%</b>		Carefully eye-estimate the <b>percentage of the TOTAL TUNA</b> for each species (+ each size category for YFT and BET) N.B.: % of small (or large) YFT (or BET) is the % of <b>TOTAL TUNA</b> ! NOT % of that species of tuna.
<b>Number</b>		If there are not many large YFT or BET and good estimate of number can be made record number of large YFT (or BET) If a <b>good</b> estimate (counts) is not easy, dash the 'number' field. <b>Do not</b> make a rough estimate !

<b>SET CATCH DETAILS</b>	<b>BY-CATCH SPECIES CODE</b>	Record every species that lands on deck with the three letter FAO species code.
	<b>FATE CODE</b>	Use fate codes provided to say what happened to each species landed Use 1 line per species/fate group. Remember that a species may be split into groups each with a different fate code. Eg: RRU RWW 2 mT <b>REMEMBER</b> - use only one (the best and most informative) code for each line. RRU DTS 0.5 mT <b>NEW 2014:</b> Use the SSI FATE CODES FOR ALL SHARKS to indicate 'live' status. Use 'RFR' / 'DFR' in comments if finning observed).
	<b>OBSERVER</b>	
	<b>(mT)</b>	Calculate the amount of each species caught, in each fate code category, using an appropriate assessment technique. Use mT. For instance if 300 kg of Mahi mahi and 40 kg of wahoo were caught - record 0.3 mt DOL /0.04 mt WAH
	<b>Number</b>	Only record a number if an accurate count is possible. Large amounts are recorded in "mT". If possible record both.
	<b>VESSEL LOG</b>	
<b>(mT)</b>	Copy the figures recorded by the ship's officers on the Vessel Logsheet, for this set.	
<b>Number</b>	Place a dash in the column if they have not recorded the species.	
<b>Total weight of bycatch</b>	Calculate from the fields above for observer (important for use in 'Total Tuna' calculation) and vessel bycatch estimates	

<b>TAGS</b>	<b>TARGET TUNA</b>	
	<b>A. OBSERVER estimates of total caught</b>	Calculate the combined large and small <b>% x Total tuna catch</b> for each species (SKJ, YFT and BET)
	<b>FATE</b>	Record fate of discarded tuna or tuna retained for crew consumption (RCC), using fate codes listed at bottom of form
	<b>OBS (mT)</b>	Give a careful approximation (eye-estimate) of the total amount of catch for the relevant fate /species code combination. Record the amounts in metric tonnes.
	<b>VES (mT)</b>	Copy the weight, as recorded for each species in the vessel's logsheet. If nothing is recorded in the logsheet place a dash in the data field. If "0" is recorded on the logsheet record "0" here. <b>Record in metric tonnes.</b> Eg.: If amount on logsheet is in short tons this <b>MUST</b> be converted to metric tonnes.
	<b>B. OBSERVER totals (mT) discards + RCC</b>	For each species add together the mT amounts that are recorded in the rows 'a.', 'b.' and 'c' to get the total of all the discarded and the retained for crew consumption (RCC) combined for that species.
	<b>Tuna kept onboard for later unload</b>	Usually tuna are retained whole weight (RWW). If so then RWW can be calculated as (A. - B.) for each species. If tuna is otherwise retained onboard for later unload (fate = R??) then A. - B. = the combined total of RWW + R??
	<b>Due to gear break / bycatch mitigation</b>	ESC Best observer estimate of mT of any live tuna that escaped during set. Refer to Captain for any tuna seen escaping via sonar. Include any live tuna escaped from gear breakage or because vessel tries to release important bycatch. N.B. This does not include dead tuna that are released from the net after a breakdown during or after net sac-up = discards.
	<b>How many tags were recovered ? species and tag numbers</b>	Note the number of tags found from in this set. Look out for tags on tuna, billfish, sharks, turtles, birds, etc. Record <b>tag number</b> and <b>species</b> . Note tag colour, tagging organisation and any unusual features about condition. Fill these and other tag details into the tag recovery form (and GEN-2 form if necessary).



# SPC/FFA REGIONAL PURSE SEINE OBSERVER SET DETAILS

**FORM PS - 3**

REV. MAR. 2014

OBSERVER NAME	VESSEL NAME	PAGE _____ OF _____ (SET No.)
OBSERVER TRIP I.D. NUMBER	START OF SET DATE AND TIME OBSERVER: YY MM DD hh mm (see PS-2)	START OF SET DATE AND TIME VESSEL LOG: YY MM DD hh mm

SET SEQUENCE TIMES						
EVENT:	START OF SET (SKIFF OFF)	BEGIN PURSING (WINCH ON)	END PURSING (RINGS UP)	BEGIN BRAILING	END OF BRAILING / SACK ONBOARD	END OF SET (NEXT ACTIVITY START)
TIME:						

SET CATCH DETAILS											
OBSERVER'S BREAKDOWN OF TOTAL TUNA CAUGHT <small>- circle YES or NO for each species</small>										N.B.: these calculations include all the tuna in this catch, whether retained or discarded	
brail capacity ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT <small>Type 1 brail (see PS-1 form)</small>		sum of all brails ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT <small>(see PS-4 form)</small>		Total catch less bycatch (see below) = Total tuna catch <input type="text"/> mT		<b>SKIP-JACK</b> YES (%) NO		<b>YELLOWFIN</b> SMALL (< 75 cm) LARGE (> 75 cm) YES (%) NO		<b>BIGEYE</b> SMALL (< 75 cm) LARGE (> 75 cm) YES (%) NO	
type 2 brail ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT											

BY-CATCH (ALL NON-TARGET SPECIES)					TARGET TUNA					
SPECIES CODE	FATE CODE	OBSERVER No. (mT)	VESSEL LOG No. (mT)	COMMENTS	A. OBSERVER estimates of total of each species caught (mT)			SKJ	YFT	BET
						Observer	FATE			
						Observer	a. (mT)			
						Vessel	FATE			
						Vessel	(mT)			
						Observer	FATE			
						Observer	b. (mT)			
						Vessel	FATE			
						Vessel	(mT)			
						Observer	FATE			
						Observer	c. (mT)			
						Vessel	FATE			
						Vessel	(mT)			
Total weight of bycatch: _____ mT					B. OBSERVER totals (mT) discards + RCC (a+b+c): _____					
Comments					Tuna kept onboard for later unload if not RWW	Observer	FATE			
						Observer	OBS (mT)			
						Vessel	VES (mT)			
					Observer	FATE	RWW	RWW	RWW	
					Observer	OBS (mT)				
					Vessel	VES (mT)				
					Due to gear break / bycatch mitigation		ESC	ESC	ESC	
					estimates	Observer	OBS (mT)			
						Vessel	VES (mT)			
<b>TAGS - How many Tags were recovered?</b>					Record species and tag numbers. Fill tag recovery forms!					

FATE CODES			
RWW	Retained - whole weight	DFR	Discarded trunk - fins retained (shark only)
RHG	Retained - headed and gutted (billfish only)	DTS	Discarded - too small (tuna only)
RGG	Retained - gilled and gutted (kept for sale)	DGD	Discarded - gear damage (tuna only)
RPT	Retained - partial (e.g. fillet, loin)	DVF	Discarded - vessel fully loaded
RCC	Retained - crew consumption (onboard)	DUS	Discarded - unwanted species
ROR	Retained - other reason (specify)	DSD	Discarded - shark damage
RFR	Retained trunk - fins retained (shark only)	DWD	Discarded - whale damage
DPA	Discarded SSI - alive	DPA	
DPD	(species of special interest) - dead	DPD	
DPU	- unknown condition	DPU	
DPQ	Discarded - poor quality		
DOR	Discarded - other reasons (specify)		
ESC	= Escaped		

(A PS-3 form **must** be filled out for the first and every set (recorded as *activity code 1* on PS-2) - whether monitored or not, even if a skunk set.) (For the very rare occasion that a set is not monitored the column for the vessel's estimate of catch must still be completed.) (N.B.: A PS-4 form is not required for skunk set.)

<b>OBSERVER NAME</b>	Print first name first and last name last. Eg.: "John Smith" not "Smith John". Print clearly !
<b>VESSEL NAME</b>	Full unabbreviated name. Eg.: a boat with name "Captain Paul Catchit" should not be abbreviated to Capt. P.Catchit.
<b>PAGE OF</b>	Number each PS-3 form from start until end of trip. Because one PS-3 is used for every set this is also the set No.
<b>OBSERVER TRIP ID No.</b>	This number is the same on all forms for a single observer trip.
<b>START of SET</b> Observer (PS-2)	The exact date and time that the observer recorded for this set on the PS-2. Record as year/month/day.
<b>DATE and TIME</b> Vessel (logsheet)	The exact date and time that the vessel has recorded for this set on their PS Log Sheet. Record as year/month/date.

<b>SET SEQUENCE</b>	<b>BEGIN SET (S KIFF OFF)</b>	Exact same time as recorded on the daily log (PS-2) and in the "Observer Start of Set Date and Time" section, above.
	<b>BEGIN PURSING (WINCH ON)</b>	The purse wire will be thrown to the vessel from the skiff, and it will then be attached to the winch. Record the time the winch is switched on.
	<b>END PURSING (RINGS UP)</b>	During the winching, a bunch of rings will come on board. Record the time when the last of the rings appears. This indicates the net has totally enclosed (pursed) the fish and they cannot escape.
	<b>BEGIN BRAILING</b>	Record the time the vessel starts the brailing process. This will have been recorded on the PS-4 form. If there was no brailing just record a dash
	<b>END BRAILING / SACK ONBOARD</b>	Record the time when the vessel finishes brailing. If there was no brailing record the time that the sack was lifted up on to the deck.
	<b>END SET (NEXT ACTIVITY START)</b>	Next activity START marks end of set (no later than 'skiff comes on board'). Record the activity change on PS-2.

<b>TOTAL CATCH and TOTAL TUNA CATCH</b>	
<b>Brail Capacity</b>	Find on the PS-1. Use to calculate total catch. <b>'Brail capacity' x 'Sum of all brails' = 'TOTAL CATCH'</b>
<b>Sum of all brails</b>	After calculating the total number of brails on the PS-4 form (for the same set) transfer your answer here.
Type 1 and Type 2 brails	... if a 2nd brail type is also used for this set samples, estimates of the brail capacity for both brail types must be made. Fill the 'brail capacity' and the 'sum of all brail' fields for both the 'type 1' and the 'type 2' brails. Add calculations of total catch from each brail type together to get a single "TOTAL CATCH" figure. (If there is no 'type 2' brail (which is normal) then simply record a dash in each of the 'type 2' fields and all other calculations will be based only on the 'type 1' brail information that is provided.)
<b>TOTAL CATCH less bycatch</b>	This is the combined weight of all the (target and bycatch species) fish brought onboard. Calculate the amount of bycatch (in mT) that is in the catch in the bycatch area below and transfer to this field
<b>TOTAL TUNA CATCH</b>	Subtract the total amount of bycatch from the TOTAL CATCH to get TOTAL TUNA CATCH. This includes all tuna caught whether or not it is later discarded. It does not include tuna that escaped <b>alive</b> from net.

<b>OBSERVER'S BREAKDOWN of TOTAL TUNA CAUGHT</b>	<b>YES or NO</b>	YES' or NO' <b>must</b> be circled to show if SKJ, small YFT, large YFT, small BET, large BET were even seen in the catch
<b>%</b>		Carefully eye-estimate the <b>percentage of the TOTAL TUNA</b> for each species (+ each size category for YFT and BET) N.B.: % of small (or large) YFT (or BET) is the % of <b>TOTAL TUNA</b> ! NOT % of that species of tuna.
<b>Number</b>		If there are not many large YFT or BET and good estimate of number can be made record number of large YFT (or BET) If a <b>good</b> estimate (counts) is not easy, dash the 'number' field. <b>Do not</b> make a rough estimate !

<b>SET CATCH DETAILS</b>	<b>BY-CATCH SPECIES CODE</b>	Record every species that lands on deck with the three letter FAO species code.
	<b>FATE CODE</b>	Use fate codes provided to say what happened to each species landed Use 1 line per species/fate group. Remember that a species may be split into groups each with a different fate code. Eg: RRU RWW 2 mT <b>REMEMBER</b> - use only one (the best and most informative) code for each line. RRU DTS 0.5 mT <b>NEW 2014:</b> Use the SSI FATE CODES FOR ALL SHARKS to indicate 'live' status. Use 'RFR' / 'DFR' in comments if finning observed).
	<b>OBSERVER (mT)</b>	Calculate the amount of each species caught, in each fate code category, using an appropriate assessment technique. Use mT. For instance if 300 kg of Mahi mahi and 40 kg of wahoo were caught - record 0.3 mt DOL /0.04 mt WAH
	<b>Number</b>	Only record a number if an accurate count is possible. Large amounts are recorded in "mT". If possible record both.
	<b>VESSEL LOG (mT)</b>	Copy the figures recorded by the ship's officers on the Vessel Logsheet, for this set.
	<b>Number</b>	Place a dash in the column if they have not recorded the species.
<b>Total weight of bycatch</b>	Calculate from the fields above for observer (important for use in 'Total Tuna' calculation) and vessel bycatch estimates	

<b>TAGS</b>	<b>TARGET TUNA</b>	
	<b>A. OBSERVER estimates of total caught</b>	Calculate the combined large and small <b>% x Total tuna catch</b> for each species (SKJ, YFT and BET)
	<b>FATE</b>	Record fate of discarded tuna or tuna retained for crew consumption (RCC), using fate codes listed at bottom of form
	<b>OBS (mT)</b>	Give a careful approximation (eye-estimate) of the total amount of catch for the relevant fate /species code combination. Record the amounts in metric tonnes.
	<b>VES (mT)</b>	Copy the weight, as recorded for each species in the vessel's logsheet. If nothing is recorded in the logsheet place a dash in the data field. If "0" is recorded on the logsheet record "0" here. <b>Record in metric tonnes.</b> Eg.: If amount on logsheet is in short tons this <b>MUST</b> be converted to metric tonnes.
	<b>B. OBSERVER totals (mT) discards + RCC</b>	For each species add together the mT amounts that are recorded in the rows 'a.', 'b.' and 'c' to get the total of all the discarded and the retained for crew consumption (RCC) combined for that species.
	<b>Tuna kept onboard for later unload</b>	Usually tuna are retained whole weight (RWW). If so then RWW can be calculated as (A. - B.) for each species. If tuna is otherwise retained onboard for later unload (fate = R??) then A. - B. = the combined total of RWW + R??
	<b>Due to gear break / bycatch mitigation</b>	ESC Best observer estimate of mT of any live tuna that escaped during set. Refer to Captain for any tuna seen escaping via sonar. Include any live tuna escaped from gear breakage or because vessel tries to release important bycatch. N.B. This does not include dead tuna that are released from the net after a breakdown during or after net sac-up = discards.
	<b>How many tags were recovered? species and tag numbers</b>	Note the number of tags found from in this set. Look out for tags on tuna, billfish, sharks, turtles, birds, etc. Record <b>tag number</b> and <b>species</b> . Note tag colour, tagging organisation and any unusual features about condition. Fill these and other tag details into the tag recovery form (and GEN-2 form if necessary).

# SPC/FFA REGIONAL PURSE SEINE OBSERVER SET DETAILS

**FORM PS - 3**

REV. MAR. 2014

OBSERVER NAME	VESSEL NAME	PAGE _____ OF _____ (SET No.)
OBSERVER TRIP I.D. NUMBER	START OF SET DATE AND TIME OBSERVER: YY MM DD hh mm (see PS-2)	START OF SET DATE AND TIME VESSEL LOG: YY MM DD hh mm

SET SEQUENCE TIMES						
EVENT:	START OF SET (SKIFF OFF)	BEGIN PURSING (WINCH ON)	END PURSING (RINGS UP)	BEGIN BRAILING	END OF BRAILING / SACK ONBOARD	END OF SET (NEXT ACTIVITY START)
TIME:						

SET CATCH DETAILS											
OBSERVER'S BREAKDOWN OF TOTAL TUNA CAUGHT <small>- circle YES or NO for each species</small>										N.B.: these calculations include all the tuna in this catch, whether retained or discarded	
brail capacity ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT <small>Type 1 brail (see PS-1 form)</small>		sum of all brails ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT <small>(see PS-4 form)</small>		Total catch less bycatch (see below) <input type="text"/> mT = Total tuna catch <input type="text"/> mT		<b>SKIP-JACK</b> YES (%) NO YES (%) NO		<b>YELLOWFIN</b> SMALL (< 75 cm) LARGE (> 75 cm) YES (%) NO YES (%) NO		<b>BIGEYE</b> SMALL (< 75 cm) LARGE (> 75 cm) YES (%) NO YES (%) NO	
type 2 brail ( <input type="text"/> mT x <input type="text"/> ) + <input type="text"/> mT											

BY-CATCH (ALL NON-TARGET SPECIES)					TARGET TUNA					
SPECIES CODE	FATE CODE	OBSERVER No. (mT)	VESSEL LOG No. (mT)	COMMENTS	A. OBSERVER estimates of total of each species caught (mT)			SKJ	YFT	BET
					Observer	FATE				
						a. (mT)				
					Vessel	FATE				
						(mT)				
					Observer	FATE				
						b. (mT)				
					Vessel	FATE				
						(mT)				
					Observer	FATE				
						c. (mT)				
					Vessel	FATE				
						(mT)				
Total weight of bycatch: _____ mT					B. OBSERVER totals (mT) discards + RCC (a+b+c): _____					
Comments					Tuna kept onboard for later unload if not RWW	FATE				
						OBS (mT)				
						VES (mT)				
					FATE	RWW	RWW	RWW		
					Due to gear break / bycatch mitigation	ESC	ESC	ESC		
						OBS (mT)				
						VES (mT)				
<b>TAGS - How many Tags were recovered?</b>					Record species and tag numbers. Fill tag recovery forms!					
					estimates	OBS (mT)				
						VES (mT)				

FATE CODES			
RWW	Retained - whole weight	DFR	Discarded trunk - fins retained (shark only)
RHG	Retained - headed and gutted (billfish only)	DTS	Discarded - too small (tuna only)
RGG	Retained - gilled and gutted (kept for sale)	DGD	Discarded - gear damage (tuna only)
RPT	Retained - partial (e.g. fillet, loin)	DVF	Discarded - vessel fully loaded
RCC	Retained - crew consumption (onboard)	DUS	Discarded - unwanted species
ROR	Retained - other reason (specify)	DSD	Discarded - shark damage
RFR	Retained trunk - fins retained (shark only)	DWD	Discarded - whale damage
DPA	Discarded SSI - alive	DPA	
DPD	(species of special interest) - dead	DPD	
DPU	- unknown condition	DPU	
DPQ	Discarded - poor quality		
DOR	Discarded - other reasons (specify)		
ESC	= Escaped		

(A PS-3 form **must** be filled out for the first and every set (recorded as *activity code 1* on PS-2) - whether monitored or not, even if a skunk set.) (For the very rare occasion that a set is not monitored the column for the vessel's estimate of catch must still be completed.) (N.B.: A PS-4 form is not required for skunk set.)

<b>OBSERVER NAME</b>	Print first name first and last name last. Eg.: "John Smith" not "Smith John". Print clearly !
<b>VESSEL NAME</b>	Full unabbreviated name. Eg.: a boat with name "Captain Paul Catchit" should not be abbreviated to Capt. P.Catchit.
<b>PAGE OF</b>	Number each PS-3 form from start until end of trip. Because one PS-3 is used for every set this is also the set No.
<b>OBSERVER TRIP ID No.</b>	This number is the same on all forms for a single observer trip.
<b>START of SET</b> Observer (PS-2)	The exact date and time that the observer recorded for this set on the PS-2. Record as year/month/day.
<b>DATE and TIME</b> Vessel (logsheet)	The exact date and time that the vessel has recorded for this set on their PS Log Sheet. Record as year/month/date.

<b>SET SEQUENCE</b>	<b>BEGIN SET (S KIFF OFF)</b>	Exact same time as recorded on the daily log (PS-2) and in the "Observer Start of Set Date and Time" section, above.
	<b>BEGIN PURSING (WINCH ON)</b>	The purse wire will be thrown to the vessel from the skiff, and it will then be attached to the winch. Record the time the winch is switched on.
	<b>END PURSING (RINGS UP)</b>	During the winching, a bunch of rings will come on board. Record the time when the last of the rings appears. This indicates the net has totally enclosed (pursed) the fish and they cannot escape.
	<b>BEGIN BRAILING</b>	Record the time the vessel starts the brailing process. This will have been recorded on the PS-4 form. If there was no brailing just record a dash
	<b>END BRAILING / SACK ONBOARD</b>	Record the time when the vessel finishes brailing. If there was no brailing record the time that the sack was lifted up on to the deck.
	<b>END SET (NEXT ACTIVITY START)</b>	Next activity START marks end of set (no later than 'skiff comes on board'). Record the activity change on PS-2.

<b>TOTAL CATCH and TOTAL TUNA CATCH</b>	
<b>Brail Capacity</b>	Find on the PS-1. Use to calculate total catch. <b>'Brail capacity' x 'Sum of all brails' = 'TOTAL CATCH'</b>
<b>Sum of all brails</b>	After calculating the total number of brails on the PS-4 form (for the same set) transfer your answer here.
Type 1 and Type 2 brails	... if a 2nd brail type is also used for this set samples, estimates of the brail capacity for both brail types must be made. Fill the 'brail capacity' and the 'sum of all brail' fields for both the 'type 1' and the 'type 2' brails. Add calculations of total catch from each brail type together to get a single "TOTAL CATCH" figure. (If there is no 'type 2' brail (which is normal) then simply record a dash in each of the 'type 2' fields and all other calculations will be based only on the 'type 1' brail information that is provided.)
<b>TOTAL CATCH less bycatch</b>	This is the combined weight of all the (target and bycatch species) fish brought onboard. Calculate the amount of bycatch (in mT) that is in the catch in the bycatch area below and transfer to this field
<b>TOTAL TUNA CATCH</b>	Subtract the total amount of bycatch from the TOTAL CATCH to get TOTAL TUNA CATCH. This includes all tuna caught whether or not it is later discarded. It does not include tuna that escaped <b>alive</b> from net.

<b>OBSERVER'S BREAKDOWN of TOTAL TUNA CAUGHT</b>	<b>YES or NO</b>	YES' or NO' <b>must</b> be circled to show if SKJ, small YFT, large YFT, small BET, large BET were even seen in the catch
<b>%</b>		Carefully eye-estimate the <b>percentage of the TOTAL TUNA</b> for each species (+ each size category for YFT and BET) N.B.: % of small (or large) YFT (or BET) is the % of <b>TOTAL TUNA</b> ! NOT % of that species of tuna.
<b>Number</b>		If there are not many large YFT or BET and good estimate of number can be made record number of large YFT (or BET) If a <b>good</b> estimate (counts) is not easy, dash the 'number' field. <b>Do not</b> make a rough estimate !

<b>SET CATCH DETAILS</b>	<b>BY-CATCH SPECIES CODE</b>	Record every species that lands on deck with the three letter FAO species code.
	<b>FATE CODE</b>	Use fate codes provided to say what happened to each species landed Use 1 line per species/fate group. Remember that a species may be split into groups each with a different fate code. Eg: RRU RWW 2 mT <b>REMEMBER</b> - use only one (the best and most informative) code for each line. RRU DTS 0.5 mT <b>NEW 2014:</b> Use the SSI FATE CODES FOR ALL SHARKS to indicate 'live' status. Use 'RFR' / 'DFR' in comments if finning observed).
	<b>OBSERVER (mT)</b>	Calculate the amount of each species caught, in each fate code category, using an appropriate assessment technique. Use mT. For instance if 300 kg of Mahi mahi and 40 kg of wahoo were caught - record 0.3 mt DOL /0.04 mt WAH
	<b>Number</b>	Only record a number if an accurate count is possible. Large amounts are recorded in "mT". If possible record both.
	<b>VESSEL LOG (mT)</b>	Copy the figures recorded by the ship's officers on the Vessel Logsheet, for this set.
	<b>Number</b>	Place a dash in the column if they have not recorded the species.
<b>Total weight of bycatch</b>	Calculate from the fields above for observer (important for use in 'Total Tuna' calculation) and vessel bycatch estimates	

<b>TAGS</b>	<b>TARGET TUNA</b>	
	<b>A. OBSERVER estimates of total caught</b>	Calculate the combined large and small % x <b>Total tuna catch</b> for each species (SKJ, YFT and BET)
	<b>FATE</b>	Record fate of discarded tuna or tuna retained for crew consumption (RCC), using fate codes listed at bottom of form
	<b>OBS (mT)</b>	Give a careful approximation (eye-estimate) of the total amount of catch for the relevant fate /species code combination. Record the amounts in metric tonnes.
	<b>VES (mT)</b>	Copy the weight, as recorded for each species in the vessel's logsheet. If nothing is recorded in the logsheet place a dash in the data field. If "0" is recorded on the logsheet record "0" here. <b>Record in metric tonnes.</b> Eg.: If amount on logsheet is in short tons this <b>MUST</b> be converted to metric tonnes.
	<b>B. OBSERVER totals (mT) discards + RCC</b>	For each species add together the mT amounts that are recorded in the rows 'a.', 'b.' and 'c' to get the total of all the discarded and the retained for crew consumption (RCC) combined for that species.
	<b>Tuna kept onboard for later unload</b>	Usually tuna are retained whole weight (RWW). If so then RWW can be calculated as (A. - B.) for each species. If tuna is otherwise retained onboard for later unload (fate = R??) then A. - B. = the combined total of RWW + R??
	<b>Due to gear break / bycatch mitigation</b>	ESC Best observer estimate of mT of any live tuna that escaped during set. Refer to Captain for any tuna seen escaping via sonar. Include any live tuna escaped from gear breakage or because vessel tries to release important bycatch. N.B. This does not include dead tuna that are released from the net after a breakdown during or after net sac-up = discards.

<b>TAGS</b>	<b>How many tags were recovered ? species and tag numbers</b>	Note the number of tags found from in this set. Look out for tags on tuna, billfish, sharks, turtles, birds, etc. Record <b>tag number</b> and <b>species</b> . Note tag colour, tagging organisation and any unusual features about condition. Fill these and other tag details into the tag recovery form (and GEN-2 form if necessary).
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# SPC/FFA REGIONAL PURSE SEINE OBSERVER SET DETAILS

**FORM PS - 3**

REV. MAR. 2014

OBSERVER NAME	VESSEL NAME	PAGE _____ OF _____ (SET No.)
OBSERVER TRIP I.D. NUMBER	START OF SET DATE AND TIME OBSERVER: YY MM DD hh mm (see PS-2)	START OF SET DATE AND TIME VESSEL LOG: YY MM DD hh mm

SET SEQUENCE TIMES						
EVENT:	START OF SET (SKIFF OFF)	BEGIN PURSING (WINCH ON)	END PURSING (RINGS UP)	BEGIN BRAILING	END OF BRAILING / SACK ONBOARD	END OF SET (NEXT ACTIVITY START)
TIME:						

SET CATCH DETAILS											
OBSERVER'S BREAKDOWN OF TOTAL TUNA CAUGHT <small>- circle YES or NO for each species</small>										N.B.: these calculations include all the tuna in this catch, whether retained or discarded	
brail capacity ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT <small>Type 1 brail (see PS-1 form)</small>		sum of all brails ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT <small>(see PS-4 form)</small>		Total catch less bycatch (see below) = Total tuna catch <input type="text"/> mT		<b>SKIP-JACK</b> YES (%) NO		<b>YELLOWFIN</b> SMALL (< 75 cm) LARGE (> 75 cm) YES (%) NO		<b>BIGEYE</b> SMALL (< 75 cm) LARGE (> 75 cm) YES (%) NO	
type 2 brail ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT											

BY-CATCH (ALL NON-TARGET SPECIES)					TARGET TUNA				
SPECIES CODE	FATE CODE	OBSERVER No. (mT)	VESSEL LOG No. (mT)	COMMENTS	A. OBSERVER estimates of total of each species caught (mT)		SKJ	YFT	BET
					Observer	FATE			
					Observer	a. (mT)			
					Vessel	FATE			
					Vessel	(mT)			
					Observer	FATE			
					Observer	b. (mT)			
					Vessel	FATE			
					Vessel	(mT)			
					Observer	FATE			
					Observer	c. (mT)			
					Vessel	FATE			
					Vessel	(mT)			
Total weight of bycatch: _____ mT					B. OBSERVER totals (mT) discards + RCC (a+b+c): _____				
Comments					Tuna kept onboard for later unload if not RWW	FATE			
						OBS (mT)			
						VES (mT)			
					FATE	RWW	RWW	RWW	
					Due to gear break / bycatch mitigation	OBS (mT)			
						VES (mT)			
						estimates			
<b>TAGS - How many Tags were recovered?</b>					<small>Record species and tag numbers. Fill tag recovery forms!</small>				

FATE CODES			
RWW	Retained - whole weight	DFR	Discarded trunk - fins retained (shark only)
RHG	Retained - headed and gutted (billfish only)	DTS	Discarded - too small (tuna only)
RGG	Retained - gilled and gutted (kept for sale)	DGD	Discarded - gear damage (tuna only)
RPT	Retained - partial (e.g. fillet, loin)	DVF	Discarded - vessel fully loaded
RCC	Retained - crew consumption (onboard)	DUS	Discarded - unwanted species
ROR	Retained - other reason (specify)	DSD	Discarded - shark damage
RFR	Retained trunk - fins retained (shark only)	DWD	Discarded - whale damage
DPA	Discarded SSI - alive	DPA	
DPD	(species of special interest) - dead	DPD	
DPU	- unknown condition	DPU	
DPQ	Discarded - poor quality		
DOR	Discarded - other reasons (specify)		
ESC	= Escaped		

(A PS-3 form **must** be filled out for the first and every set (recorded as *activity code 1* on PS-2) - whether monitored or not, even if a skunk set.) (For the very rare occasion that a set is not monitored the column for the vessel's estimate of catch must still be completed.) (N.B.: A PS-4 form is not required for skunk set.)

<b>OBSERVER NAME</b>	Print first name first and last name last. Eg.: "John Smith" not "Smith John". Print clearly !
<b>VESSEL NAME</b>	Full unabbreviated name. Eg.: a boat with name "Captain Paul Catchit" should not be abbreviated to Capt. P.Catchit.
<b>PAGE OF</b>	Number each PS-3 form from start until end of trip. Because one PS-3 is used for every set this is also the set No.
<b>OBSERVER TRIP ID No.</b>	This number is the same on all forms for a single observer trip.
<b>START of SET</b> Observer (PS-2)	The exact date and time that the observer recorded for this set on the PS-2. Record as year/month/day.
<b>DATE and TIME</b> Vessel (logsheet)	The exact date and time that the vessel has recorded for this set on their PS Log Sheet. Record as year/month/date.

<b>SET SEQUENCE</b>	<b>BEGIN SET (S KIFF OFF)</b>	Exact same time as recorded on the daily log (PS-2) and in the "Observer Start of Set Date and Time" section, above.
	<b>BEGIN PURSING (WINCH ON)</b>	The purse wire will be thrown to the vessel from the skiff, and it will then be attached to the winch. Record the time the winch is switched on.
	<b>END PURSING (RINGS UP)</b>	During the winching, a bunch of rings will come on board. Record the time when the last of the rings appears. This indicates the net has totally enclosed (pursed) the fish and they cannot escape.
	<b>BEGIN BRAILING</b>	Record the time the vessel starts the brailing process. This will have been recorded on the PS-4 form. If there was no brailing just record a dash
	<b>END BRAILING / SACK ONBOARD</b>	Record the time when the vessel finishes brailing. If there was no brailing record the time that the sack was lifted up on to the deck.
	<b>END SET (NEXT ACTIVITY START)</b>	Next activity START marks end of set (no later than 'skiff comes on board'). Record the activity change on PS-2.

<b>TOTAL CATCH and TOTAL TUNA CATCH</b>	
<b>Brail Capacity</b>	Find on the PS-1. Use to calculate total catch. <b>'Brail capacity' x 'Sum of all brails' = 'TOTAL CATCH'</b>
<b>Sum of all brails</b>	After calculating the total number of brails on the PS-4 form (for the same set) transfer your answer here.
Type 1 and Type 2 brails	... if a 2nd brail type is also used for this set samples, estimates of the brail capacity for both brail types must be made. Fill the 'brail capacity' and the 'sum of all brail' fields for both the 'type 1' and the 'type 2' brails. Add calculations of total catch from each brail type together to get a single "TOTAL CATCH" figure. (If there is no 'type 2' brail (which is normal) then simply record a dash in each of the 'type 2' fields and all other calculations will be based only on the 'type 1' brail information that is provided.)
<b>TOTAL CATCH less bycatch</b>	This is the combined weight of all the (target and bycatch species) fish brought onboard. Calculate the amount of bycatch (in mT) that is in the catch in the bycatch area below and transfer to this field
<b>TOTAL TUNA CATCH</b>	Subtract the total amount of bycatch from the TOTAL CATCH to get TOTAL TUNA CATCH. This includes all tuna caught whether or not it is later discarded. It does not include tuna that escaped <b>alive</b> from net.

<b>OBSERVER'S BREAKDOWN of TOTAL TUNA CAUGHT</b>	<b>YES or NO</b>	YES' or NO' <b>must</b> be circled to show if SKJ, small YFT, large YFT, small BET, large BET were even seen in the catch
<b>%</b>		Carefully eye-estimate the <b>percentage of the TOTAL TUNA</b> for each species (+ each size category for YFT and BET) N.B.: % of small (or large) YFT (or BET) is the % of <b>TOTAL TUNA</b> ! NOT % of that species of tuna.
<b>Number</b>		If there are not many large YFT or BET and good estimate of number can be made record number of large YFT (or BET) If a <b>good</b> estimate (counts) is not easy, dash the 'number' field. <b>Do not</b> make a rough estimate !

<b>SET CATCH DETAILS</b>	<b>BY-CATCH SPECIES CODE</b>	Record every species that lands on deck with the three letter FAO species code.
	<b>FATE CODE</b>	Use fate codes provided to say what happened to each species landed Use 1 line per species/fate group. Remember that a species may be split into groups each with a different fate code. Eg: RRU RWW 2 mT <b>REMEMBER</b> - use only one (the best and most informative) code for each line. RRU DTS 0.5 mT <b>NEW 2014:</b> Use the SSI FATE CODES FOR ALL SHARKS to indicate 'live' status. Use 'RFR' / 'DFR' in comments if finning observed).
	<b>OBSERVER (mT)</b>	Calculate the amount of each species caught, in each fate code category, using an appropriate assessment technique. Use mT. For instance if 300 kg of Mahi mahi and 40 kg of wahoo were caught - record 0.3 mt DOL /0.04 mt WAH
	<b>Number</b>	Only record a number if an accurate count is possible. Large amounts are recorded in "mT". If possible record both.
	<b>VESSEL LOG (mT)</b>	Copy the figures recorded by the ship's officers on the Vessel Logsheet, for this set.
	<b>Number</b>	Place a dash in the column if they have not recorded the species.
<b>Total weight of bycatch</b>	Calculate from the fields above for observer (important for use in 'Total Tuna' calculation) and vessel bycatch estimates	

<b>TAGS</b>	<b>TARGET TUNA</b>	
	<b>A. OBSERVER estimates of total caught</b>	Calculate the combined large and small <b>% x Total tuna catch</b> for each species (SKJ, YFT and BET)
	<b>FATE</b>	Record fate of discarded tuna or tuna retained for crew consumption (RCC), using fate codes listed at bottom of form
	<b>OBS (mT)</b>	Give a careful approximation (eye-estimate) of the total amount of catch for the relevant fate /species code combination. Record the amounts in metric tonnes.
	<b>VES (mT)</b>	Copy the weight, as recorded for each species in the vessel's logsheet. If nothing is recorded in the logsheet place a dash in the data field. If "0" is recorded on the logsheet record "0" here. <b>Record in metric tonnes.</b> Eg.: If amount on logsheet is in short tons this <b>MUST</b> be converted to metric tonnes.
	<b>B. OBSERVER totals (mT) discards + RCC</b>	For each species add together the mT amounts that are recorded in the rows 'a.', 'b.' and 'c' to get the total of all the discarded and the retained for crew consumption (RCC) combined for that species.
	<b>Tuna kept onboard for later unload</b>	Usually tuna are retained whole weight (RWW). If so then RWW can be calculated as (A. - B.) for each species. If tuna is otherwise retained onboard for later unload (fate = R??) then A. - B. = the combined total of RWW + R??
	<b>Due to gear break / bycatch mitigation</b>	ESC Best observer estimate of mT of any live tuna that escaped during set. Refer to Captain for any tuna seen escaping via sonar. Include any live tuna escaped from gear breakage or because vessel tries to release important bycatch. N.B. This does not include dead tuna that are released from the net after a breakdown during or after net sac-up = discards.
	<b>How many tags were recovered? species and tag numbers</b>	Note the number of tags found from in this set. Look out for tags on tuna, billfish, sharks, turtles, birds, etc. Record <b>tag number</b> and <b>species</b> . Note tag colour, tagging organisation and any unusual features about condition. Fill these and other tag details into the tag recovery form (and GEN-2 form if necessary).



# SPC/FFA REGIONAL PURSE SEINE OBSERVER SET DETAILS

**FORM PS - 3**

REV. MAR. 2014

OBSERVER NAME	VESSEL NAME	PAGE _____ OF _____ (SET No.)
OBSERVER TRIP I.D. NUMBER	START OF SET DATE AND TIME OBSERVER: YY MM DD hh mm (see PS-2)	START OF SET DATE AND TIME VESSEL LOG: YY MM DD hh mm

SET SEQUENCE TIMES						
EVENT:	START OF SET (SKIFF OFF)	BEGIN PURSING (WINCH ON)	END PURSING (RINGS UP)	BEGIN BRAILING	END OF BRAILING / SACK ONBOARD	END OF SET (NEXT ACTIVITY START)
TIME:						

SET CATCH DETAILS											
OBSERVER'S BREAKDOWN OF TOTAL TUNA CAUGHT <small>- circle YES or NO for each species</small>										N.B.: these calculations include all the tuna in this catch, whether retained or discarded	
brail capacity ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT <small>Type 1 brail (see PS-1 form)</small>		sum of all brails ( <input type="text"/> mT x <input type="text"/> ) + <input type="text"/> mT <small>(see PS-4 form)</small>		Total catch less bycatch (see below) = Total tuna catch <input type="text"/> mT		<b>SKIP-JACK</b> YES (%) NO		<b>YELLOWFIN</b> SMALL (< 75 cm) LARGE (> 75 cm) YES (%) NO		<b>BIGEYE</b> SMALL (< 75 cm) LARGE (> 75 cm) YES (%) NO	

BY-CATCH (ALL NON-TARGET SPECIES)					TARGET TUNA				
SPECIES CODE	FATE CODE	OBSERVER No. (mT)	VESSEL LOG No. (mT)	COMMENTS	A. OBSERVER estimates of total of each species caught (mT)		SKJ	YFT	BET
					Observer	FATE			
					Observer	a. (mT)			
					Vessel	FATE			
					Vessel	(mT)			
					Observer	FATE			
					Observer	b. (mT)			
					Vessel	FATE			
					Vessel	(mT)			
					Observer	FATE			
					Observer	c. (mT)			
					Vessel	FATE			
					Vessel	(mT)			
Total weight of bycatch: _____ mT					B. OBSERVER totals (mT) discards + RCC (a+b+c): _____				
Comments					Tuna kept onboard for later unload if not RWW	FATE			
						OBS (mT)			
						VES (mT)			
					FATE	RWW	RWW	RWW	
					Tuna kept onboard for later unload if not RWW	OBS (mT)			
						VES (mT)			
						Due to gear break / bycatch mitigation	ESC	ESC	ESC
					estimates	OBS (mT)			
						VES (mT)			
<b>TAGS - How many Tags were recovered?</b>					<small>Record species and tag numbers. Fill tag recovery forms!</small>				

FATE CODES			
RWW	Retained - whole weight	DFR	Discarded trunk - fins retained (shark only)
RHG	Retained - headed and gutted (billfish only)	DTS	Discarded - too small (tuna only)
RGG	Retained - gilled and gutted (kept for sale)	DGD	Discarded - gear damage (tuna only)
RPT	Retained - partial (e.g. fillet, loin)	DVF	Discarded - vessel fully loaded
RCC	Retained - crew consumption (onboard)	DUS	Discarded - unwanted species
ROR	Retained - other reason (specify)	DSD	Discarded - shark damage
RFR	Retained trunk - fins retained (shark only)	DWD	Discarded - whale damage
DPA	Discarded SSI - alive	DPA	
DPD	(species of special interest) - dead	DPD	
DPU	- unknown condition	DPU	
DPQ	Discarded - poor quality		
DOR	Discarded - other reasons (specify)		
ESC	= Escaped		

(A PS-3 form **must** be filled out for the first and every set (recorded as *activity code 1* on PS-2) - whether monitored or not, even if a skunk set.) (For the very rare occasion that a set is not monitored the column for the vessel's estimate of catch must still be completed.) (N.B.: A PS-4 form is not required for skunk set.)

<b>OBSERVER NAME</b>	Print first name first and last name last. Eg.: "John Smith" not "Smith John". Print clearly !
<b>VESSEL NAME</b>	Full unabbreviated name. Eg.: a boat with name "Captain Paul Catchit" should not be abbreviated to Capt. P.Catchit.
<b>PAGE OF</b>	Number each PS-3 form from start until end of trip. Because one PS-3 is used for every set this is also the set No.
<b>OBSERVER TRIP ID No.</b>	This number is the same on all forms for a single observer trip.
<b>START of SET</b> Observer (PS-2)	The exact date and time that the observer recorded for this set on the PS-2. Record as year/month/day.
<b>DATE and TIME</b> Vessel (logsheet)	The exact date and time that the vessel has recorded for this set on their PS Log Sheet. Record as year/month/date.

<b>SET SEQUENCE</b>	<b>BEGIN SET (S KIFF OFF)</b>	Exact same time as recorded on the daily log (PS-2) and in the "Observer Start of Set Date and Time" section, above.
	<b>BEGIN PURSING (WINCH ON)</b>	The purse wire will be thrown to the vessel from the skiff, and it will then be attached to the winch. Record the time the winch is switched on.
	<b>END PURSING (RINGS UP)</b>	During the winching, a bunch of rings will come on board. Record the time when the last of the rings appears. This indicates the net has totally enclosed (pursed) the fish and they cannot escape.
	<b>BEGIN BRAILING</b>	Record the time the vessel starts the brailing process. This will have been recorded on the PS-4 form. If there was no brailing just record a dash
	<b>END BRAILING / SACK ONBOARD</b>	Record the time when the vessel finishes brailing. If there was no brailing record the time that the sack was lifted up on to the deck.
	<b>END SET (NEXT ACTIVITY START)</b>	Next activity START marks end of set (no later than 'skiff comes on board'). Record the activity change on PS-2.

<b>TOTAL CATCH and TOTAL TUNA CATCH</b>	
<b>Brail Capacity</b>	Find on the PS-1. Use to calculate total catch. <b>'Brail capacity' x 'Sum of all brails' = 'TOTAL CATCH'</b>
<b>Sum of all brails</b>	After calculating the total number of brails on the PS-4 form (for the same set) transfer your answer here.
Type 1 and	... if a 2nd brail type is also used for this set samples, estimates of the brail capacity for both brail types must be made. Fill the 'brail capacity' and the 'sum of all brail' fields for both the 'type 1' and the 'type 2' brails.
Type 2 brails	Add calculations of total catch from each brail type together to get a single "TOTAL CATCH" figure. (If there is no 'type 2' brail (which is normal) then simply record a dash in each of the 'type 2' fields and all other calculations will be based only on the 'type 1' brail information that is provided.)
<b>TOTAL CATCH</b>	This is the combined weight of all the (target and bycatch species) fish brought onboard.
<b>less bycatch</b>	Calculate the amount of bycatch (in mT) that is in the catch in the bycatch area below and transfer to this field
<b>TOTAL TUNA CATCH</b>	Subtract the total amount of bycatch from the TOTAL CATCH to get TOTAL TUNA CATCH. This includes all tuna caught whether or not it is later discarded. It does not include tuna that escaped <b>alive</b> from net.

<b>OBSERVER'S BREAKDOWN of TOTAL TUNA CAUGHT</b>	<b>YES or NO</b>	YES' or NO' <b>must</b> be circled to show if SKJ, small YFT, large YFT, small BET, large BET were even seen in the catch
<b>%</b>		Carefully eye-estimate the <b>percentage of the TOTAL TUNA</b> for each species (+ each size category for YFT and BET) N.B.: % of small (or large) YFT (or BET) is the % of <b>TOTAL TUNA</b> ! NOT % of that species of tuna.
<b>Number</b>		If there are not many large YFT or BET and good estimate of number can be made record number of large YFT (or BET) If a <b>good</b> estimate (counts) is not easy, dash the 'number' field. <b>Do not</b> make a rough estimate !

<b>SET CATCH DETAILS</b>	<b>BY-CATCH SPECIES CODE</b>	Record every species that lands on deck with the three letter FAO species code.
	<b>FATE CODE</b>	Use fate codes provided to say what happened to each species landed Use 1 line per species/fate group. Remember that a species may be split into groups each with a different fate code. Eg: RRU RWW 2 mT <b>REMEMBER</b> - use only one (the best and most informative) code for each line. RRU DTS 0.5 mT <b>NEW 2014:</b> Use the SSI FATE CODES FOR ALL SHARKS to indicate 'live' status. Use 'RFR' / 'DFR' in comments if finning observed).
	<b>OBSERVER</b>	
	<b>(mT)</b>	Calculate the amount of each species caught, in each fate code category, using an appropriate assessment technique. Use mT. For instance if 300 kg of Mahi mahi and 40 kg of wahoo were caught - record 0.3 mt DOL /0.04 mt WAH
	<b>Number</b>	Only record a number if an accurate count is possible. Large amounts are recorded in "mT". If possible record both.
	<b>VESSEL LOG</b>	
<b>(mT)</b>	Copy the figures recorded by the ship's officers on the Vessel Logsheet, for this set.	
<b>Number</b>	Place a dash in the column if they have not recorded the species.	
<b>Total weight of bycatch</b>	Calculate from the fields above for observer (important for use in 'Total Tuna' calculation) and vessel bycatch estimates	

<b>TAGS</b>	<b>TARGET TUNA</b>	
	<b>A. OBSERVER estimates of total caught</b>	Calculate the combined large and small <b>% x Total tuna catch</b> for each species (SKJ, YFT and BET)
	<b>FATE</b>	Record fate of discarded tuna or tuna retained for crew consumption (RCC), using fate codes listed at bottom of form
	<b>OBS (mT)</b>	Give a careful approximation (eye-estimate) of the total amount of catch for the relevant fate /species code combination. Record the amounts in metric tonnes.
	<b>VES (mT)</b>	Copy the weight, as recorded for each species in the vessel's logsheet. If nothing is recorded in the logsheet place a dash in the data field. If "0" is recorded on the logsheet record "0" here. <b>Record in metric tonnes.</b> Eg.: If amount on logsheet is in short tons this <b>MUST</b> be converted to metric tonnes.
	<b>B. OBSERVER totals (mT) discards + RCC</b>	For each species add together the mT amounts that are recorded in the rows 'a.', 'b.' and 'c' to get the total of all the discarded and the retained for crew consumption (RCC) combined for that species.
	<b>Tuna kept onboard for later unload</b>	Usually tuna are retained whole weight (RWW). If so then RWW can be calculated as (A. - B.) for each species. If tuna is otherwise retained onboard for later unload (fate = R??) then A. - B. = the combined total of RWW + R??
	<b>Due to gear break / bycatch mitigation</b>	ESC Best observer estimate of mT of any live tuna that escaped during set. Refer to Captain for any tuna seen escaping via sonar. Include any live tuna escaped from gear breakage or because vessel tries to release important bycatch. N.B. This does not include dead tuna that are released from the net after a breakdown during or after net sac-up = discards.
	<b>How many tags were recovered? species and tag numbers</b>	Note the number of tags found from in this set. Look out for tags on tuna, billfish, sharks, turtles, birds, etc. Record <b>tag number</b> and <b>species</b> . Note tag colour, tagging organisation and any unusual features about condition. Fill these and other tag details into the tag recovery form (and GEN-2 form if necessary).

# SPC/FFA REGIONAL PURSE SEINE OBSERVER SET DETAILS

**FORM PS - 3**

REV. MAR. 2014

OBSERVER NAME	VESSEL NAME	PAGE _____ OF _____ (SET No.)
OBSERVER TRIP I.D. NUMBER	START OF SET DATE AND TIME OBSERVER: YY MM DD hh mm (see PS-2)	START OF SET DATE AND TIME VESSEL LOG: YY MM DD hh mm

SET SEQUENCE TIMES						
EVENT:	START OF SET (SKIFF OFF)	BEGIN PURSING (WINCH ON)	END PURSING (RINGS UP)	BEGIN BRAILING	END OF BRAILING / SACK ONBOARD	END OF SET (NEXT ACTIVITY START)
TIME:						

SET CATCH DETAILS											
OBSERVER'S BREAKDOWN OF TOTAL TUNA CAUGHT <small>- circle YES or NO for each species</small>										N.B.: these calculations include all the tuna in this catch, whether retained or discarded	
brail capacity ( <input type="text"/> mT ) <small>Type 1 brail (see PS-1 form)</small>		sum of all brails x ( <input type="text"/> ) <small>(see PS-4 form)</small>		= <input type="text"/> mT less bycatch (see below)		= <input type="text"/> mT = Total tuna catch					
SKIP-JACK		YELLOWFIN				BIGEYE					
		SMALL (< 75 cm)		LARGE (> 75 cm)		SMALL (< 75 cm)		LARGE (> 75 cm)			
YES	(%)	YES	(%)	YES	(%)	NUMBER	YES	(%)	YES	(%)	NUMBER
NO		NO		NO			NO		NO		

BY-CATCH (ALL NON-TARGET SPECIES)						TARGET TUNA					
SPECIES CODE	FATE CODE	OBSERVER No. (mT)	VESSEL LOG No. (mT)	COMMENTS		SKJ	YFT	BET			
A. OBSERVER estimates of total of each species caught (mT)						Observer	FATE				
						Observer	a. (mT)				
						Vessel	FATE				
						Vessel	(mT)				
						Observer	FATE				
						Observer	b. (mT)				
						Vessel	FATE				
						Vessel	(mT)				
						Observer	FATE				
						Observer	c. (mT)				
						Vessel	FATE				
						Vessel	(mT)				
Total weight of bycatch: _____ mT						B. OBSERVER totals (mT) discards + RCC (a+b+c):					
Comments						Tuna kept onboard for later unload if not RWW	FATE				
							OBS (mT)				
						Tuna kept onboard for later unload if not RWW	VES (mT)				
							FATE	RWW	RWW	RWW	
						Tuna kept onboard for later unload if not RWW	OBS (mT)				
							VES (mT)				
						Due to gear break / bycatch mitigation	ESC	ESC	ESC		
							OBS (mT)				
TAGS - How many Tags were recovered?						estimates	VES (mT)				
							Record species and tag numbers. Fill tag recovery forms!				

FATE CODES			
RWW	Retained - whole weight	DFR	Discarded trunk - fins retained (shark only)
RHG	Retained - headed and gutted (billfish only)	DTS	Discarded - too small (tuna only)
RGG	Retained - gilled and gutted (kept for sale)	DGD	Discarded - gear damage (tuna only)
RPT	Retained - partial (e.g. fillet, loin)	DVF	Discarded - vessel fully loaded
RCC	Retained - crew consumption (onboard)	DUS	Discarded - unwanted species
ROR	Retained - other reason (specify)	DSD	Discarded - shark damage
RFR	Retained trunk - fins retained (shark only)	DWD	Discarded - whale damage
DPA	Discarded SSI - alive	DPA	
DPD	(species of special interest) - dead	DPD	
DPU	- unknown condition	DPU	
DPQ	Discarded - poor quality		
DOR	Discarded - other reasons (specify)		
ESC	= Escaped		

(A PS-3 form **must** be filled out for the first and every set (recorded as *activity code 1* on PS-2) - whether monitored or not, even if a skunk set.) (For the very rare occasion that a set is not monitored the column for the vessel's estimate of catch must still be completed.) (N.B.: A PS-4 form is not required for skunk set.)

<b>OBSERVER NAME</b>	Print first name first and last name last. Eg.: "John Smith" not "Smith John". Print clearly !
<b>VESSEL NAME</b>	Full unabbreviated name. Eg.: a boat with name "Captain Paul Catchit" should not be abbreviated to Capt. P.Catchit.
<b>PAGE OF</b>	Number each PS-3 form from start until end of trip. Because one PS-3 is used for every set this is also the set No.
<b>OBSERVER TRIP ID No.</b>	This number is the same on all forms for a single observer trip.
<b>START of SET</b> Observer (PS-2)	The exact date and time that the observer recorded for this set on the PS-2. Record as year/month/day.
<b>DATE and TIME</b> Vessel (logsheet)	The exact date and time that the vessel has recorded for this set on their PS Log Sheet. Record as year/month/date.

<b>SET SEQUENCE</b>	<b>BEGIN SET (S KIFF OFF)</b>	Exact same time as recorded on the daily log (PS-2) and in the "Observer Start of Set Date and Time" section, above.
	<b>BEGIN PURSING (WINCH ON)</b>	The purse wire will be thrown to the vessel from the skiff, and it will then be attached to the winch. Record the time the winch is switched on.
	<b>END PURSING (RINGS UP)</b>	During the winching, a bunch of rings will come on board. Record the time when the last of the rings appears. This indicates the net has totally enclosed (pursed) the fish and they cannot escape.
	<b>BEGIN BRAILING</b>	Record the time the vessel starts the brailing process. This will have been recorded on the PS-4 form. If there was no brailing just record a dash
	<b>END BRAILING / SACK ONBOARD</b>	Record the time when the vessel finishes brailing. If there was no brailing record the time that the sack was lifted up on to the deck.
	<b>END SET (NEXT ACTIVITY START)</b>	Next activity START marks end of set (no later than 'skiff comes on board'). Record the activity change on PS-2.

<b>TOTAL CATCH and TOTAL TUNA CATCH</b>	
<b>Brail Capacity</b>	Find on the PS-1. Use to calculate total catch. <b>'Brail capacity' x 'Sum of all brails' = 'TOTAL CATCH'</b>
<b>Sum of all brails</b>	After calculating the total number of brails on the PS-4 form (for the same set) transfer your answer here.
Type 1 and	... if a 2nd brail type is also used for this set samples, estimates of the brail capacity for both brail types must be made. Fill the 'brail capacity' and the 'sum of all brail' fields for both the 'type 1' and the 'type 2' brails.
Type 2 brails	Add calculations of total catch from each brail type together to get a single "TOTAL CATCH" figure. (If there is no 'type 2' brail (which is normal) then simply record a dash in each of the 'type 2' fields and all other calculations will be based only on the 'type 1' brail information that is provided.)
<b>TOTAL CATCH</b>	This is the combined weight of all the (target and bycatch species) fish brought onboard.
<b>less bycatch</b>	Calculate the amount of bycatch (in mT) that is in the catch in the bycatch area below and transfer to this field
<b>TOTAL TUNA CATCH</b>	Subtract the total amount of bycatch from the TOTAL CATCH to get TOTAL TUNA CATCH. This includes all tuna caught whether or not it is later discarded. It does not include tuna that escaped <b>alive</b> from net.

<b>OBSERVER'S BREAKDOWN of TOTAL TUNA CAUGHT</b>	<b>YES or NO</b>	YES' or NO' <b>must</b> be circled to show if SKJ, small YFT, large YFT, small BET, large BET were even seen in the catch
<b>%</b>		Carefully eye-estimate the <b>percentage of the TOTAL TUNA</b> for each species (+ each size category for YFT and BET) N.B.: % of small (or large) YFT (or BET) is the % of <b>TOTAL TUNA</b> ! NOT % of that species of tuna.
<b>Number</b>		If there are not many large YFT or BET and good estimate of number can be made record number of large YFT (or BET) If a <b>good</b> estimate (counts) is not easy, dash the 'number' field. <b>Do not</b> make a rough estimate !

<b>SET CATCH DETAILS</b>	<b>BY-CATCH SPECIES CODE</b>	Record every species that lands on deck with the three letter FAO species code.
	<b>FATE CODE</b>	Use fate codes provided to say what happened to each species landed Use 1 line per species/fate group. Remember that a species may be split into groups each with a different fate code. Eg: RRU RWW 2 mT <b>REMEMBER</b> - use only one (the best and most informative) code for each line. RRU DTS 0.5 mT <b>NEW 2014:</b> Use the SSI FATE CODES FOR ALL SHARKS to indicate 'live' status. Use 'RFR' / 'DFR' in comments if finning observed).
	<b>OBSERVER</b>	
	<b>(mT)</b>	Calculate the amount of each species caught, in each fate code category, using an appropriate assessment technique. Use mT. For instance if 300 kg of Mahi mahi and 40 kg of wahoo were caught - record 0.3 mt DOL /0.04 mt WAH
	<b>Number</b>	Only record a number if an accurate count is possible. Large amounts are recorded in "mT". If possible record both.
	<b>VESSEL LOG</b>	
<b>(mT)</b>	Copy the figures recorded by the ship's officers on the Vessel Logsheet, for this set.	
<b>Number</b>	Place a dash in the column if they have not recorded the species.	
<b>Total weight of bycatch</b>	Calculate from the fields above for observer (important for use in 'Total Tuna' calculation) and vessel bycatch estimates	

<b>TAGS</b>	<b>TARGET TUNA</b>	
	<b>A. OBSERVER estimates of total caught</b>	Calculate the combined large and small <b>% x Total tuna catch</b> for each species (SKJ, YFT and BET)
	<b>FATE</b>	Record fate of discarded tuna or tuna retained for crew consumption (RCC), using fate codes listed at bottom of form
	<b>OBS (mT)</b>	Give a careful approximation (eye-estimate) of the total amount of catch for the relevant fate /species code combination. Record the amounts in metric tonnes.
	<b>VES (mT)</b>	Copy the weight, as recorded for each species in the vessel's logsheet. If nothing is recorded in the logsheet place a dash in the data field. If "0" is recorded on the logsheet record "0" here. <b>Record in metric tonnes.</b> Eg.: If amount on logsheet is in short tons this <b>MUST</b> be converted to metric tonnes.
	<b>B. OBSERVER totals (mT) discards + RCC</b>	For each species add together the mT amounts that are recorded in the rows 'a.', 'b.' and 'c' to get the total of all the discarded and the retained for crew consumption (RCC) combined for that species.
	<b>Tuna kept onboard for later unload</b>	Usually tuna are retained whole weight (RWW). If so then RWW can be calculated as (A. - B.) for each species. If tuna is otherwise retained onboard for later unload (fate = R??) then A. - B. = the combined total of RWW + R??
	<b>Due to gear break / bycatch mitigation</b>	ESC Best observer estimate of mT of any live tuna that escaped during set. Refer to Captain for any tuna seen escaping via sonar. Include any live tuna escaped from gear breakage or because vessel tries to release important bycatch. N.B. This does not include dead tuna that are released from the net after a breakdown during or after net sac-up = discards.
	<b>How many tags were recovered? species and tag numbers</b>	Note the number of tags found from in this set. Look out for tags on tuna, billfish, sharks, turtles, birds, etc. Record <b>tag number</b> and <b>species</b> . Note tag colour, tagging organisation and any unusual features about condition. Fill these and other tag details into the tag recovery form (and GEN-2 form if necessary).

**SPC/FFA REGIONAL PURSE SEINE OBSERVER  
SET DETAILS**

**FORM PS - 3**

REV. MAR. 2014

OBSERVER NAME	VESSEL NAME	PAGE	OF
		(SET No.)	
OBSERVER TRIP I.D. NUMBER	START OF SET DATE AND TIME OBSERVER: (see PS-2)	START OF SET DATE AND TIME VESSEL LOG:	
	YY MM DD hh mm	YY MM DD hh mm	

SET SEQUENCE TIMES						
EVENT:	START OF SET (SKIFF OFF)	BEGIN PURSING (WINCH ON)	END PURSING (RINGS UP)	BEGIN BRAILING	END OF BRAILING / SACK ONBOARD	END OF SET (NEXT ACTIVITY START)
TIME:						

SET CATCH DETAILS													
OBSERVER'S BREAKDOWN OF TOTAL TUNA CAUGHT										N.B.: these calculations include all the tuna in this catch, whether retained or discarded			
brail capacity		sum of all brails		Total catch		- circle YES or NO for each species							
$\left( \begin{matrix} \text{mT} \\ \text{Type 1 brail} \\ \text{(see PS-1 form)} \end{matrix} \right) \times \left( \begin{matrix} \text{mT} \\ \text{see PS-4 form} \end{matrix} \right) = \begin{matrix} \text{mT} \\ \text{less bycatch (see below)} \end{matrix}$		$\left( \begin{matrix} \text{mT} \\ \text{type 2 brail} \end{matrix} \right) + \left( \begin{matrix} \text{mT} \\ \text{see PS-4 form} \end{matrix} \right) = \begin{matrix} \text{mT} \\ \text{Total tuna catch} \end{matrix}$		$\Rightarrow$		<b>SKIP-JACK</b>		<b>YELLOWFIN</b>				<b>BIGEYE</b>	
						<b>SMALL (&lt; 75 cm)</b>		<b>LARGE (&gt; 75 cm)</b>		<b>SMALL (&lt; 75 cm)</b>		<b>LARGE (&gt; 75 cm)</b>	
						YES (%)	NO (%)	YES (%)	NUMBER	YES (%)	NUMBER	YES (%)	NUMBER
						NO		NO		NO		NO	

BY-CATCH (ALL NON-TARGET SPECIES)						TARGET TUNA					
SPECIES CODE	FATE CODE	OBSERVER No. (mT)	VESSEL LOG No. (mT)	COMMENTS	A. OBSERVER estimates of total of each species caught (mT)	SKJ	YFT	BET			
					Observer	FATE					
					Observer	a. (mT)					
					Vessel	FATE					
					Vessel	(mT)					
					Observer	FATE					
					Observer	b. (mT)					
					Vessel	FATE					
					Vessel	(mT)					
					Observer	FATE					
					Observer	c. (mT)					
					Vessel	FATE					
					Vessel	(mT)					
Total weight of bycatch: _____ mT					B. OBSERVER totals (mT) discards + RCC (a+b+c): _____						
Comments						Tuna kept onboard for later unload if not RWW	FATE				
							OBS (mT)				
							VES (mT)				
						FATE	RWW	RWW	RWW		
						OBS (mT)					
						VES (mT)					
						Due to gear break / bycatch mitigation			ESC	ESC	ESC
						estimates	OBS (mT)				
							VES (mT)				
<b>TAGS - How many Tags were recovered?</b>			Record species and tag numbers. Fill tag recovery forms!								

FATE CODES			
RWW	Retained - whole weight	DFR	Discarded trunk - fins retained (shark only)
RHG	Retained - headed and gutted (billfish only)	DTS	Discarded - too small (tuna only)
RGG	Retained - gilled and gutted (kept for sale)	DGD	Discarded - gear damage (tuna only)
RPT	Retained - partial (e.g. fillet, loin)	DVF	Discarded - vessel fully loaded
RCC	Retained - crew consumption (onboard)	DUS	Discarded - unwanted species
ROR	Retained - other reason (specify)	DSD	Discarded - shark damage
RFR	Retained trunk - fins retained (shark only)	DWD	Discarded - whale damage
DPA	Discarded SSI - alive	DPA	
DPD	(species of special interest) - dead	DPD	
DPU	- unknown condition	DPU	
DPQ	Discarded - poor quality		
DOR	Discarded - other reasons (specify)		
ESC	= Escaped		

(A PS-3 form **must** be filled out for the first and every set (recorded as *activity code 1* on PS-2) - whether monitored or not, even if a skunk set.) (For the very rare occasion that a set is not monitored the column for the vessel's estimate of catch must still be completed.) (N.B.: A PS-4 form is not required for skunk set.)

<b>OBSERVER NAME</b>	Print first name first and last name last. Eg.: "John Smith" not "Smith John". Print clearly !
<b>VESSEL NAME</b>	Full unabbreviated name. Eg.: a boat with name "Captain Paul Catchit" should not be abbreviated to Capt. P.Catchit.
<b>PAGE OF</b>	Number each PS-3 form from start until end of trip. Because one PS-3 is used for every set this is also the set No.
<b>OBSERVER TRIP ID No.</b>	This number is the same on all forms for a single observer trip.
<b>START of SET</b> Observer (PS-2)	The exact date and time that the observer recorded for this set on the PS-2. Record as year/month/day.
<b>DATE and TIME</b> Vessel (logsheet)	The exact date and time that the vessel has recorded for this set on their PS Log Sheet. Record as year/month/date.

<b>SET SEQUENCE</b>	<b>BEGIN SET (S KIFF OFF)</b>	Exact same time as recorded on the daily log (PS-2) and in the "Observer Start of Set Date and Time" section, above.
	<b>BEGIN PURSING (WINCH ON)</b>	The purse wire will be thrown to the vessel from the skiff, and it will then be attached to the winch. Record the time the winch is switched on.
	<b>END PURSING (RINGS UP)</b>	During the winching, a bunch of rings will come on board. Record the time when the last of the rings appears. This indicates the net has totally enclosed (pursed) the fish and they cannot escape.
	<b>BEGIN BRAILING</b>	Record the time the vessel starts the brailing process. This will have been recorded on the PS-4 form. If there was no brailing just record a dash
	<b>END BRAILING / SACK ONBOARD</b>	Record the time when the vessel finishes brailing. If there was no brailing record the time that the sack was lifted up on to the deck.
	<b>END SET (NEXT ACTIVITY START)</b>	Next activity START marks end of set (no later than 'skiff comes on board'). Record the activity change on PS-2.

<b>TOTAL CATCH and TOTAL TUNA CATCH</b>	
<b>Brail Capacity</b>	Find on the PS-1. Use to calculate total catch. <b>'Brail capacity' x 'Sum of all brails' = 'TOTAL CATCH'</b>
<b>Sum of all brails</b>	After calculating the total number of brails on the PS-4 form (for the same set) transfer your answer here.
Type 1 and Type 2 brails	... if a 2nd brail type is also used for this set samples, estimates of the brail capacity for both brail types must be made. Fill the 'brail capacity' and the 'sum of all brail' fields for both the 'type 1' and the 'type 2' brails. Add calculations of total catch from each brail type together to get a single "TOTAL CATCH" figure. (If there is no 'type 2' brail (which is normal) then simply record a dash in each of the 'type 2' fields and all other calculations will be based only on the 'type 1' brail information that is provided.)
<b>TOTAL CATCH less bycatch</b>	This is the combined weight of all the (target and bycatch species) fish brought onboard. Calculate the amount of bycatch (in mT) that is in the catch in the bycatch area below and transfer to this field
<b>TOTAL TUNA CATCH</b>	Subtract the total amount of bycatch from the TOTAL CATCH to get TOTAL TUNA CATCH. This includes all tuna caught whether or not it is later discarded. It does not include tuna that escaped <b>alive</b> from net.

<b>OBSERVER'S BREAKDOWN of TOTAL TUNA CAUGHT</b>	<b>YES or NO</b>	YES' or NO' <b>must</b> be circled to show if SKJ, small YFT, large YFT, small BET, large BET were even seen in the catch
<b>%</b>		Carefully eye-estimate the <b>percentage of the TOTAL TUNA</b> for each species (+ each size category for YFT and BET) N.B.: % of small (or large) YFT (or BET) is the % of <b>TOTAL TUNA</b> ! NOT % of that species of tuna.
<b>Number</b>		If there are not many large YFT or BET and good estimate of number can be made record number of large YFT (or BET) If a <b>good</b> estimate (counts) is not easy, dash the 'number' field. <b>Do not</b> make a rough estimate !

<b>SET CATCH DETAILS</b>	<b>BY-CATCH SPECIES CODE</b>	Record every species that lands on deck with the three letter FAO species code.
	<b>FATE CODE</b>	Use fate codes provided to say what happened to each species landed Use 1 line per species/fate group. Remember that a species may be split into groups each with a different fate code. Eg: RRU RWW 2 mT <b>REMEMBER</b> - use only one (the best and most informative) code for each line. RRU DTS 0.5 mT <b>NEW 2014:</b> Use the SSI FATE CODES FOR ALL SHARKS to indicate 'live' status. Use 'RFR' / 'DFR' in comments if finning observed).
	<b>OBSERVER (mT)</b>	Calculate the amount of each species caught, in each fate code category, using an appropriate assessment technique. Use mT. For instance if 300 kg of Mahi mahi and 40 kg of wahoo were caught - record 0.3 mt DOL /0.04 mt WAH
	<b>Number</b>	Only record a number if an accurate count is possible. Large amounts are recorded in "mT". If possible record both.
	<b>VESSEL LOG (mT)</b>	Copy the figures recorded by the ship's officers on the Vessel Logsheet, for this set.
	<b>Number</b>	Place a dash in the column if they have not recorded the species.
<b>Total weight of bycatch</b>	Calculate from the fields above for observer (important for use in 'Total Tuna' calculation) and vessel bycatch estimates	

<b>TAGS</b>	<b>TARGET TUNA</b>	
	<b>A. OBSERVER estimates of total caught</b>	Calculate the combined large and small % x <b>Total tuna catch</b> for each species (SKJ, YFT and BET)
	<b>FATE</b>	Record fate of discarded tuna or tuna retained for crew consumption (RCC), using fate codes listed at bottom of form
	<b>OBS (mT)</b>	Give a careful approximation (eye-estimate) of the total amount of catch for the relevant fate /species code combination. Record the amounts in metric tonnes.
	<b>VES (mT)</b>	Copy the weight, as recorded for each species in the vessel's logsheet. If nothing is recorded in the logsheet place a dash in the data field. If "0" is recorded on the logsheet record "0" here. <b>Record in metric tonnes.</b> Eg.: If amount on logsheet is in short tons this <b>MUST</b> be converted to metric tonnes.
	<b>B. OBSERVER totals (mT) discards + RCC</b>	For each species add together the mT amounts that are recorded in the rows 'a.', 'b.' and 'c' to get the total of all the discarded and the retained for crew consumption (RCC) combined for that species.
	<b>Tuna kept onboard for later unload</b>	Usually tuna are retained whole weight (RWW). If so then RWW can be calculated as (A. - B.) for each species. If tuna is otherwise retained onboard for later unload (fate = R??) then A. - B. = the combined total of RWW + R??
	<b>Due to gear break / bycatch mitigation</b>	ESC Best observer estimate of mT of any live tuna that escaped during set. Refer to Captain for any tuna seen escaping via sonar. Include any live tuna escaped from gear breakage or because vessel tries to release important bycatch. N.B. This does not include dead tuna that are released from the net after a breakdown during or after net sac-up = discards.
	<b>How many tags were recovered? species and tag numbers</b>	Note the number of tags found from in this set. Look out for tags on tuna, billfish, sharks, turtles, birds, etc. Record <b>tag number</b> and <b>species</b> . Note tag colour, tagging organisation and any unusual features about condition. Fill these and other tag details into the tag recovery form (and GEN-2 form if necessary).



# SPC/FFA REGIONAL PURSE SEINE OBSERVER SET DETAILS

**FORM PS - 3**

REV. MAR. 2014

OBSERVER NAME		VESSEL NAME				PAGE		OF						
								(SET No.)						
OBSERVER TRIP I.D. NUMBER		START OF SET DATE AND TIME				START OF SET DATE AND TIME								
		OBSERVER: (see PS-2)		YY	MM	DD	hh	mm	VESSEL LOG:	YY	MM	DD	hh	mm

SET SEQUENCE TIMES						
EVENT:	START OF SET (SKIFF OFF)	BEGIN PURSING (WINCH ON)	END PURSING (RINGS UP)	BEGIN BRAILING	END OF BRAILING / SACK ONBOARD	END OF SET (NEXT ACTIVITY START)
TIME:						

SET CATCH DETAILS																	
<b>brail capacity</b> ( <input type="text"/> mT ) x ( <input type="text"/> ) = <input type="text"/> mT <small>Type 1 brail (see PS-1 form)</small>		<b>sum of all brails</b> ( <input type="text"/> ) + ( <input type="text"/> ) = <input type="text"/> mT <small>less bycatch (see below)</small>		<b>Total catch</b> = <input type="text"/> mT <b>= Total tuna catch</b> = <input type="text"/> mT		<b>OBSERVER'S BREAKDOWN OF TOTAL TUNA CAUGHT</b> <small>- circle YES or NO for each species</small>						<small>N.B.: these calculations include all the tuna in this catch, whether retained or discarded</small>					
						<b>SKIP-JACK</b>		<b>YELLOWFIN</b>				<b>BIGEYE</b>					
								<b>SMALL (&lt; 75 cm)</b>		<b>LARGE (&gt; 75 cm)</b>		<b>SMALL (&lt; 75 cm)</b>		<b>LARGE (&gt; 75 cm)</b>			
						YES	(%)	YES	(%)	YES	(%)	NUMBER	YES	(%)	YES	(%)	NUMBER
						NO		NO		NO			NO		NO		

BY-CATCH (ALL NON-TARGET SPECIES)						TARGET TUNA				
SPECIES CODE	FATE CODE	OBSERVER (mT) No.	VESSEL LOG (mT) No.	COMMENTS	A. OBSERVER estimates of total of each species caught (mT)	SKJ	YFT	BET		
					Observer	FATE				
					Observer	a. (mT)				
					Vessel	FATE				
					Vessel	(mT)				
					Observer	FATE				
					Observer	b. (mT)				
					Vessel	FATE				
					Vessel	(mT)				
					Observer	FATE				
					Observer	c. (mT)				
					Vessel	FATE				
					Vessel	(mT)				
Total weight of bycatch: <input type="text"/> mT						B. OBSERVER totals (mT) discards + RCC (a+b+c):				
Comments						Tuna kept onboard for later unload if not RWW	FATE			
							OBS (mT)			
							VES (mT)			
						FATE	RWW	RWW	RWW	
OBS (mT)										
VES (mT)										
						Due to gear break / bycatch mitigation		ESC	ESC	ESC
						estimates	OBS (mT)			
							VES (mT)			

TAGS - How many Tags were recovered?				Record species and tag numbers. Fill tag recovery forms!			
RWW	Retained - whole weight	DFR	Discarded trunk - fins retained (shark only)	DPA	Discarded SSI - alive	DPA	
RHG	Retained - headed and gutted (billfish only)	DTS	Discarded - too small (tuna only)	DPD	(species of - dead)	DPD	
RGG	Retained - gilled and gutted (kept for sale)	DGD	Discarded - gear damage (tuna only)	DPU	special interest) - unknown condition	DPU	
RPT	Retained - partial (e.g. fillet, loin)	DVF	Discarded - vessel fully loaded	DPQ	Discarded - poor quality		
RCC	Retained - crew consumption (onboard)	DUS	Discarded - unwanted species	DOR	Discarded - other reasons (specify)		
ROR	Retained - other reason (specify)	DSD	Discarded - shark damage	ESC	= Escaped		
RFR	Retained trunk - fins retained (shark only)	DWD	Discarded - whale damage				

(A PS-3 form **must** be filled out for the first and every set (recorded as *activity code 1* on PS-2) - whether monitored or not, even if a skunk set.) (For the very rare occasion that a set is not monitored the column for the vessel's estimate of catch must still be completed.) (N.B.: A PS-4 form is not required for skunk set.)

<b>OBSERVER NAME</b>	Print first name first and last name last. Eg.: "John Smith" not "Smith John". Print clearly !
<b>VESSEL NAME</b>	Full unabbreviated name. Eg.: a boat with name "Captain Paul Catchit" should not be abbreviated to Capt. P.Catchit.
<b>PAGE OF</b>	Number each PS-3 form from start until end of trip. Because one PS-3 is used for every set this is also the set No.
<b>OBSERVER TRIP ID No.</b>	This number is the same on all forms for a single observer trip.
<b>START of SET</b> Observer (PS-2)	The exact date and time that the observer recorded for this set on the PS-2. Record as year/month/day.
<b>DATE and TIME</b> Vessel (logsheet)	The exact date and time that the vessel has recorded for this set on their PS Log Sheet. Record as year/month/date.

<b>SET SEQUENCE</b>	<b>BEGIN SET (S KIFF OFF)</b>	Exact same time as recorded on the daily log (PS-2) and in the "Observer Start of Set Date and Time" section, above.
	<b>BEGIN PURSING (WINCH ON)</b>	The purse wire will be thrown to the vessel from the skiff, and it will then be attached to the winch. Record the time the winch is switched on.
	<b>END PURSING (RINGS UP)</b>	During the winching, a bunch of rings will come on board. Record the time when the last of the rings appears. This indicates the net has totally enclosed (pursed) the fish and they cannot escape.
	<b>BEGIN BRAILING</b>	Record the time the vessel starts the brailing process. This will have been recorded on the PS-4 form. If there was no brailing just record a dash
	<b>END BRAILING / SACK ONBOARD</b>	Record the time when the vessel finishes brailing. If there was no brailing record the time that the sack was lifted up on to the deck.
	<b>END SET (NEXT ACTIVITY START)</b>	Next activity START marks end of set (no later than 'skiff comes on board'). Record the activity change on PS-2.

<b>TOTAL CATCH and TOTAL TUNA CATCH</b>	
<b>Brail Capacity</b>	Find on the PS-1. Use to calculate total catch. <b>'Brail capacity' x 'Sum of all brails' = 'TOTAL CATCH'</b>
<b>Sum of all brails</b>	After calculating the total number of brails on the PS-4 form (for the same set) transfer your answer here.
Type 1 and	... if a 2nd brail type is also used for this set samples, estimates of the brail capacity for both brail types must be made. Fill the 'brail capacity' and the 'sum of all brail' fields for both the 'type 1' and the 'type 2' brails.
Type 2 brails	Add calculations of total catch from each brail type together to get a single "TOTAL CATCH" figure. (If there is no 'type 2' brail (which is normal) then simply record a dash in each of the 'type 2' fields and all other calculations will be based only on the 'type 1' brail information that is provided.)
<b>TOTAL CATCH</b>	This is the combined weight of all the (target and bycatch species) fish brought onboard.
<b>less bycatch</b>	Calculate the amount of bycatch (in mT) that is in the catch in the bycatch area below and transfer to this field
<b>TOTAL TUNA CATCH</b>	Subtract the total amount of bycatch from the TOTAL CATCH to get TOTAL TUNA CATCH. This includes all tuna caught whether or not it is later discarded. It does not include tuna that escaped <b>alive</b> from net.

<b>OBSERVER'S BREAKDOWN of TOTAL TUNA CAUGHT</b>	<b>YES or NO</b>	YES' or NO' <b>must</b> be circled to show if SKJ, small YFT, large YFT, small BET, large BET were even seen in the catch
<b>%</b>		Carefully eye-estimate the <b>percentage of the TOTAL TUNA</b> for each species (+ each size category for YFT and BET) N.B.: % of small (or large) YFT (or BET) is the % of <b>TOTAL TUNA</b> ! NOT % of that species of tuna.
<b>Number</b>		If there are not many large YFT or BET and good estimate of number can be made record number of large YFT (or BET) If a <b>good</b> estimate (counts) is not easy, dash the 'number' field. <b>Do not</b> make a rough estimate !

<b>SET CATCH DETAILS</b>	<b>BY-CATCH SPECIES CODE</b>	Record every species that lands on deck with the three letter FAO species code.
	<b>FATE CODE</b>	Use fate codes provided to say what happened to each species landed Use 1 line per species/fate group. Remember that a species may be split into groups each with a different fate code. Eg: RRU RWW 2 mT <b>REMEMBER</b> - use only one (the best and most informative) code for each line. RRU DTS 0.5 mT <b>NEW 2014:</b> Use the SSI FATE CODES FOR ALL SHARKS to indicate 'live' status. Use 'RFR' / 'DFR' in comments if finning observed).
	<b>OBSERVER</b>	
	<b>(mT)</b>	Calculate the amount of each species caught, in each fate code category, using an appropriate assessment technique. Use mT. For instance if 300 kg of Mahi mahi and 40 kg of wahoo were caught - record 0.3 mt DOL /0.04 mt WAH
	<b>Number</b>	Only record a number if an accurate count is possible. Large amounts are recorded in "mT". If possible record both.
	<b>VESSEL LOG</b>	
<b>(mT)</b>	Copy the figures recorded by the ship's officers on the Vessel Logsheet, for this set.	
<b>Number</b>	Place a dash in the column if they have not recorded the species.	
<b>Total weight of bycatch</b>	Calculate from the fields above for observer (important for use in 'Total Tuna' calculation) and vessel bycatch estimates	

<b>TAGS</b>	<b>TARGET TUNA</b>	
	<b>A. OBSERVER estimates of total caught</b>	Calculate the combined large and small <b>% x Total tuna catch</b> for each species (SKJ, YFT and BET)
	<b>FATE</b>	Record fate of discarded tuna or tuna retained for crew consumption (RCC), using fate codes listed at bottom of form
	<b>OBS (mT)</b>	Give a careful approximation (eye-estimate) of the total amount of catch for the relevant fate /species code combination. Record the amounts in metric tonnes.
	<b>VES (mT)</b>	Copy the weight, as recorded for each species in the vessel's logsheet. If nothing is recorded in the logsheet place a dash in the data field. If "0" is recorded on the logsheet record "0" here. <b>Record in metric tonnes.</b> Eg.: If amount on logsheet is in short tons this <b>MUST</b> be converted to metric tonnes.
	<b>B. OBSERVER totals (mT) discards + RCC</b>	For each species add together the mT amounts that are recorded in the rows 'a.', 'b.' and 'c' to get the total of all the discarded and the retained for crew consumption (RCC) combined for that species.
	<b>Tuna kept onboard for later unload</b>	Usually tuna are retained whole weight (RWW). If so then RWW can be calculated as (A. - B.) for each species. If tuna is otherwise retained onboard for later unload (fate = R??) then A. - B. = the combined total of RWW + R??
	<b>Due to gear break / bycatch mitigation</b>	ESC Best observer estimate of mT of any live tuna that escaped during set. Refer to Captain for any tuna seen escaping via sonar. Include any live tuna escaped from gear breakage or because vessel tries to release important bycatch. N.B. This does not include dead tuna that are released from the net after a breakdown during or after net sac-up = discards.
	<b>How many tags were recovered? species and tag numbers</b>	Note the number of tags found from in this set. Look out for tags on tuna, billfish, sharks, turtles, birds, etc. Record <b>tag number</b> and <b>species</b> . Note tag colour, tagging organisation and any unusual features about condition. Fill these and other tag details into the tag recovery form (and GEN-2 form if necessary).

# SPC/FFA REGIONAL PURSE SEINE OBSERVER SET DETAILS

**FORM PS - 3**

REV. MAR. 2014

OBSERVER NAME	VESSEL NAME	PAGE _____ OF _____ (SET No.)
OBSERVER TRIP I.D. NUMBER	START OF SET DATE AND TIME OBSERVER: YY MM DD hh mm (see PS-2)	START OF SET DATE AND TIME VESSEL LOG: YY MM DD hh mm

SET SEQUENCE TIMES						
EVENT:	START OF SET (SKIFF OFF)	BEGIN PURSING (WINCH ON)	END PURSING (RINGS UP)	BEGIN BRAILING	END OF BRAILING / SACK ONBOARD	END OF SET (NEXT ACTIVITY START)
TIME:						

SET CATCH DETAILS											
OBSERVER'S BREAKDOWN OF TOTAL TUNA CAUGHT <small>- circle YES or NO for each species</small>										N.B.: these calculations include all the tuna in this catch, whether retained or discarded	
brail capacity ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT <small>Type 1 brail (see PS-1 form)</small>		sum of all brails ( <input type="text"/> mT x <input type="text"/> ) + <input type="text"/> mT <small>(see PS-4 form)</small>		Total catch less bycatch (see below) = Total tuna catch <input type="text"/> mT		<b>SKIP-JACK</b> YES (%) NO		<b>YELLOWFIN</b> SMALL (< 75 cm) LARGE (> 75 cm) YES (%) NO		<b>BIGEYE</b> SMALL (< 75 cm) LARGE (> 75 cm) YES (%) NO	

BY-CATCH (ALL NON-TARGET SPECIES)					TARGET TUNA				
SPECIES CODE	FATE CODE	OBSERVER No. (mT)	VESSEL LOG No. (mT)	COMMENTS	A. OBSERVER estimates of total of each species caught (mT)		SKJ	YFT	BET
					Observer	FATE			
					Observer	a. (mT)			
					Vessel	FATE			
					Vessel	(mT)			
					Observer	FATE			
					Observer	b. (mT)			
					Vessel	FATE			
					Vessel	(mT)			
					Observer	FATE			
					Observer	c. (mT)			
					Vessel	FATE			
					Vessel	(mT)			
Total weight of bycatch: _____ mT					B. OBSERVER totals (mT) discards + RCC (a+b+c): _____				
Comments					Tuna kept onboard for later unload if not RWW	FATE			
						OBS (mT)			
						VES (mT)			
					FATE	RWW	RWW	RWW	
					Tuna kept onboard for later unload if not RWW	OBS (mT)			
						VES (mT)			
						Due to gear break / bycatch mitigation	ESC	ESC	ESC
					estimates	OBS (mT)			
						VES (mT)			
<b>TAGS - How many Tags were recovered?</b>					<small>Record species and tag numbers. Fill tag recovery forms!</small>				

FATE CODES			
RWW	Retained - whole weight	DFR	Discarded trunk - fins retained (shark only)
RHG	Retained - headed and gutted (billfish only)	DTS	Discarded - too small (tuna only)
RGG	Retained - gilled and gutted (kept for sale)	DGD	Discarded - gear damage (tuna only)
RPT	Retained - partial (e.g. fillet, loin)	DVF	Discarded - vessel fully loaded
RCC	Retained - crew consumption (onboard)	DUS	Discarded - unwanted species
ROR	Retained - other reason (specify)	DSD	Discarded - shark damage
RFR	Retained trunk - fins retained (shark only)	DWD	Discarded - whale damage
DPA	Discarded SSI - alive	DPA	
DPD	(species of special interest) - dead	DPD	
DPU	- unknown condition	DPU	
DPQ	Discarded - poor quality		
DOR	Discarded - other reasons (specify)		
ESC	= Escaped		

(A PS-3 form **must** be filled out for the first and every set (recorded as *activity code 1* on PS-2) - whether monitored or not, even if a skunk set.) (For the very rare occasion that a set is not monitored the column for the vessel's estimate of catch must still be completed.) (N.B.: A PS-4 form is not required for skunk set.)

<b>OBSERVER NAME</b>	Print first name first and last name last. Eg.: "John Smith" not "Smith John". Print clearly !
<b>VESSEL NAME</b>	Full unabbreviated name. Eg.: a boat with name "Captain Paul Catchit" should not be abbreviated to Capt. P.Catchit.
<b>PAGE OF</b>	Number each PS-3 form from start until end of trip. Because one PS-3 is used for every set this is also the set No.
<b>OBSERVER TRIP ID No.</b>	This number is the same on all forms for a single observer trip.
<b>START of SET</b> Observer (PS-2)	The exact date and time that the observer recorded for this set on the PS-2. Record as year/month/day.
<b>DATE and TIME</b> Vessel (logsheet)	The exact date and time that the vessel has recorded for this set on their PS Log Sheet. Record as year/month/date.

<b>SET SEQUENCE</b>	<b>BEGIN SET (S KIFF OFF)</b>	Exact same time as recorded on the daily log (PS-2) and in the "Observer Start of Set Date and Time" section, above.
	<b>BEGIN PURSING (WINCH ON)</b>	The purse wire will be thrown to the vessel from the skiff, and it will then be attached to the winch. Record the time the winch is switched on.
	<b>END PURSING (RINGS UP)</b>	During the winching, a bunch of rings will come on board. Record the time when the last of the rings appears. This indicates the net has totally enclosed (pursed) the fish and they cannot escape.
	<b>BEGIN BRAILING</b>	Record the time the vessel starts the brailing process. This will have been recorded on the PS-4 form. If there was no brailing just record a dash
	<b>END BRAILING / SACK ONBOARD</b>	Record the time when the vessel finishes brailing. If there was no brailing record the time that the sack was lifted up on to the deck.
	<b>END SET (NEXT ACTIVITY START)</b>	Next activity START marks end of set (no later than 'skiff comes on board'). Record the activity change on PS-2.

<b>TOTAL CATCH and TOTAL TUNA CATCH</b>	
<b>Brail Capacity</b>	Find on the PS-1. Use to calculate total catch. <b>'Brail capacity' x 'Sum of all brails' = 'TOTAL CATCH'</b>
<b>Sum of all brails</b>	After calculating the total number of brails on the PS-4 form (for the same set) transfer your answer here.
Type 1 and Type 2 brails	... if a 2nd brail type is also used for this set samples, estimates of the brail capacity for both brail types must be made. Fill the 'brail capacity' and the 'sum of all brail' fields for both the 'type 1' and the 'type 2' brails. Add calculations of total catch from each brail type together to get a single "TOTAL CATCH" figure. (If there is no 'type 2' brail (which is normal) then simply record a dash in each of the 'type 2' fields and all other calculations will be based only on the 'type 1' brail information that is provided.)
<b>TOTAL CATCH less bycatch</b>	This is the combined weight of all the (target and bycatch species) fish brought onboard. Calculate the amount of bycatch (in mT) that is in the catch in the bycatch area below and transfer to this field
<b>TOTAL TUNA CATCH</b>	Subtract the total amount of bycatch from the TOTAL CATCH to get TOTAL TUNA CATCH. This includes all tuna caught whether or not it is later discarded. It does not include tuna that escaped <b>alive</b> from net.

<b>OBSERVER'S BREAKDOWN of TOTAL TUNA CAUGHT</b>	<b>YES or NO</b>	YES' or NO' <b>must</b> be circled to show if SKJ, small YFT, large YFT, small BET, large BET were even seen in the catch
<b>%</b>		Carefully eye-estimate the <b>percentage of the TOTAL TUNA</b> for each species (+ each size category for YFT and BET) N.B.: % of small (or large) YFT (or BET) is the % of <b>TOTAL TUNA</b> ! NOT % of that species of tuna.
<b>Number</b>		If there are not many large YFT or BET and good estimate of number can be made record number of large YFT (or BET) If a <b>good</b> estimate (counts) is not easy, dash the 'number' field. <b>Do not</b> make a rough estimate !

<b>SET CATCH DETAILS</b>	<b>BY-CATCH SPECIES CODE</b>	Record every species that lands on deck with the three letter FAO species code.
	<b>FATE CODE</b>	Use fate codes provided to say what happened to each species landed Use 1 line per species/fate group. Remember that a species may be split into groups each with a different fate code. Eg: RRU RWW 2 mT <b>REMEMBER</b> - use only one (the best and most informative) code for each line. RRU DTS 0.5 mT <b>NEW 2014:</b> Use the SSI FATE CODES FOR ALL SHARKS to indicate 'live' status. Use 'RFR' / 'DFR' in comments if finning observed).
	<b>OBSERVER (mT)</b>	Calculate the amount of each species caught, in each fate code category, using an appropriate assessment technique. Use mT. For instance if 300 kg of Mahi mahi and 40 kg of wahoo were caught - record 0.3 mt DOL /0.04 mt WAH
	<b>Number</b>	Only record a number if an accurate count is possible. Large amounts are recorded in "mT". If possible record both.
	<b>VESSEL LOG (mT)</b>	Copy the figures recorded by the ship's officers on the Vessel Logsheet, for this set.
	<b>Number</b>	Place a dash in the column if they have not recorded the species.
<b>Total weight of bycatch</b>	Calculate from the fields above for observer (important for use in 'Total Tuna' calculation) and vessel bycatch estimates	

<b>TAGS</b>	<b>TARGET TUNA</b>	
	<b>A. OBSERVER estimates of total caught</b>	Calculate the combined large and small <b>% x Total tuna catch</b> for each species (SKJ, YFT and BET)
	<b>FATE</b>	Record fate of discarded tuna or tuna retained for crew consumption (RCC), using fate codes listed at bottom of form
	<b>OBS (mT)</b>	Give a careful approximation (eye-estimate) of the total amount of catch for the relevant fate /species code combination. Record the amounts in metric tonnes.
	<b>VES (mT)</b>	Copy the weight, as recorded for each species in the vessel's logsheet. If nothing is recorded in the logsheet place a dash in the data field. If "0" is recorded on the logsheet record "0" here. <b>Record in metric tonnes.</b> Eg.: If amount on logsheet is in short tons this <b>MUST</b> be converted to metric tonnes.
	<b>B. OBSERVER totals (mT) discards + RCC</b>	For each species add together the mT amounts that are recorded in the rows 'a.', 'b.' and 'c' to get the total of all the discarded and the retained for crew consumption (RCC) combined for that species.
	<b>Tuna kept onboard for later unload</b>	Usually tuna are retained whole weight (RWW). If so then RWW can be calculated as (A. - B.) for each species. If tuna is otherwise retained onboard for later unload (fate = R??) then A. - B. = the combined total of RWW + R??
	<b>Due to gear break / bycatch mitigation</b>	ESC Best observer estimate of mT of any live tuna that escaped during set. Refer to Captain for any tuna seen escaping via sonar. Include any live tuna escaped from gear breakage or because vessel tries to release important bycatch. N.B. This does not include dead tuna that are released from the net after a breakdown during or after net sac-up = discards.
	<b>How many tags were recovered? species and tag numbers</b>	Note the number of tags found from in this set. Look out for tags on tuna, billfish, sharks, turtles, birds, etc. Record <b>tag number</b> and <b>species</b> . Note tag colour, tagging organisation and any unusual features about condition. Fill these and other tag details into the tag recovery form (and GEN-2 form if necessary).

# SPC/FFA REGIONAL PURSE SEINE OBSERVER SET DETAILS

**FORM PS - 3**

REV. MAR. 2014

OBSERVER NAME	VESSEL NAME	PAGE _____ OF _____ (SET No.)
OBSERVER TRIP I.D. NUMBER	START OF SET DATE AND TIME OBSERVER: YY MM DD hh mm (see PS-2)	START OF SET DATE AND TIME VESSEL LOG: YY MM DD hh mm

SET SEQUENCE TIMES						
EVENT:	START OF SET (SKIFF OFF)	BEGIN PURSING (WINCH ON)	END PURSING (RINGS UP)	BEGIN BRAILING	END OF BRAILING / SACK ONBOARD	END OF SET (NEXT ACTIVITY START)
TIME:						

SET CATCH DETAILS											
OBSERVER'S BREAKDOWN OF TOTAL TUNA CAUGHT <small>- circle YES or NO for each species</small>										N.B.: these calculations include all the tuna in this catch, whether retained or discarded	
brail capacity ( <input type="text"/> mT ) <small>Type 1 brail (see PS-1 form)</small>		sum of all brails x ( <input type="text"/> ) <small>(see PS-4 form)</small>		= <input type="text"/> mT less bycatch (see below)		= <input type="text"/> mT = Total tuna catch					
SKIP-JACK		YELLOWFIN				BIGEYE					
		SMALL (< 75 cm)		LARGE (> 75 cm)		SMALL (< 75 cm)		LARGE (> 75 cm)			
YES	(%)	YES	(%)	YES	(%)	NUMBER	YES	(%)	YES	(%)	NUMBER
NO		NO		NO			NO		NO		

BY-CATCH (ALL NON-TARGET SPECIES)						TARGET TUNA				
SPECIES CODE	FATE CODE	OBSERVER No. (mT)	VESSEL LOG No. (mT)	COMMENTS	A. OBSERVER estimates of total of each species caught (mT)	SKJ	YFT	BET		
					Observer	FATE				
					Observer	a. (mT)				
					Vessel	FATE				
					Vessel	(mT)				
					Observer	FATE				
					Observer	b. (mT)				
					Vessel	FATE				
					Vessel	(mT)				
					Observer	FATE				
					Observer	c. (mT)				
					Vessel	FATE				
					Vessel	(mT)				
Total weight of bycatch: _____ mT						B. OBSERVER totals (mT) discards + RCC (a+b+c):				
Comments						Tuna kept onboard for later unload if not RWW	FATE			
							OBS (mT)			
							VES (mT)			
						FATE	RWW	RWW	RWW	
						Due to gear break / bycatch mitigation	ESC	ESC	ESC	
							estimates	OBS (mT)		
								VES (mT)		
<b>TAGS - How many Tags were recovered?</b>						<small>Record species and tag numbers. Fill tag recovery forms!</small>				

FATE CODES			
RWW	Retained - whole weight	DFR	Discarded trunk - fins retained (shark only)
RHG	Retained - headed and gutted (billfish only)	DTS	Discarded - too small (tuna only)
RGG	Retained - gilled and gutted (kept for sale)	DGD	Discarded - gear damage (tuna only)
RPT	Retained - partial (e.g. fillet, loin)	DVF	Discarded - vessel fully loaded
RCC	Retained - crew consumption (onboard)	DUS	Discarded - unwanted species
ROR	Retained - other reason (specify)	DSD	Discarded - shark damage
RFR	Retained trunk - fins retained (shark only)	DWD	Discarded - whale damage
DPA	Discarded SSI - alive	DPA	
DPD	(species of special interest) - dead	DPD	
DPU	- unknown condition	DPU	
DPQ	Discarded - poor quality		
DOR	Discarded - other reasons (specify)		
ESC	= Escaped		

(A PS-3 form **must** be filled out for the first and every set (recorded as *activity code 1* on PS-2) - whether monitored or not, even if a skunk set.) (For the very rare occasion that a set is not monitored the column for the vessel's estimate of catch must still be completed.) (N.B.: A PS-4 form is not required for skunk set.)

<b>OBSERVER NAME</b>	Print first name first and last name last. Eg.: "John Smith" not "Smith John". Print clearly !
<b>VESSEL NAME</b>	Full unabbreviated name. Eg.: a boat with name "Captain Paul Catchit" should not be abbreviated to Capt. P.Catchit.
<b>PAGE OF</b>	Number each PS-3 form from start until end of trip. Because one PS-3 is used for every set this is also the set No.
<b>OBSERVER TRIP ID No.</b>	This number is the same on all forms for a single observer trip.
<b>START of SET</b> Observer (PS-2)	The exact date and time that the observer recorded for this set on the PS-2. Record as year/month/day.
<b>DATE and TIME</b> Vessel (logsheet)	The exact date and time that the vessel has recorded for this set on their PS Log Sheet. Record as year/month/date.

<b>SET SEQUENCE</b>	<b>BEGIN SET (S KIFF OFF)</b>	Exact same time as recorded on the daily log (PS-2) and in the "Observer Start of Set Date and Time" section, above.
	<b>BEGIN PURSING (WINCH ON)</b>	The purse wire will be thrown to the vessel from the skiff, and it will then be attached to the winch. Record the time the winch is switched on.
	<b>END PURSING (RINGS UP)</b>	During the winching, a bunch of rings will come on board. Record the time when the last of the rings appears. This indicates the net has totally enclosed (pursed) the fish and they cannot escape.
	<b>BEGIN BRAILING</b>	Record the time the vessel starts the brailing process. This will have been recorded on the PS-4 form. If there was no brailing just record a dash
	<b>END BRAILING / SACK ONBOARD</b>	Record the time when the vessel finishes brailing. If there was no brailing record the time that the sack was lifted up on to the deck.
	<b>END SET (NEXT ACTIVITY START)</b>	Next activity START marks end of set (no later than 'skiff comes on board'). Record the activity change on PS-2.

<b>TOTAL CATCH and TOTAL TUNA CATCH</b>	
<b>Brail Capacity</b>	Find on the PS-1. Use to calculate total catch. <b>'Brail capacity' x 'Sum of all brails' = 'TOTAL CATCH'</b>
<b>Sum of all brails</b>	After calculating the total number of brails on the PS-4 form (for the same set) transfer your answer here.
Type 1 and Type 2 brails	... if a 2nd brail type is also used for this set samples, estimates of the brail capacity for both brail types must be made. Fill the 'brail capacity' and the 'sum of all brail' fields for both the 'type 1' and the 'type 2' brails. Add calculations of total catch from each brail type together to get a single "TOTAL CATCH" figure. (If there is no 'type 2' brail (which is normal) then simply record a dash in each of the 'type 2' fields and all other calculations will be based only on the 'type 1' brail information that is provided.)
<b>TOTAL CATCH less bycatch</b>	This is the combined weight of all the (target and bycatch species) fish brought onboard. Calculate the amount of bycatch (in mT) that is in the catch in the bycatch area below and transfer to this field
<b>TOTAL TUNA CATCH</b>	Subtract the total amount of bycatch from the TOTAL CATCH to get TOTAL TUNA CATCH. This includes all tuna caught whether or not it is later discarded. It does not include tuna that escaped <b>alive</b> from net.

<b>OBSERVER'S BREAKDOWN of TOTAL TUNA CAUGHT</b>	<b>YES or NO</b>	YES' or NO' <b>must</b> be circled to show if SKJ, small YFT, large YFT, small BET, large BET were even seen in the catch
<b>%</b>		Carefully eye-estimate the <b>percentage of the TOTAL TUNA</b> for each species (+ each size category for YFT and BET) N.B.: % of small (or large) YFT (or BET) is the % of <b>TOTAL TUNA</b> ! NOT % of that species of tuna.
<b>Number</b>		If there are not many large YFT or BET and good estimate of number can be made record number of large YFT (or BET) If a <b>good</b> estimate (counts) is not easy, dash the 'number' field. <b>Do not</b> make a rough estimate !

<b>SET CATCH DETAILS</b>	<b>BY-CATCH SPECIES CODE</b>	Record every species that lands on deck with the three letter FAO species code.
	<b>FATE CODE</b>	Use fate codes provided to say what happened to each species landed Use 1 line per species/fate group. Remember that a species may be split into groups each with a different fate code. Eg: RRU RWW 2 mT <b>REMEMBER</b> - use only one (the best and most informative) code for each line. RRU DTS 0.5 mT <b>NEW 2014:</b> Use the SSI FATE CODES FOR ALL SHARKS to indicate 'live' status. Use 'RFR' / 'DFR' in comments if finning observed).
	<b>OBSERVER (mT)</b>	Calculate the amount of each species caught, in each fate code category, using an appropriate assessment technique. Use mT. For instance if 300 kg of Mahi mahi and 40 kg of wahoo were caught - record 0.3 mt DOL /0.04 mt WAH
	<b>Number</b>	Only record a number if an accurate count is possible. Large amounts are recorded in "mT". If possible record both.
	<b>VESSEL LOG (mT)</b>	Copy the figures recorded by the ship's officers on the Vessel Logsheet, for this set.
	<b>Number</b>	Place a dash in the column if they have not recorded the species.
<b>Total weight of bycatch</b>	Calculate from the fields above for observer (important for use in 'Total Tuna' calculation) and vessel bycatch estimates	

<b>TAGS</b>	<b>TARGET TUNA</b>	
	<b>A. OBSERVER estimates of total caught</b>	Calculate the combined large and small <b>% x Total tuna catch</b> for each species (SKJ, YFT and BET)
	<b>FATE</b>	Record fate of discarded tuna or tuna retained for crew consumption (RCC), using fate codes listed at bottom of form
	<b>OBS (mT)</b>	Give a careful approximation (eye-estimate) of the total amount of catch for the relevant fate /species code combination. Record the amounts in metric tonnes.
	<b>VES (mT)</b>	Copy the weight, as recorded for each species in the vessel's logsheet. If nothing is recorded in the logsheet place a dash in the data field. If "0" is recorded on the logsheet record "0" here. <b>Record in metric tonnes.</b> Eg.: If amount on logsheet is in short tons this <b>MUST</b> be converted to metric tonnes.
	<b>B. OBSERVER totals (mT) discards + RCC</b>	For each species add together the mT amounts that are recorded in the rows 'a.', 'b.' and 'c' to get the total of all the discarded and the retained for crew consumption (RCC) combined for that species.
	<b>Tuna kept onboard for later unload</b>	Usually tuna are retained whole weight (RWW). If so then RWW can be calculated as (A. - B.) for each species. If tuna is otherwise retained onboard for later unload (fate = R??) then A. - B. = the combined total of RWW + R??
	<b>Due to gear break / bycatch mitigation</b>	ESC Best observer estimate of mT of any live tuna that escaped during set. Refer to Captain for any tuna seen escaping via sonar. Include any live tuna escaped from gear breakage or because vessel tries to release important bycatch. N.B. This does not include dead tuna that are released from the net after a breakdown during or after net sac-up = discards.
	<b>How many tags were recovered? species and tag numbers</b>	Note the number of tags found from in this set. Look out for tags on tuna, billfish, sharks, turtles, birds, etc. Record <b>tag number</b> and <b>species</b> . Note tag colour, tagging organisation and any unusual features about condition. Fill these and other tag details into the tag recovery form (and GEN-2 form if necessary).



# SPC/FFA REGIONAL PURSE SEINE OBSERVER SET DETAILS

**FORM PS - 3**

REV. MAR. 2014

OBSERVER NAME	VESSEL NAME	PAGE _____ OF _____ (SET No.)
OBSERVER TRIP I.D. NUMBER	START OF SET DATE AND TIME OBSERVER: YY MM DD hh mm (see PS-2)	START OF SET DATE AND TIME VESSEL LOG: YY MM DD hh mm

SET SEQUENCE TIMES						
EVENT:	START OF SET (SKIFF OFF)	BEGIN PURSING (WINCH ON)	END PURSING (RINGS UP)	BEGIN BRAILING	END OF BRAILING / SACK ONBOARD	END OF SET (NEXT ACTIVITY START)
TIME:						

SET CATCH DETAILS											
OBSERVER'S BREAKDOWN OF TOTAL TUNA CAUGHT <small>- circle YES or NO for each species</small>										N.B.: these calculations include all the tuna in this catch, whether retained or discarded	
brail capacity ( <input type="text"/> mT ) x ( <input type="text"/> ) = <input type="text"/> mT <small>Type 1 brail (see PS-1 form)</small>		sum of all brails ( <input type="text"/> mT ) + ( <input type="text"/> ) = <input type="text"/> mT <small>less bycatch (see below)</small>		Total catch = <input type="text"/> mT = Total tuna catch		<b>SKIP-JACK</b> YES (%) NO		<b>YELLOWFIN</b> SMALL (< 75 cm) LARGE (> 75 cm) YES (%) NO		<b>BIGEYE</b> SMALL (< 75 cm) LARGE (> 75 cm) YES (%) NO	

BY-CATCH (ALL NON-TARGET SPECIES)					TARGET TUNA				
SPECIES CODE	FATE CODE	OBSERVER No. (mT)	VESSEL LOG No. (mT)	COMMENTS	A. OBSERVER estimates of total of each species caught (mT)		SKJ	YFT	BET
					Observer	FATE			
					Observer	a. (mT)			
					Vessel	FATE			
					Vessel	(mT)			
					Observer	FATE			
					Observer	b. (mT)			
					Vessel	FATE			
					Vessel	(mT)			
					Observer	FATE			
					Observer	c. (mT)			
					Vessel	FATE			
					Vessel	(mT)			
Total weight of bycatch: _____ mT					B. OBSERVER totals (mT) discards + RCC (a+b+c): _____				
Comments					Tuna kept onboard for later unload if not RWW	FATE			
						OBS (mT)			
						VES (mT)			
					FATE	RWW	RWW	RWW	
					Due to gear break / bycatch mitigation				
						OBS (mT)			
						VES (mT)			
<b>TAGS - How many Tags were recovered?</b>					<small>Record species and tag numbers. Fill tag recovery forms!</small>				
					estimates	OBS (mT)			
					estimates	VES (mT)			

FATE CODES			
RWW	Retained - whole weight	DFR	Discarded trunk - fins retained (shark only)
RHG	Retained - headed and gutted (billfish only)	DTS	Discarded - too small (tuna only)
RGG	Retained - gilled and gutted (kept for sale)	DGD	Discarded - gear damage (tuna only)
RPT	Retained - partial (e.g. fillet, loin)	DVF	Discarded - vessel fully loaded
RCC	Retained - crew consumption (onboard)	DUS	Discarded - unwanted species
ROR	Retained - other reason (specify)	DSD	Discarded - shark damage
RFR	Retained trunk - fins retained (shark only)	DWD	Discarded - whale damage
DPA	Discarded SSI - alive	DPA	
DPD	(species of special interest) - dead	DPD	
DPU	- unknown condition	DPU	
DPQ	Discarded - poor quality		
DOR	Discarded - other reasons (specify)		
ESC	= Escaped		

(A PS-3 form **must** be filled out for the first and every set (recorded as *activity code 1* on PS-2) - whether monitored or not, even if a skunk set.) (For the very rare occasion that a set is not monitored the column for the vessel's estimate of catch must still be completed.) (N.B.: A PS-4 form is not required for skunk set.)

<b>OBSERVER NAME</b>	Print first name first and last name last. Eg.: "John Smith" not "Smith John". Print clearly !
<b>VESSEL NAME</b>	Full unabbreviated name. Eg.: a boat with name "Captain Paul Catchit" should not be abbreviated to Capt. P.Catchit.
<b>PAGE OF</b>	Number each PS-3 form from start until end of trip. Because one PS-3 is used for every set this is also the set No.
<b>OBSERVER TRIP ID No.</b>	This number is the same on all forms for a single observer trip.
<b>START of SET</b> Observer (PS-2)	The exact date and time that the observer recorded for this set on the PS-2. Record as year/month/day.
<b>DATE and TIME</b> Vessel (logsheet)	The exact date and time that the vessel has recorded for this set on their PS Log Sheet. Record as year/month/date.

<b>SET SEQUENCE</b>	<b>BEGIN SET (S KIFF OFF)</b>	Exact same time as recorded on the daily log (PS-2) and in the "Observer Start of Set Date and Time" section, above.
	<b>BEGIN PURSING (WINCH ON)</b>	The purse wire will be thrown to the vessel from the skiff, and it will then be attached to the winch. Record the time the winch is switched on.
	<b>END PURSING (RINGS UP)</b>	During the winching, a bunch of rings will come on board. Record the time when the last of the rings appears. This indicates the net has totally enclosed (pursed) the fish and they cannot escape.
	<b>BEGIN BRAILING</b>	Record the time the vessel starts the brailing process. This will have been recorded on the PS-4 form. If there was no brailing just record a dash
	<b>END BRAILING / SACK ONBOARD</b>	Record the time when the vessel finishes brailing. If there was no brailing record the time that the sack was lifted up on to the deck.
	<b>END SET (NEXT ACTIVITY START)</b>	Next activity START marks end of set (no later than 'skiff comes on board'). Record the activity change on PS-2.

<b>TOTAL CATCH and TOTAL TUNA CATCH</b>	
<b>Brail Capacity</b>	Find on the PS-1. Use to calculate total catch. <b>'Brail capacity' x 'Sum of all brails' = 'TOTAL CATCH'</b>
<b>Sum of all brails</b>	After calculating the total number of brails on the PS-4 form (for the same set) transfer your answer here.
Type 1 and Type 2 brails	... if a 2nd brail type is also used for this set samples, estimates of the brail capacity for both brail types must be made. Fill the 'brail capacity' and the 'sum of all brail' fields for both the 'type 1' and the 'type 2' brails. Add calculations of total catch from each brail type together to get a single "TOTAL CATCH" figure. (If there is no 'type 2' brail (which is normal) then simply record a dash in each of the 'type 2' fields and all other calculations will be based only on the 'type 1' brail information that is provided.)
<b>TOTAL CATCH less bycatch</b>	This is the combined weight of all the (target and bycatch species) fish brought onboard. Calculate the amount of bycatch (in mT) that is in the catch in the bycatch area below and transfer to this field
<b>TOTAL TUNA CATCH</b>	Subtract the total amount of bycatch from the TOTAL CATCH to get TOTAL TUNA CATCH. This includes all tuna caught whether or not it is later discarded. It does not include tuna that escaped <b>alive</b> from net.

<b>OBSERVER'S BREAKDOWN of TOTAL TUNA CAUGHT</b>	<b>YES or NO</b>	YES' or NO' <b>must</b> be circled to show if SKJ, small YFT, large YFT, small BET, large BET were even seen in the catch
<b>%</b>		Carefully eye-estimate the <b>percentage of the TOTAL TUNA</b> for each species (+ each size category for YFT and BET) N.B.: % of small (or large) YFT (or BET) is the % of <b>TOTAL TUNA</b> ! NOT % of that species of tuna.
<b>Number</b>		If there are not many large YFT or BET and good estimate of number can be made record number of large YFT (or BET) If a <b>good</b> estimate (counts) is not easy, dash the 'number' field. <b>Do not</b> make a rough estimate !

<b>SET CATCH DETAILS</b>	<b>BY-CATCH SPECIES CODE</b>	Record every species that lands on deck with the three letter FAO species code.
	<b>FATE CODE</b>	Use fate codes provided to say what happened to each species landed Use 1 line per species/fate group. Remember that a species may be split into groups each with a different fate code. Eg: RRU RWW 2 mT <b>REMEMBER</b> - use only one (the best and most informative) code for each line. RRU DTS 0.5 mT <b>NEW 2014:</b> Use the SSI FATE CODES FOR ALL SHARKS to indicate 'live' status. Use 'RFR' / 'DFR' in comments if finning observed).
	<b>OBSERVER (mT)</b>	Calculate the amount of each species caught, in each fate code category, using an appropriate assessment technique. Use mT. For instance if 300 kg of Mahi mahi and 40 kg of wahoo were caught - record 0.3 mt DOL /0.04 mt WAH
	<b>Number</b>	Only record a number if an accurate count is possible. Large amounts are recorded in "mT". If possible record both.
	<b>VESSEL LOG (mT)</b>	Copy the figures recorded by the ship's officers on the Vessel Logsheet, for this set.
	<b>Number</b>	Place a dash in the column if they have not recorded the species.
<b>Total weight of bycatch</b>	Calculate from the fields above for observer (important for use in 'Total Tuna' calculation) and vessel bycatch estimates	

<b>TAGS</b>	<b>TARGET TUNA</b>	
	<b>A. OBSERVER estimates of total caught</b>	Calculate the combined large and small <b>% x Total tuna catch</b> for each species (SKJ, YFT and BET)
	<b>FATE</b>	Record fate of discarded tuna or tuna retained for crew consumption (RCC), using fate codes listed at bottom of form
	<b>OBS (mT)</b>	Give a careful approximation (eye-estimate) of the total amount of catch for the relevant fate /species code combination. Record the amounts in metric tonnes.
	<b>VES (mT)</b>	Copy the weight, as recorded for each species in the vessel's logsheet. If nothing is recorded in the logsheet place a dash in the data field. If "0" is recorded on the logsheet record "0" here. <b>Record in metric tonnes.</b> Eg.: If amount on logsheet is in short tons this <b>MUST</b> be converted to metric tonnes.
	<b>B. OBSERVER totals (mT) discards + RCC</b>	For each species add together the mT amounts that are recorded in the rows 'a.', 'b.' and 'c' to get the total of all the discarded and the retained for crew consumption (RCC) combined for that species.
	<b>Tuna kept onboard for later unload</b>	Usually tuna are retained whole weight (RWW). If so then RWW can be calculated as (A. - B.) for each species. If tuna is otherwise retained onboard for later unload (fate = R??) then A. - B. = the combined total of RWW + R??
	<b>Due to gear break / bycatch mitigation</b>	ESC Best observer estimate of mT of any live tuna that escaped during set. Refer to Captain for any tuna seen escaping via sonar. Include any live tuna escaped from gear breakage or because vessel tries to release important bycatch. N.B. This does not include dead tuna that are released from the net after a breakdown during or after net sac-up = discards.
	<b>How many tags were recovered? species and tag numbers</b>	Note the number of tags found from in this set. Look out for tags on tuna, billfish, sharks, turtles, birds, etc. Record <b>tag number</b> and <b>species</b> . Note tag colour, tagging organisation and any unusual features about condition. Fill these and other tag details into the tag recovery form (and GEN-2 form if necessary).

# SPC/FFA REGIONAL PURSE SEINE OBSERVER SET DETAILS

**FORM PS - 3**

REV. MAR. 2014

OBSERVER NAME	VESSEL NAME	PAGE _____ OF _____ (SET No.)
OBSERVER TRIP I.D. NUMBER	START OF SET DATE AND TIME OBSERVER: YY MM DD hh mm (see PS-2)	START OF SET DATE AND TIME VESSEL LOG: YY MM DD hh mm

SET SEQUENCE TIMES						
EVENT:	START OF SET (SKIFF OFF)	BEGIN PURSING (WINCH ON)	END PURSING (RINGS UP)	BEGIN BRAILING	END OF BRAILING / SACK ONBOARD	END OF SET (NEXT ACTIVITY START)
TIME:						

SET CATCH DETAILS													
OBSERVER'S BREAKDOWN OF TOTAL TUNA CAUGHT <small>- circle YES or NO for each species</small>										N.B.: these calculations include all the tuna in this catch, whether retained or discarded			
<b>brail capacity</b> ( <input type="text"/> mT x <input type="text"/> ) = <input type="text"/> mT <small>Type 1 brail (see PS-1 form)</small>		<b>sum of all brails</b> ( <input type="text"/> mT x <input type="text"/> ) + <input type="text"/> mT <small>(see PS-4 form)</small>		<b>Total catch</b> less bycatch (see below) = <input type="text"/> mT = <b>Total tuna catch</b> <input type="text"/> mT		=>		<b>SKIP-JACK</b> YES (%) NO YES (%) NO		<b>YELLOWFIN</b> SMALL (< 75 cm) LARGE (> 75 cm) YES (%) YES (%) NO NUMBER YES (%) YES (%) NO		<b>BIGEYE</b> SMALL (< 75 cm) LARGE (> 75 cm) YES (%) YES (%) YES (%) YES (%) NUMBER YES (%) YES (%) YES (%) YES (%) NUMBER	

BY-CATCH (ALL NON-TARGET SPECIES)					TARGET TUNA					
SPECIES CODE	FATE CODE	OBSERVER No. (mT)	VESSEL LOG No. (mT)	COMMENTS	A. OBSERVER estimates of total of each species caught (mT)			SKJ	YFT	BET
						Observer	FATE			
						Observer	a. (mT)			
						Vessel	FATE			
						Vessel	(mT)			
						Observer	FATE			
						Observer	b. (mT)			
						Vessel	FATE			
						Vessel	(mT)			
						Observer	FATE			
						Observer	c. (mT)			
						Vessel	FATE			
						Vessel	(mT)			
Total weight of bycatch: _____ mT					B. OBSERVER totals (mT) discards + RCC (a+b+c): _____					
Comments						Tuna kept onboard for later unload if not RWW	FATE			
							OBS (mT)			
						Tuna kept onboard for later unload if not RWW	VES (mT)			
							FATE	RWW	RWW	RWW
						Tuna kept onboard for later unload if not RWW	OBS (mT)			
							VES (mT)			
						Due to gear break / bycatch mitigation	ESC	ESC	ESC	
							estimates	OBS (mT)		
<b>TAGS - How many Tags were recovered?</b>							VES (mT)			
							estimates	VES (mT)		

FATE CODES			
RWW	Retained - whole weight	DFR	Discarded trunk - fins retained (shark only)
RHG	Retained - headed and gutted (billfish only)	DTS	Discarded - too small (tuna only)
RGG	Retained - gilled and gutted (kept for sale)	DGD	Discarded - gear damage (tuna only)
RPT	Retained - partial (e.g. fillet, loin)	DVF	Discarded - vessel fully loaded
RCC	Retained - crew consumption (onboard)	DUS	Discarded - unwanted species
ROR	Retained - other reason (specify)	DSD	Discarded - shark damage
RFR	Retained trunk - fins retained (shark only)	DWD	Discarded - whale damage
DPA	Discarded SSI - alive	DPA	
DPD	(species of special interest) - dead	DPD	
DPU	- unknown condition	DPU	
DPQ	Discarded - poor quality		
DOR	Discarded - other reasons (specify)		
ESC	= Escaped		

(A PS-3 form **must** be filled out for the first and every set (recorded as *activity code 1* on PS-2) - whether monitored or not, even if a skunk set.) (For the very rare occasion that a set is not monitored the column for the vessel's estimate of catch must still be completed.) (N.B.: A PS-4 form is not required for skunk set.)

<b>OBSERVER NAME</b>	Print first name first and last name last. Eg.: "John Smith" not "Smith John". Print clearly !
<b>VESSEL NAME</b>	Full unabbreviated name. Eg.: a boat with name "Captain Paul Catchit" should not be abbreviated to Capt. P.Catchit.
<b>PAGE OF</b>	Number each PS-3 form from start until end of trip. Because one PS-3 is used for every set this is also the set No.
<b>OBSERVER TRIP ID No.</b>	This number is the same on all forms for a single observer trip.
<b>START of SET</b> Observer (PS-2)	The exact date and time that the observer recorded for this set on the PS-2. Record as year/month/day.
<b>DATE and TIME</b> Vessel (logsheet)	The exact date and time that the vessel has recorded for this set on their PS Log Sheet. Record as year/month/date.

<b>SET SEQUENCE</b>	<b>BEGIN SET (S KIFF OFF)</b>	Exact same time as recorded on the daily log (PS-2) and in the "Observer Start of Set Date and Time" section, above.
	<b>BEGIN PURSING (WINCH ON)</b>	The purse wire will be thrown to the vessel from the skiff, and it will then be attached to the winch. Record the time the winch is switched on.
	<b>END PURSING (RINGS UP)</b>	During the winching, a bunch of rings will come on board. Record the time when the last of the rings appears. This indicates the net has totally enclosed (pursed) the fish and they cannot escape.
	<b>BEGIN BRAILING</b>	Record the time the vessel starts the brailing process. This will have been recorded on the PS-4 form. If there was no brailing just record a dash
	<b>END BRAILING / SACK ONBOARD</b>	Record the time when the vessel finishes brailing. If there was no brailing record the time that the sack was lifted up on to the deck.
	<b>END SET (NEXT ACTIVITY START)</b>	Next activity START marks end of set (no later than 'skiff comes on board'). Record the activity change on PS-2.

<b>TOTAL CATCH and TOTAL TUNA CATCH</b>	
<b>Brail Capacity</b>	Find on the PS-1. Use to calculate total catch. <b>'Brail capacity' x 'Sum of all brails' = 'TOTAL CATCH'</b>
<b>Sum of all brails</b>	After calculating the total number of brails on the PS-4 form (for the same set) transfer your answer here.
Type 1 and Type 2 brails	... if a 2nd brail type is also used for this set samples, estimates of the brail capacity for both brail types must be made. Fill the 'brail capacity' and the 'sum of all brail' fields for both the 'type 1' and the 'type 2' brails. Add calculations of total catch from each brail type together to get a single "TOTAL CATCH" figure. (If there is no 'type 2' brail (which is normal) then simply record a dash in each of the 'type 2' fields and all other calculations will be based only on the 'type 1' brail information that is provided.)
<b>TOTAL CATCH less bycatch</b>	This is the combined weight of all the (target and bycatch species) fish brought onboard. Calculate the amount of bycatch (in mT) that is in the catch in the bycatch area below and transfer to this field
<b>TOTAL TUNA CATCH</b>	Subtract the total amount of bycatch from the TOTAL CATCH to get TOTAL TUNA CATCH. This includes all tuna caught whether or not it is later discarded. It does not include tuna that escaped <b>alive</b> from net.

<b>OBSERVER'S BREAKDOWN of TOTAL TUNA CAUGHT</b>	<b>YES or NO</b>	YES' or NO' <b>must</b> be circled to show if SKJ, small YFT, large YFT, small BET, large BET were even seen in the catch
<b>%</b>		Carefully eye-estimate the <b>percentage of the TOTAL TUNA</b> for each species (+ each size category for YFT and BET) N.B.: % of small (or large) YFT (or BET) is the % of <b>TOTAL TUNA</b> ! NOT % of that species of tuna.
<b>Number</b>		If there are not many large YFT or BET and good estimate of number can be made record number of large YFT (or BET) If a <b>good</b> estimate (counts) is not easy, dash the 'number' field. <b>Do not</b> make a rough estimate !

<b>SET CATCH DETAILS</b>	<b>BY-CATCH SPECIES CODE</b>	Record every species that lands on deck with the three letter FAO species code.
	<b>FATE CODE</b>	Use fate codes provided to say what happened to each species landed Use 1 line per species/fate group. Remember that a species may be split into groups each with a different fate code. Eg: RRU RWW 2 mT <b>REMEMBER</b> - use only one (the best and most informative) code for each line. RRU DTS 0.5 mT <b>NEW 2014:</b> Use the SSI FATE CODES FOR ALL SHARKS to indicate 'live' status. Use 'RFR' / 'DFR' in comments if finning observed).
	<b>OBSERVER (mT)</b>	Calculate the amount of each species caught, in each fate code category, using an appropriate assessment technique. Use mT. For instance if 300 kg of Mahi mahi and 40 kg of wahoo were caught - record 0.3 mt DOL /0.04 mt WAH
	<b>Number</b>	Only record a number if an accurate count is possible. Large amounts are recorded in "mT". If possible record both.
	<b>VESSEL LOG (mT)</b>	Copy the figures recorded by the ship's officers on the Vessel Logsheet, for this set.
	<b>Number</b>	Place a dash in the column if they have not recorded the species.
<b>Total weight of bycatch</b>	Calculate from the fields above for observer (important for use in 'Total Tuna' calculation) and vessel bycatch estimates	

<b>TAGS</b>	<b>TARGET TUNA</b>	
	<b>A. OBSERVER estimates of total caught</b>	Calculate the combined large and small <b>% x Total tuna catch</b> for each species (SKJ, YFT and BET)
	<b>FATE</b>	Record fate of discarded tuna or tuna retained for crew consumption (RCC), using fate codes listed at bottom of form
	<b>OBS (mT)</b>	Give a careful approximation (eye-estimate) of the total amount of catch for the relevant fate /species code combination. Record the amounts in metric tonnes.
	<b>VES (mT)</b>	Copy the weight, as recorded for each species in the vessel's logsheet. If nothing is recorded in the logsheet place a dash in the data field. If "0" is recorded on the logsheet record "0" here. <b>Record in metric tonnes.</b> Eg.: If amount on logsheet is in short tons this <b>MUST</b> be converted to metric tonnes.
	<b>B. OBSERVER totals (mT) discards + RCC</b>	For each species add together the mT amounts that are recorded in the rows 'a.', 'b.' and 'c' to get the total of all the discarded and the retained for crew consumption (RCC) combined for that species.
	<b>Tuna kept onboard for later unload</b>	Usually tuna are retained whole weight (RWW). If so then RWW can be calculated as (A. - B.) for each species. If tuna is otherwise retained onboard for later unload (fate = R??) then A. - B. = the combined total of RWW + R??
	<b>Due to gear break / bycatch mitigation</b>	ESC Best observer estimate of mT of any live tuna that escaped during set. Refer to Captain for any tuna seen escaping via sonar. Include any live tuna escaped from gear breakage or because vessel tries to release important bycatch. N.B. This does not include dead tuna that are released from the net after a breakdown during or after net sac-up = discards.
	<b>How many tags were recovered? species and tag numbers</b>	Note the number of tags found from in this set. Look out for tags on tuna, billfish, sharks, turtles, birds, etc. Record <b>tag number</b> and <b>species</b> . Note tag colour, tagging organisation and any unusual features about condition. Fill these and other tag details into the tag recovery form (and GEN-2 form if necessary).

**SPC/FFA REGIONAL PURSE SEINE OBSERVER  
WELL TRANSFER RECONCILIATION FORM**

**FORM PS - 5**

REVISED MAR. 2014

VESSEL NAME	OBSERVER NAME	OBSERVER TRIP ID	PAGE OF
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DATE	TIME	WELL ACTIVITY CODE	SOURCE	DESTINATION	METRIC TONNES MOVED	VESSEL CHANGE ? (+ / - / 0)	NEW CUMULATIVE TOTAL	RECORDED ON LOGSHEET ? Y / N	COMMENT

WELL ACTIVITY CODES	SOURCE	DESTINATION	VESSEL CHANGE ?
FS Received as desired catch from a set on this vessel	"NET"	<well no.>	+
CR Retained from a set solely because of catch-retention rules	"NET"	<well no.>	+
WT Transferred between wells	<well no.>	<well no.>	0
UL Unloaded to cannery or cool store	<well no.>	"SHORE"	-
TR Received into well from another vessel's hold	<vessel name>	<well no.>	+
TG Given from well to another vessel's hold	<well no.>	<vessel name>	-
SR Received into well from another vessels net	<vessel name>	<well no.>	+
DC Discarded into the sea from Well due to spoilage, etc.	<well no.>	"DISC."	-

<b>CR &lt;well no.&gt;s</b>	Record ALL CATCH in metric tonnes. Use whole numbers (e.g.: 25 ).
	Calculate the "NEW CUMULATIVE TOTAL" by adding or subtracting ( see the "VESSEL CHANGE ?" value for '+' or '-' ) to or from the previous "cumulative total" ( on the previous line). This is tonnage that has been 'added to' or 'removed from' the vessel.

**SPC/FFA REGIONAL PURSE SEINE OBSERVER  
WELL TRANSFER RECONCILIATION FORM**

**FORM PS - 5**

REVISED MAR. 2014

VESSEL NAME	OBSERVER NAME	OBSERVER TRIP ID	PAGE OF
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DATE	TIME	WELL ACTIVITY (CODE)	SOURCE	DESTINATION	METRIC TONNES MOVED	VESSEL CHANGE ? (+ / - / 0)	NEW CUMULATIVE TOTAL	RECORDED ON LOGSHEET? Y / N	COMMENT

<b>Date:</b>	Record the date that the fish was transferred on. Use ship's time.
<b>Time</b>	Record the time the fish were transferred. Use ship's time.
<b>Well activity code:</b>	Use <b>Well Activity</b> codes at bottom of this page to show types of fish transfer that took place. The well activity codes explain where the fish came from and where they were transferred to. This might include fish that were not loaded into your vessel's well, but were transferred directly from the brailer to another boat.
<b>Source:</b>	The source indicates where the fish has come from. The source code is related to the well activity code that you have recorded. An explanation of the source information that should be recorded is outlined to the right of the well activity code you have used. NET: The fish has come from the net. Record 'NET'. WELL NO.: The fish has come from a well. Record the well number here. VESSEL NAME: The fish has come from a vessel. Record vessel's full name here, including numbers, etc.
<b>Destination:</b>	The destination indicates where the fish were transferred to. The destination is also related to the well activity code that has been recorded. The type of destination information required is outlined on the bottom of this form - on the same line and to the right of the related ' well
<b>Vessel Change?</b>	Use the symbol provided to indicate if they were more or less fish on your vessel after the fish transfer. See further explanations below. You do not have to state the amount. ( + ) indicates a positive change - there are more fish on your vessel after the fish transfer. ( - ) indicates a negative change - there are less fish on your vessel after the fish transfer.
<b>New Cumulative Total</b>	Record the vessel's new 'onboard' total or 'cumulative' total here. The figure should be consistent with the amounts you have recorded to date.
<b>Recorded on logsheet? Y/ N</b>	Check the vessel's logsheet to see if they have recorded the fish transfer clearly on the logsheet. Record Y for yes and N for no.

**Examples**

10/10/11	11.25	FS	NET	P5	30	+	30	Y	From set, on logsheet
11/10/11	15.20	FS	NET	P1	35	+	65	Y	See PS-3 form
11/10/11	15.20	FS	NET	P2	30	+	95	Y	See PS-3 form
11/10/11	15.20	FS	NET	S3	15	+	110	Y	See PS-3 form
15/10/11	22.20	WT	P1	S1	30	0	110	N	Not observed, see jnl page 52
16/10/11	08.10	TR	Yasu# 2	S7	40	+	150	N	See journal page 58
18/10/11	15.45	TG	S1	Ying#9	30	-	120	N	See journal page 62
19/10/11	11.25	FS	NET	P7	35	+	155	N	From set, not on logsheet
20/10/11	18.05	SR	Yasu# 8	P2	20	+	175	N	

WELL ACTIVITY CODES	SOURCE	DESTINATION	VESSEL CHANGE ?
FS Received from a set on this vessel	"NET"	<well no.>	+
CR Retained from a set solely because of catch-retention rules	"NET"	<well no.>	+
WT Transferred between wells	<well no.>	<well no.>	0
UL Unloaded to cannery or cool store	<well no.>	"SHORE"	-
TR Received into well from another vessel	<vessel name>	<well no.>	+
TG Given from well to another vessel's hold	<well no.>	<vessel name>	-
SR Received into well from another vessels net	<vessel name>	<well no.>	+
DC Discarded into the sea from Well due to spoilage, etc.	<well no.>	"DISC."	-

<b>CR &lt;well no.&gt;s</b>	<b>CR &lt;well no.&gt;s</b> are wells used by a vessel to collect fish that would have been discarded if there was no WCPFC catch retention CMM. These <well no.>s will be the DESTINATION <well no.>s when WELL ACTIVITY CODE = CR is used. They may also be used with WELL ACTIVITY CODE = WT, if small fish are sorted from other (mixed sized fish) wells and into these wells. CR <well no.>s may also be used it as SOURCE <well no.>s if fish are being removed from these wells during other Well Activities.
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**SPC/FFA REGIONAL PURSE SEINE OBSERVER  
WELL TRANSFER RECONCILIATION FORM**

**FORM PS - 5**

REVISED MAR. 2014

VESSEL NAME	OBSERVER NAME	OBSERVER TRIP ID	PAGE OF
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DATE	TIME	WELL ACTIVITY (CODE)	SOURCE	DESTINATION	METRIC TONNES MOVED	VESSEL CHANGE ? (+ / - / 0)	NEW CUMULATIVE TOTAL	RECORDED ON LOGSHEET? Y / N	COMMENT

<b>Date:</b>	Record the date that the fish was transferred on. Use ship's time.
<b>Time</b>	Record the time the fish were transferred. Use ship's time.
<b>Well activity code:</b>	Use <b>Well Activity</b> codes at bottom of this page to show types of fish transfer that took place. The well activity codes explain where the fish came from and where they were transferred to. This might include fish that were not loaded into your vessel's well, but were transferred directly from the brailer to another boat.
<b>Source:</b>	The source indicates where the fish has come from. The source code is related to the well activity code that you have recorded. An explanation of the source information that should be recorded is outlined to the right of the well activity code you have used. NET: The fish has come from the net. Record 'NET'. WELL NO.: The fish has come from a well. Record the well number here. VESSEL NAME: The fish has come from a vessel. Record vessel's full name here, including numbers, etc.
<b>Destination:</b>	The destination indicates where the fish were transferred to. The destination is also related to the well activity code that has been recorded. The type of destination information required is outlined on the bottom of this form - on the same line and to the right of the related ' well
<b>Vessel Change?</b>	Use the symbol provided to indicate if they were more or less fish on your vessel after the fish transfer. See further explanations below. You do not have to state the amount. ( + ) indicates a positive change - there are more fish on your vessel after the fish transfer. ( - ) indicates a negative change - there are less fish on your vessel after the fish transfer.
<b>New Cumulative Total</b>	Record the vessel's new 'onboard' total or 'cumulative' total here. The figure should be consistent with the amounts you have recorded to date.
<b>Recorded on logsheet? Y / N</b>	Check the vessel's logsheet to see if they have recorded the fish transfer clearly on the logsheet. Record Y for yes and N for no.

**Examples**

10/10/11	11.25	FS	NET	P5	30	+	30	Y	From set, on logsheet
11/10/11	15.20	FS	NET	P1	35	+	65	Y	See PS-3 form
11/10/11	15.20	FS	NET	P2	30	+	95	Y	See PS-3 form
11/10/11	15.20	FS	NET	S3	15	+	110	Y	See PS-3 form
15/10/11	22.20	WT	P1	S1	30	0	110	N	Not observed, see jnl page 52
16/10/11	08.10	TR	Yasu# 2	S7	40	+	150	N	See journal page 58
18/10/11	15.45	TG	S1	Ying#9	30	-	120	N	See journal page 62
19/10/11	11.25	FS	NET	P7	35	+	155	N	From set, not on logsheet
20/10/11	18.05	SR	Yasu# 8	P2	20	+	175	N	

WELL ACTIVITY CODES	SOURCE	DESTINATION	VESSEL CHANGE ?
FS Received from a set on this vessel	"NET"	<well no.>	+
CR Retained from a set solely because of catch-retention rules	"NET"	<well no.>	+
WT Transferred between wells	<well no.>	<well no.>	0
UL Unloaded to cannery or cool store	<well no.>	"SHORE"	-
TR Received into well from another vessel	<vessel name>	<well no.>	+
TG Given from well to another vessel's hold	<well no.>	<vessel name>	-
SR Received into well from another vessel's net	<vessel name>	<well no.>	+
DC Discarded into the sea from Well due to spoilage, etc.	<well no.>	"DISC."	-

<b>CR &lt;well no.&gt;s</b>	<b>CR &lt;well no.&gt;s</b> are wells used by a vessel to collect fish that would have been discarded if there was no WCPFC catch retention CMM. These <well no.>s will be the DESTINATION <well no.>s when WELL ACTIVITY CODE = CR is used. They may also be used with WELL ACTIVITY CODE = WT, if small fish are sorted from other (mixed sized fish) wells and into these wells. CR <well no.>s may also be used it as SOURCE <well no.>s if fish are being removed from these wells during other Well Activities.
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## PURSE-SEINE CODE PAGE

ISO (alpha 2) Country Codes	SSI	ALL SPECIES OF SPECIAL INTEREST
AS	American Samoa	<b>TTX</b> <b>All Turtles</b>
AU	Australia	TTL     Loggerhead Turtle
BZ	Belize	LTB     Leatherback Turtle
CK	Cook Islands	TUG     Green Turtle
CA	Canada	LKV     Olive Ridley Turtle
EC	Ecuador	TTH     Hawksbill Turtle
SV	El Savador	KEZ     Eastern Pacific Green Turtle (black turtle)
FM	Fed. States of Micronesia	FBT     Flatback turtle
FJ	Fiji Islands	<b>SHK</b> <b>All Sharks</b>
FR	France	RHN     Whale Shark
PF	French Polynesia	OCS     Oceanic White-tip Shark
GU	Guam	FAL     Silky Shark
ID	Indonesia	<b>BIZ</b> <b>All Birds</b>
IW	International Waters	DKN     Black-footed albatross
JP	Japan	DIZ     Laysan albatross
TO	Kingdom of Tonga	ALZ     Albatrosses
KI	Kiribati	SZV     Boobies and Gannets
KR	Korea	PRX     Petrels and Shearwaters
LT	Lituania	LRD     Gulls, Terns, Skuas
CN	Mainland China	<b>MAM</b> <b>All Marine Mammals</b>
MY	Malaysia	<b>ODN</b> <b>Toothed Whales</b>
MT	Malta	FAW     False Killer Whale
MH	Marshall Islands	SHW     Short-Finned Pilot Whale
NR	Nauru	SPW     Sperm Whale
NL	Netherlands	KPW     Pygmy Killer Whale
NZ	New Zealand	DWW     Dwarf sperm whale
NC	New Caledonia	BCW     Cuvier's Beaked Whale
NU	Niue	BBW     Blainville's Beaked Whale
MR	Nothern Mariana	MEW     Melon-headed Whale
PW	Palau	<b>MYS</b> <b>All Baleen Whales</b>
PA	Panama	BLW     Blue whale
PG	Papua New Guinea	FIW     Fin whale
PH	Philippines	SIW     Sei whale
RU	Russia	BRW     Bryde's whale
SB	Solomons Islands	MIW     Minke whale
TW	Chinese Taipei (Taiwan)	HUW     Humpback whale
TK	Tokelau	<b>DLP</b> <b>All Dolphins</b>
US	United States	DBO     Bottlenose Dolphin
VU	Vanuatu	DCO     Common Dolphin (short-beaked)
WF	Wallis and Futuna	DRR     Risso's Dolphin
WS	Samoa	DSI     Spinner Dolphin
		DPN     Spotted Dolphin
		DST     Stiped Dolphin
		RTD     Rough-toothed Dolphin

### Origin of FAD

- 1 Your vessel's deployed this trip
- 2 Your vessel's deployed previous trip
- 3 Other vessel's (owner consent)
- 4 Other vessel's (no owner's consent)
- 5 Other vessel's (consent unknown)
- 6 Drifting and found by your vessel
- 7 Deployed by FAD auxiliary vessel
- 8 Origin unknown
- 9 Other origin - *(please specify)*

### Floating Object

"as found" or "as left"

- 1 Man made object (Drifting FAD)
- 2 Man made object (Non FAD)
- 3 Tree or log (natural, free floating)
- 4 Tree or log (converted into FAD)
- 5 Debris (flotsam bunched together)
- 6 Dead Animal (specify i.e. whale horse etc.)
- 7 Anchored Raft, FAD, or Payout
- 8 Anchored Tree or Logs
- 9 Other (please specify)
- 10 Man made object (Drifting FAD) - changed

### FAD MATERIALS

#### Main Materials

- 1 Logs, trees or debris tied together
- 2 Timber / planks / pallets / spools
- 3 PVC or Plastic tubing
- 4 Plastic drums
- 5 Plastic sheeting
- 6 Metal drums (i.e. 44 gal)
- 7 Philippines design drum FAD
- 8 Bamboo / Cane
- 9 Floats / Corks
- 10 Unknown (describe)

### FAD MATERIALS

#### FAD Attachments

- 11 Chain, cable rings, weights
- 12 Cord / rope
- 13 Netting hanging underneath FAD
- 14 Bait containers
- 15 Sacking / bagging
- 16 Coconut fronds / tree branches
- 17 Other (describe)

SPC/FFA REGIONAL OBSERVER  
VESSEL AND AIRCRAFT SIGHTINGS / FISH, BUNKERING and OTHER TRANSFERS LOGS

REV. MAR. 2014

OBSERVER NAME \_\_\_\_\_ VESSEL NAME \_\_\_\_\_ OBSERVER TRIP ID NUMBER \_\_\_\_\_ PAGE \_\_\_\_\_ OF \_\_\_\_\_

**VESSEL OR AIRCRAFT SIGHTINGS**

SHIP'S TIME		OBSERVER'S VESSEL POSITION				SIGHTED VESSEL OR AIRCRAFT				COMPASS BEARING (degrees)	DISTANCE (Nautical Miles)	ACTION CODE (seen vess)	PHOTO FRAME #	COMMENTS
DATE (MMDD)	TIME (hh mm)	LATITUDE (dd° mm.mmm')	N	LONGITUDE (ddd° mm.mmm')	E	W	NAME	INTERNATIONAL CALLSIGN	FLAG					
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 (host/vess)	COMMENTS
DATE (MMDD)	TIME (hh mm)	LATITUDE (dd° mm.mmm')	N	LONGITUDE (ddd° mm.mmm')	E	W	NAME	INTERNATIONAL CALLSIGN	FLAG	TYPE CODE	SKJ WGT. NO.	YFT WGT. NO.	BET WGT. NO.		
1															
2															
3															

**VESSEL AND AIRCRAFT TYPE CODES:**  
 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: .....

**FLAG COUNTRY CODES**  
 • IF COUNTRY IS NOT IN LIST WRITE NAME OF COUNTRY  
 CN CHINA  
 JP JAPAN  
 TW TAIWAN  
 KR KOREA  
 US USA  
 PH PHILIPPINES  
 PA PANAMA  
 HN HONDURAS  
 BZ BELIZE  
 RU RUSSIA  
 SG SINGAPORE  
 LK SRI LANKA  
 VU VANUATU

**ACTION CODES**  
 • FISHING INCLUDES ANY FISHING RELATED ACTIVITY NOT OTHERWISE COVERED HERE  
**RECEIVING**  
 FI FISHING  
 PF POSSIBLY FISHING  
 NF NOT FISHING  
 DF DUMPING FISH  
**GIVING**  
 TR TRANS SHIPPING FISH  
 SR SET SHARING  
 BR BUNKERING  
 TG TRANS SHIPPING 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  
 OR OTHER ..specify....

**ALL WEIGHTS MUST BE METRIC TONNES**

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.
	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 describes 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> TR, TG - transferring fish between vessel holds <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> 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.



**FORM GEN - 1**  
**SPC/FFA REGIONAL OBSERVER**  
**VESSEL AND AIRCRAFT SIGHTINGS / FISH, BUNKERING and OTHER TRANSFERS LOGS**

REV. MAR. 2014  
 OBSERVER NAME \_\_\_\_\_ VESSEL NAME \_\_\_\_\_ OBSERVER TRIP ID NUMBER \_\_\_\_\_ PAGE \_\_\_\_\_ OF \_\_\_\_\_

**VESSEL OR AIRCRAFT SIGHTINGS**

SHIP'S TIME	OBSERVER'S VESSEL POSITION		SIGHTED VESSEL OR AIRCRAFT		COMPASS BEARING (degrees)	DISTANCE (Nautical Miles)	ACTION CODE (seen vess)	PHOTO FRAME #	COMMENTS
	DATE (MMDD)	LATITUDE (dd° mm.mmm')	LONGITUDE (ddd° mm.mmm')	NAME					
1									
2									
3									
4									
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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 (host/vess)	COMMENTS					
	DATE (MMDD)	LATITUDE (dd° mm.mmm')	LONGITUDE (ddd° mm.mmm')	NAME	INTERNATIONAL CALLSIGN	FLAG	TYPE CODE			SKJ WGT. NO.	YFT WGT. NO.	BET WGT. NO.		
1														
2														
3														

**VESSEL AND AIRCRAFT TYPE CODES**

1 SINGLE PURSE SEINE	8 SEARCH, ANCHOR OR LIGHT BOAT
2 LONGLINE	9 FISH CARRIER
3 POLE AND LINE	10 TRAWLER
4 MOTHERSHIP	21 LIGHT AIRCRAFT
5 TROLL	22 HELICOPTER
6 NETBOAT	31 OTHER - please specify: .....
7 BUNKER	

**FLAG COUNTRY CODES**

• IF COUNTRY IS NOT IN LIST WRITE NAME OF COUNTRY

CN CHINA	US USA	BZ BELIZE
JP JAPAN	PH PHILIPPINES	RU RUSSIA
TW TAIWAN	PA PANAMA	SG SINGAPORE
KR KOREA	HN HONDURAS	LK SRILANKA
	VU VANUATU	

**ACTION CODES**

• FISHING INCLUDES ANY FISHING RELATED ACTIVITY NOT OTHERWISE COVERED HERE

FI FISHING	TR TRANS SHIPPING FISH	TG TRANS SHIPPING FISH .... (from hold in one boat to hold in other)
PF POSSIBLY FISHING	SR SET SHARING	SG SET SHARING ..... (from one boat's net to another boat's hold)
NF NOT FISHING	BR BUNKERING	BG BUNKERING
DF DUMPING FISH	OR OTHER .specify...	OG OTHER

**ALL WEIGHTS MUST BE METRIC TONNES**

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.
	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 describes 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> TR, TG - transferring fish between vessel holds  <i>Use the "?R" codes if host vessel is receiving fish or items from another vessel.</i> 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.  <i>Use the "?G" codes if the host vessel is giving fish or items to another vessel</i> 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.





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

**FORM GEN - 2**

REVISED MAR. 2014

OBSERVER NAME	VESSEL NAME	OBSERVER TRIP ID NUMBER	PAGE OF
---------------	-------------	-------------------------	---------

SPECIES CODE	SPECIES DESCRIPTION
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**THE SPECIES WAS: Tick to indicate the final encounter of the species with the vessel:**

SIGHTED ONLY:  INTERACTED WITH THE VESSEL'S GEAR ONLY:  LANDED ON DECK:

TIME OF FIRST OBSERVER SIGHTING	hh: mm	SHIP'S DATE AND TIME	LATITUDE (dd°mm.mmm')	N S	LONGITUDE (ddd°mm.mmm')	E W
DETAILS OF THE FINAL ENCOUNTER (for any landing see PS-2, PL-2, LL-4)		YY MM DD hh mm				

**DID THE OBSERVER SIGHT THE SPECIES OF SPECIAL INTEREST BEFORE THE SET?** (circle one) **Yes / No / No Set**

**SPECIES LANDED ON DECK:**

<b>CONDITION LANDED:</b>	CONDITION CODE	CONDITION DESCRIPTION
<b>CONDITION DISCARDED</b>	CONDITION CODE	CONDITION DESCRIPTION
DESCRIBE INTERACTION / TREATMENT / RELEASE		LENGTH (cm)
		LENGTH CODE
		SEX (M-F-I-U)

TAGS	RETRIEVED			PLACED		
	TAG NUMBER	TYPE	ORGANISATION	TAG NUMBER	TYPE	ORGANISATION

**INTERACTIONS WITH VESSEL OR VESSEL GEAR:**

VESSEL ACTIVITY DURING INTERACTION: → SETTING  HAULING  SEARCHING  TRANSITING  OTHER (specify)

CONDITION	START of INTERACTION:			END of INTERACTION:		
	No.	Condition Code	CONDITION DESCRIPTION	No.	Condition Code	CONDITION DESCRIPTION

DESCRIBE INTERACTION and if relevant any TREATMENT / RELEASE

**SPECIES SIGHTED**

VESSEL ACTIVITY WHEN SIGHTED: → SETTING  HAULING  SEARCHING  TRANSITING  OTHER (specify)

NUMBER SIGHTED	NUMBER OF ADULTS	NUMBER OF JUVENILES	ESTIMATE THE OVERALL LENGTH(s) (From the head to the tail)
----------------	------------------	---------------------	--

DISTANCE FROM VESSEL	SPECIES BEHAVIOUR WHEN SIGHTED
m	

<b>Observer Name</b>	Print your name in full. First name first, then your family name (e.g "John Masa").
<b>Vessel Name</b>	Print the vessel's name in full. Do not use abbreviations.
<b>Observer Trip ID Number</b>	This is the number issued by your observer programme. It will be the same all trip.
<b>Page of</b>	Number all the GEN-2 forms together, in sequence. Continue until the trip is complete.
<b>Species Code</b>	Use the three-letter FAO species code.
<b>Species Description</b>	Use this field to describe some of the identifying features of the species. This may help us to correctly identify the species. Consider the colour, any distinctive markings, the shape of the head, fins, tail, the position of the blow hole and the place of the fins in relation to other body parts.
<b>Tick to indicate the FINAL encounter</b>	Tick one box only - to indicate the FINAL encounter the species of special interest had with the vessel. For instance, if you a marine mammal that was interacting with the vessel (swimming around the vessel) and it was subsequently landed, tick 'landed on deck'.
<b>Time of first observer sighting</b>	Note the time the observer FIRST noted the species of special interest.
<b>Details of the FINAL encounter</b> (for any landings see PS-2, PL-2 or LL-4)	Note the ship's date and time, and the position at the start of the final encounter. For instance, if the final encounter was an interaction mark the time, date and position of the start of the interaction. Otherwise record the details for when the observer first noted the SSI during the interaction. If the final encounter is landed on deck you must record the start of set ship's time from PS-2, PL-2 or the ship's time landed from the LL-4 form.
<b>Latitude / Longitude</b>	Note start of set position for species landed on deck. If a species was only sighted or only interacted with gear, note position the vessel was in when species was first seen.
<b>Did the Observer Sight the SSI before the set?</b>	Circle one of the choices. For instance, circle Yes to indicate that the observer saw the SSI before the set was made. This question is most relevant for PS vessels, but should be answered for all gears.

**SPECIES LANDED ON DECK:**

<b>USE THESE CONDITION CODES</b>	<b>A0</b> - Alive but unable to describe condition.	<i>Normally use one GEN-2 for every SSI landed, but if many animals are landed in a PS set use the GEN-2 supplement to record condition, length, and sex of up to 30; then use a PS-4 to record lengths if more than 30.</i>	
	<b>A1</b> - Alive and healthy.		
	<b>A2</b> - Alive, but injured or distressed.		
	<b>A3</b> - Alive, but unlikely to live.		
	<b>A4</b> - Entangled, okay.	<b>D</b> - Dead	<b>U</b> - Condition unknown.
	<b>A5</b> - Entangled, injured.	<b>D1</b> - Entangled, dead	<b>U1</b> - Entangled, unknown condition.
	<b>A6</b> - Hooked, externally, injured.	<b>D2</b> - Hooked, externally, dead.	<b>U2</b> - Hooked, externally, condition unknown.
	<b>A7</b> - Hooked, internally, injured.	<b>D3</b> - Hooked, internally, dead.	<b>U3</b> - Hooked, internally, condition unknown.
<b>A8</b> - Hooked, unknown, injured.	<b>D4</b> - Hooked, unknown, dead.	<b>U4</b> - Hooked, unknown, condition unknown.	

<b>Condition description</b>	Write a description of the condition of the species when landed / discarded. This may help to further assess the condition of the landed / discard species.
<b>Describe the Interaction/ treatment/ release</b>	Make detailed notes on the SSI from the moment it interacted with the boat to the point of its release. Continue the description in the journal and record page no. on the form. Refer to WCPFC RHS handling guidelines.
<b>Length / Length code</b>	Measure the species using an UF measurement for any m.mammals, sharks and a CL measurement for turtles.
<b>Sex (M-F-I-U)</b>	M - male, F - Female, I - Indeterminate (checked, but not clear), U - unknown (not checked).

**TAGS**

Record all details about any tags placed or found on the species here.

<b>Type of Tags</b>	Record if it was a common dart, an archival (stitched inside body), or a pop-up (stitched to the outside of the body) tag.
---------------------	--

**INTERACTIONS WITH VESSEL OR VESSEL GEAR:**

"Interactions" are when a SSI touches, or is directly affected by the presence of the catcher vessel, its gear, or tender vessel. Examples may include: whales/dolphins inside a purse seine net; dolphins riding vessel bow waves; pilot whales waiting near vessel or net to be fed, SSI's hooked on longlines but not landed. **Use one form per species per incident. If there are more than five SSI landed from any one set use the supplementary GEN-2 form.**

<b>Vessel's Activity</b>	Tick to indicate the vessel's activity when the interaction was first noted.
<b>Condition - No.</b>	Use <b>GEN-2 condition codes</b> , above, to describe how many of a species are in each condition, at start, and again at end, of the interaction with the vessel or vessel gear.
<b>- Code</b>	
<b>- Description</b>	Add any notes (words) that may help further define condition the SSI condition,. For instance, if it was am A2 condition you could mention that the SSI was 'Bleeding heavily' to clarify its condition
<b>DESCRIBE INTERACTION and if relevant any TREATMENT / RELEASE</b>	Make detailed notes on the interaction. If more space is needed use the observer's journal and mark the page number here.

**SPECIES SIGHTED:**

Sightings' refer to SSIs that, as far as an observer can tell, seem not to be directly affected by the vessel's presence. Usually such 'sightings' are at least 100m away. However, when so close, observe carefully for interaction behaviour.

<b>Vessel's Activity</b>	Tick to indicate the vessel's activity when the interaction was first noted.
<b>Number Sighted</b>	Record the total number of species sighted for this date and time.
<b>Number of Adults</b>	If more than one animal is involved, record the number of adults you can see.
<b>Number of Juveniles</b>	If you can see juveniles with the pod of whales or dolphins record the number here. Otherwise record all animals under "number of adults".
<b>Species Behaviour</b>	Describe the behaviour of the animal in the water. Use own words but some technical terms that may be helpful include: <i>wake riding</i> (swimming close behind boat); <i>bow riding</i> (swimming off the bow of the boat); <i>logging</i> (floating motionless in a group); <i>breaching</i> (launching themselves into the air head first and then falling back into the water with a splash); <i>lobtailing</i> (tail slapping); <i>playing</i> (having fun !); etc.
<b>Distance from Vessel (m)</b>	Estimate the distance the species was from the vessel.



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

**FORM GEN - 2**

REVISED MAR. 2014

OBSERVER NAME	VESSEL NAME	OBSERVER TRIP ID NUMBER	PAGE OF
---------------	-------------	-------------------------	---------

SPECIES CODE	SPECIES DESCRIPTION
--------------	---------------------

**THE SPECIES WAS: Tick to indicate the final encounter of the species with the vessel:**  
**SIGHTED ONLY:**  **INTERACTED WITH THE VESSEL'S GEAR ONLY:**  **LANDED ON DECK:**

TIME OF FIRST OBSERVER SIGHTING	hh: mm	SHIP'S DATE AND TIME	LATITUDE	N	LONGITUDE	E
		YY MM DD hh mm	(dd°mm.mmm')	S	(ddd°mm.mmm')	W
DETAILS OF THE FINAL ENCOUNTER (for any landing see PS-2, PL-2, LL-4)						

**DID THE OBSERVER SIGHT THE SPECIES OF SPECIAL INTEREST BEFORE THE SET?** (circle one) **Yes / No / No Set**

**SPECIES LANDED ON DECK:**

<b>CONDITION LANDED:</b>	CONDITION CODE	CONDITION DESCRIPTION
<b>CONDITION DISCARDED</b>	CONDITION CODE	CONDITION DESCRIPTION
DESCRIBE INTERACTION /TREATMENT /RELEASE		LENGTH (cm)
		LENGTH CODE
		SEX (M-F-I-U)

<b>TAGS</b>	<i>RETRIEVED</i>			<i>PLACED</i>		
	TAG NUMBER	TYPE	ORGANISATION	TAG NUMBER	TYPE	ORGANISATION

**INTERACTIONS WITH VESSEL OR VESSEL GEAR:**

VESSEL ACTIVITY DURING INTERACTION: → SETTING  HAULING  SEARCHING  TRANSITING  OTHER (specify)

<b>CONDITION START of INTERACTION:</b>	No.	Condition Code	CONDITION DESCRIPTION	<b>END of INTERACTION:</b>	No.	Condition Code	CONDITION DESCRIPTION

DESCRIBE INTERACTION and if relevant any TREATMENT /RELEASE

**SPECIES SIGHTED**

VESSEL ACTIVITY WHEN SIGHTED: → SETTING  HAULING  SEARCHING  TRANSITING  OTHER (specify)

NUMBER SIGHTED	NUMBER OF ADULTS	NUMBER OF JUVENILES	ESTIMATE THE OVERALL LENGTH(s) (From the head to the tail)
DISTANCE FROM VESSEL	SPECIES BEHAVIOUR WHEN SIGHTED		
m			

<b>Observer Name</b>	Print your name in full. First name first, then your family name (e.g "John Masa").
<b>Vessel Name</b>	Print the vessel's name in full. Do not use abbreviations.
<b>Observer Trip ID Number</b>	This is the number issued by your observer programme. It will be the same all trip.
<b>Page of</b>	Number all the GEN-2 forms together, in sequence. Continue until the trip is complete.
<b>Species Code</b>	Use the three-letter FAO species code.
<b>Species Description</b>	Use this field to describe some of the identifying features of the species. This may help us to correctly identify the species. Consider the colour, any distinctive markings, the shape of the head, fins, tail, the position of the blow hole and the place of the fins in relation to other body parts.
<b>Tick to indicate the FINAL encounter</b>	Tick one box only - to indicate the FINAL encounter the species of special interest had with the vessel. For instance, if you a marine mammal that was interacting with the vessel (swimming around the vessel) and it was subsequently landed, tick 'landed on deck'.
<b>Time of first observer sighting</b>	Note the time the observer FIRST noted the species of special interest.
<b>Details of the FINAL encounter</b> (for any landings see PS-2, PL-2 or LL-4)	Note the ship's date and time, and the position at the start of the final encounter. For instance, if the final encounter was an interaction mark the time, date and position of the start of the interaction. Otherwise record the details for when the observer first noted the SSI during the interaction. If the final encounter is landed on deck you must record the start of set ship's time from PS-2, PL-2 or the ship's time landed from the LL-4 form.
<b>Latitude / Longitude</b>	Note start of set position for species landed on deck. If a species was only sighted or only interacted with gear, note position the vessel was in when species was first seen.
<b>Did the Observer Sight the SSI before the set?</b>	Circle one of the choices. For instance, circle Yes to indicate that the observer saw the SSI before the set was made. This question is most relevant for PS vessels, but should be answered for all gears.

**SPECIES LANDED ON DECK:**

<b>USE THESE CONDITION CODES</b>	<b>A0</b> - Alive but unable to describe condition.	<i>Normally use one GEN-2 for every SSI landed, but if many animals are landed in a PS set use the GEN-2 supplement to record condition, length, and sex of up to 30; then use a PS-4 to record lengths if more than 30.</i>	
	<b>A1</b> - Alive and healthy.		
	<b>A2</b> - Alive, but injured or distressed.		
	<b>A3</b> - Alive, but unlikely to live.		
	<b>A4</b> - Entangled, okay.	<b>D</b> - Dead	<b>U</b> - Condition unknown.
	<b>A5</b> - Entangled, injured.	<b>D1</b> - Entangled, dead	<b>U1</b> - Entangled, unknown condition.
	<b>A6</b> - Hooked, externally, injured.	<b>D2</b> - Hooked, externally, dead.	<b>U2</b> - Hooked, externally, condition unknown.
	<b>A7</b> - Hooked, internally, injured.	<b>D3</b> - Hooked, internally, dead.	<b>U3</b> - Hooked, internally, condition unknown.
<b>A8</b> - Hooked, unknown, injured.	<b>D4</b> - Hooked, unknown, dead.	<b>U4</b> - Hooked, unknown, condition unknown.	
<b>Condition description</b>	Write a description of the condition of the species when landed / discarded. This may help to further assess the condition of the landed / discard species.		
<b>Describe the Interaction/ treatment/ release</b>	Make detailed notes on the SSI from the moment it interacted with the boat to the point of its release. Continue the description in the journal and record page no. on the form. Refer to WCPFC RHS handling guidelines.		
<b>Length / Length code</b>	Measure the species using an UF measurement for any m.mammals, sharks and a CL measurement for turtles.		
<b>Sex (M-F-I-U)</b>	M - male, F- Female, I - Indeterminate (checked, but not clear), U - unknown (not checked).		
<b>TAGS</b>	Record all details about any tags placed or found on the species here.		
<b>Type of Tags</b>	Record if it was a common dart, an archival (stitched inside body), or a pop-up (stitched to the outside of the body) tag.		

**INTERACTIONS WITH VESSEL OR VESSEL GEAR:**

"Interactions" are when a SSI touches, or is directly affected by the presence of the catcher vessel, its gear, or tender vessel. Examples may include: whales/dolphins inside a purse seine net; dolphins riding vessel bow waves; pilot whales waiting near vessel or net to be fed, SSI's hooked on longlines but not landed. **Use one form per species per incident. If there are more than five SSI landed from any one set use the supplementary GEN-2 form.**

<b>Vessel's Activity</b>	Tick to indicate the vessel's activity when the interaction was first noted.
<b>Condition - No.</b>	Use <b>GEN-2 condition codes</b> , above, to describe how many of a species are in each condition, at start, and again at end, of the interaction with the vessel or vessel gear.
<b>- Code</b>	
<b>- Description</b>	Add any notes (words) that may help further define condition the SSI condition,. For instance, if it was am A2 condition you could mention that the SSI was 'Bleeding heavily' to clarify its condition
<b>DESCRIBE INTERACTION and if relevant any TREATMENT / RELEASE</b>	Make detailed notes on the interaction. If more space is needed use the observer's journal and mark the page number here.

**SPECIES SIGHTED:**

<i>Sightings' refer to SSIs that, as far as an observer can tell, seem not to be directly affected by the vessel's presence. Usually such 'sightings' are at least 100m away. However, when so close, observe carefully for interaction behaviour.</i>	
<b>Vessel's Activity</b>	Tick to indicate the vessel's activity when the interaction was first noted.
<b>Number Sighted</b>	Record the total number of species sighted for this date and time.
<b>Number of Adults</b>	If more than one animal is involved, record the number of adults you can see.
<b>Number of Juvenilles</b>	If you can see juvenilles with the pod of whales or dolphins record the number here. Otherwise record all animals under "number of adults".
<b>Species Behaviour</b>	Describe the behaviour of the animal in the water. Use own words but some technical terms that may be helpful include: <i>wake riding</i> (swimming close behind boat); <i>bow riding</i> (swimming off the bow of the boat); <i>logging</i> (floating motionless in a group); <i>breaching</i> (launching themselves into the air head first and then falling back into the water with a splash); <i>lobtailing</i> (tail slapping); <i>playing</i> (having fun !); etc.
<b>Distance from Vessel (m)</b>	Estimate the distance the species was from the vessel.

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

**FORM GEN - 2**

REVISED MAR. 2014

OBSERVER NAME	VESSEL NAME	OBSERVER TRIP ID NUMBER	PAGE OF
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<b>SPECIES CODE</b>	<b>SPECIES DESCRIPTION</b>
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**THE SPECIES WAS: Tick to indicate the final encounter of the species with the vessel:**  
**SIGHTED ONLY:**       **INTERACTED WITH THE VESSEL'S GEAR ONLY:**       **LANDED ON DECK:**

TIME OF FIRST OBSERVER SIGHTING	hh: mm	SHIP'S DATE AND TIME				LATITUDE (dd°mm.mmm')	N S	LONGITUDE (ddd°mm.mmm')	E W
DETAILS OF THE FINAL ENCOUNTER (for any landing see PS-2, PL-2, LL-4)		YY	MM	DD	hh	mm			

**DID THE OBSERVER SIGHT THE SPECIES OF SPECIAL INTEREST BEFORE THE SET?** (circle one) **Yes / No / No Set**

**SPECIES LANDED ON DECK:**

<b>CONDITION LANDED:</b>	CONDITION CODE	CONDITION DESCRIPTION
<b>CONDITION DISCARDED</b>	CONDITION CODE	CONDITION DESCRIPTION

DESCRIBE INTERACTION / TREATMENT / RELEASE	LENGTH (cm)
	LENGTH CODE
	SEX (M-F-I- U)

TAGS	RETRIEVED			PLACED		
	TAG NUMBER	TYPE	ORGANISATION	TAG NUMBER	TYPE	ORGANISATION

**INTERACTIONS WITH VESSEL OR VESSEL GEAR:**

VESSEL ACTIVITY DURING INTERACTION: → SETTING  HAULING  SEARCHING  TRANSITING  OTHER (specify)

CONDITION	START of INTERACTION:	No.	Condition Code	CONDITION DESCRIPTION	END of INTERACTION:	No.	Condition Code	CONDITION DESCRIPTION

DESCRIBE INTERACTION and if relevant any TREATMENT / RELEASE

**SPECIES SIGHTED**

VESSEL ACTIVITY WHEN SIGHTED: → SETTING  HAULING  SEARCHING  TRANSITING  OTHER (specify)

NUMBER SIGHTED	NUMBER OF ADULTS	NUMBER OF JUVENILES	ESTIMATE THE OVERALL LENGTH(s) (From the head to the tail)
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DISTANCE FROM VESSEL	SPECIES BEHAVIOUR WHEN SIGHTED
m	

<b>Observer Name</b>	Print your name in full. First name first, then your family name (e.g "John Masa").
<b>Vessel Name</b>	Print the vessel's name in full. Do not use abbreviations.
<b>Observer Trip ID Number</b>	This is the number issued by your observer programme. It will be the same all trip.
<b>Page of</b>	Number all the GEN-2 forms together, in sequence. Continue until the trip is complete.
<b>Species Code</b>	Use the three-letter FAO species code.
<b>Species Description</b>	Use this field to describe some of the identifying features of the species. This may help us to correctly identify the species. Consider the colour, any distinctive markings, the shape of the head, fins, tail, the position of the blow hole and the place of the fins in relation to other body parts.
<b>Tick to indicate the FINAL encounter</b>	Tick one box only - to indicate the FINAL encounter the species of special interest had with the vessel. For instance, if you a marine mammal that was interacting with the vessel (swimming around the vessel) and it was subsequently landed, tick 'landed on deck'.
<b>Time of first observer sighting</b>	Note the time the observer FIRST noted the species of special interest.
<b>Details of the FINAL encounter</b> (for any landings see PS-2, PL-2 or LL-4)	Note the ship's date and time, and the position at the start of the final encounter. For instance, if the final encounter was an interaction mark the time, date and position of the start of the interaction. Otherwise record the details for when the observer first noted the SSI during the interaction. If the final encounter is landed on deck you must record the start of set ship's time from PS-2, PL-2 or the ship's time landed from the LL-4 form.
<b>Latitude / Longitude</b>	Note start of set position for species landed on deck. If a species was only sighted or only interacted with gear, note position the vessel was in when species was first seen.
<b>Did the Observer Sight the SSI before the set?</b>	Circle one of the choices. For instance, circle Yes to indicate that the observer saw the SSI before the set was made. This question is most relevant for PS vessels, but should be answered for all gears.

**SPECIES LANDED ON DECK:**

<b>USE THESE CONDITION CODES</b>	<b>A0</b> - Alive but unable to describe condition.	<i>Normally use one GEN-2 for every SSI landed, but if many animals are landed in a PS set use the GEN-2 supplement to record condition, length, and sex of up to 30; then use a PS-4 to record lengths if more than 30.</i>	
	<b>A1</b> - Alive and healthy.		
	<b>A2</b> - Alive, but injured or distressed.		
	<b>A3</b> - Alive, but unlikely to live.	<b>D</b> - Dead	<b>U</b> - Condition unknown.
	<b>A4</b> - Entangled, okay.	<b>D1</b> - Entangled, dead	<b>U1</b> - Entangled, unknown condition.
	<b>A5</b> - Entangled, injured.	<b>D2</b> - Hooked, externally, dead.	<b>U2</b> - Hooked, externally, condition unknown.
	<b>A6</b> - Hooked, externally, injured.	<b>D3</b> - Hooked, internally, dead.	<b>U3</b> - Hooked, internally, condition unknown.
	<b>A7</b> - Hooked, internally, injured.	<b>D4</b> - Hooked, unknown, dead.	<b>U4</b> - Hooked, unknown, condition unknown.
	<b>A8</b> - Hooked, unknown, injured.		
<b>Condition description</b>	Write a description of the condition of the species when landed / discarded. This may help to further assess the condition of the landed / discard species.		
<b>Describe the Interaction/ treatment/ release</b>	Make detailed notes on the SSI from the moment it interacted with the boat to the point of its release. Continue the description in the journal and record page no. on the form. Refer to WCPFC RHS handling guidelines.		
<b>Length / Length code</b>	Measure the species using an UF measurement for any m.mammals, sharks and a CL measurement for turtles.		
<b>Sex (M-F-I-U)</b>	M - male, F- Female, I - Indeterminate (checked, but not clear), U - unknown (not checked).		
<b>TAGS</b>	Record all details about any tags placed or found on the species here.		
<b>Type of Tags</b>	Record if it was a common dart, an archival (stitched inside body), or a pop-up (stitched to the outside of the body) tag.		

**INTERACTIONS WITH VESSEL OR VESSEL GEAR:**

"Interactions" are when a SSI touches, or is directly affected by the presence of the catcher vessel, its gear, or tender vessel. Examples may include: whales/dolphins inside a purse seine net; dolphins riding vessel bow waves; pilot whales waiting near vessel or net to be fed, SSI's hooked on longlines but not landed. **Use one form per species per incident. If there are more than five SSI landed from any one set use the supplementary GEN-2 form.**

<b>Vessel's Activity</b>	Tick to indicate the vessel's activity when the interaction was first noted.
<b>Condition - No.</b>	Use <b>GEN-2 condition codes</b> , above, to describe how many of a species are in each condition, at start, and again at end, of the interaction with the vessel or vessel gear.
<b>- Code</b>	
<b>- Description</b>	Add any notes (words) that may help further define condition the SSI condition,. For instance, if it was am A2 condition you could mention that the SSI was 'Bleeding heavily' to clarify its condition
<b>DESCRIBE INTERACTION and if relevant any TREATMENT / RELEASE</b>	Make detailed notes on the interaction. If more space is needed use the observer's journal and mark the page number here.

**SPECIES SIGHTED:**

*Sightings' refer to SSIs that, as far as an observer can tell, seem not to be directly affected by the vessel's presence. Usually such 'sightings' are at least 100m away. However, when so close, observe carefully for interaction behaviour.*

<b>Vessel's Activity</b>	Tick to indicate the vessel's activity when the interaction was first noted.
<b>Number Sighted</b>	Record the total number of species sighted for this date and time.
<b>Number of Adults</b>	If more than one animal is involved, record the number of adults you can see.
<b>Number of Juveniles</b>	If you can see juveniles with the pod of whales or dolphins record the number here. Otherwise record all animals under "number of adults".
<b>Species Behaviour</b>	Describe the behaviour of the animal in the water. Use own words but some technical terms that may be helpful include: <i>wake riding</i> (swimming close behind boat); <i>bow riding</i> (swimming off the bow of the boat); <i>logging</i> (floating motionless in a group); <i>breaching</i> (launching themselves into the air head first and then falling back into the water with a splash); <i>lobtailing</i> (tail slapping); <i>playing</i> (having fun !); etc.
<b>Distance from Vessel (m)</b>	Estimate the distance the species was from the vessel.

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

**FORM GEN - 2**

REVISED MAR. 2014

OBSERVER NAME	VESSEL NAME	OBSERVER TRIP ID NUMBER	PAGE OF
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SPECIES CODE	SPECIES DESCRIPTION
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**THE SPECIES WAS: Tick to indicate the final encounter of the species with the vessel:**  
**SIGHTED ONLY:**  **INTERACTED WITH THE VESSEL'S GEAR ONLY:**  **LANDED ON DECK:**

TIME OF FIRST OBSERVER SIGHTING	hh: mm	SHIP'S DATE AND TIME	LATITUDE	N	LONGITUDE	E
		YY MM DD hh mm	(dd°mm.mmm')	S	(ddd°mm.mmm')	W
DETAILS OF THE FINAL ENCOUNTER (for any landing see PS-2, PL-2, LL-4)						

**DID THE OBSERVER SIGHT THE SPECIES OF SPECIAL INTEREST BEFORE THE SET?** (circle one) **Yes / No / No Set**

**SPECIES LANDED ON DECK:**

<b>CONDITION LANDED:</b>	CONDITION CODE	CONDITION DESCRIPTION
<b>CONDITION DISCARDED</b>	CONDITION CODE	CONDITION DESCRIPTION

DESCRIBE INTERACTION /TREATMENT /RELEASE	LENGTH (cm)
	LENGTH CODE
	SEX (M-F-I- U)

TAGS	RETRIEVED			PLACED		
	TAG NUMBER	TYPE	ORGANISATION	TAG NUMBER	TYPE	ORGANISATION

**INTERACTIONS WITH VESSEL OR VESSEL GEAR:**

VESSEL ACTIVITY DURING INTERACTION: → SETTING  HAULING  SEARCHING  TRANSITING  OTHER (specify)

CONDITION	START of INTERACTION:	No.	Condition Code	CONDITION DESCRIPTION	END of INTERACTION:	No.	Condition Code	CONDITION DESCRIPTION

DESCRIBE INTERACTION and if relevant any TREATMENT /RELEASE

**SPECIES SIGHTED**

VESSEL ACTIVITY WHEN SIGHTED: → SETTING  HAULING  SEARCHING  TRANSITING  OTHER (specify)

NUMBER SIGHTED	NUMBER OF ADULTS	NUMBER OF JUVENILES	ESTIMATE THE OVERALL LENGTH(s) (From the head to the tail)
DISTANCE FROM VESSEL	SPECIES BEHAVIOUR WHEN SIGHTED		
m			

<b>Observer Name</b>	Print your name in full. First name first, then your family name (e.g "John Masa").
<b>Vessel Name</b>	Print the vessel's name in full. Do not use abbreviations.
<b>Observer Trip ID Number</b>	This is the number issued by your observer programme. It will be the same all trip.
<b>Page of</b>	Number all the GEN-2 forms together, in sequence. Continue until the trip is complete.
<b>Species Code</b>	Use the three-letter FAO species code.
<b>Species Description</b>	Use this field to describe some of the identifying features of the species. This may help us to correctly identify the species. Consider the colour, any distinctive markings, the shape of the head, fins, tail, the position of the blow hole and the place of the fins in relation to other body parts.
<b>Tick to indicate the FINAL encounter</b>	Tick one box only - to indicate the FINAL encounter the species of special interest had with the vessel. For instance, if you a marine mammal that was interacting with the vessel (swimming around the vessel) and it was subsequently landed, tick 'landed on deck'.
<b>Time of first observer sighting</b>	Note the time the observer FIRST noted the species of special interest.
<b>Details of the FINAL encounter</b> (for any landings see PS-2, PL-2 or LL-4)	Note the ship's date and time, and the position at the start of the final encounter. For instance, if the final encounter was an interaction mark the time, date and position of the start of the interaction. Otherwise record the details for when the observer first noted the SSI during the interaction. If the final encounter is landed on deck you must record the start of set ship's time from PS-2, PL-2 or the ship's time landed from the LL-4 form.
<b>Latitude / Longitude</b>	Note start of set position for species landed on deck. If a species was only sighted or only interacted with gear, note position the vessel was in when species was first seen.
<b>Did the Observer Sight the SSI before the set?</b>	Circle one of the choices. For instance, circle Yes to indicate that the observer saw the SSI before the set was made. This question is most relevant for PS vessels, but should be answered for all gears.

**SPECIES LANDED ON DECK:**

<b>USE THESE CONDITION CODES</b>	<b>A0</b> - Alive but unable to describe condition.	<i>Normally use one GEN-2 for every SSI landed, but if many animals are landed in a PS set use the GEN-2 supplement to record condition, length, and sex of up to 30; then use a PS-4 to record lengths if more than 30.</i>	
	<b>A1</b> - Alive and healthy.		
	<b>A2</b> - Alive, but injured or distressed.		
	<b>A3</b> - Alive, but unlikely to live.		
	<b>A4</b> - Entangled, okay.	<b>D</b> - Dead	<b>U</b> - Condition unknown.
	<b>A5</b> - Entangled, injured.	<b>D1</b> - Entangled, dead	<b>U1</b> - Entangled, unknown condition.
	<b>A6</b> - Hooked, externally, injured.	<b>D2</b> - Hooked, externally, dead.	<b>U2</b> - Hooked, externally, condition unknown.
	<b>A7</b> - Hooked, internally, injured.	<b>D3</b> - Hooked, internally, dead.	<b>U3</b> - Hooked, internally, condition unknown.
<b>A8</b> - Hooked, unknown, injured.	<b>D4</b> - Hooked, unknown, dead.	<b>U4</b> - Hooked, unknown, condition unknown.	
<b>Condition description</b>	Write a description of the condition of the species when landed / discarded. This may help to further assess the condition of the landed / discard species.		
<b>Describe the Interaction/ treatment/ release</b>	Make detailed notes on the SSI from the moment it interacted with the boat to the point of its release. Continue the description in the journal and record page no. on the form. Refer to WCPFC RHS handling guidelines.		
<b>Length / Length code</b>	Measure the species using an UF measurement for any m.mammals, sharks and a CL measurement for turtles.		
<b>Sex (M-F-I-U)</b>	M - male, F- Female, I - Indeterminate (checked, but not clear), U - unknown (not checked).		
<b>TAGS</b>	Record all details about any tags placed or found on the species here.		
<b>Type of Tags</b>	Record if it was a common dart, an archival (stitched inside body), or a pop-up (stiched to the outside of the body) tag.		

**INTERACTIONS WITH VESSEL OR VESSEL GEAR:**

"Interactions" are when a SSI touches, or is directly affected by the presence of the catcher vessel, its gear, or tender vessel. Examples may include: whales/dolphins inside a purse seine net; dolphins riding vessel bow waves; pilot whales waiting near vessel or net to be fed, SSI's hooked on longlines but not landed. **Use one form per species per incident. If there are more than five SSI landed from any one set use the supplementary GEN-2 form.**

<b>Vessel's Activity</b>	Tick to indicate the vessel's activity when the interaction was first noted.
<b>Condition - No.</b>	Use <b>GEN-2 condition codes</b> , above, to describe how many of a species are in each condition, at start, and again at end, of the interaction with the vessel or vessel gear.
<b>- Code</b>	
<b>- Description</b>	Add any notes (words) that may help further define condition the SSI condition,. For instance, if it was an A2 condition you could mention that the SSI was 'Bleeding heavily' to clarify its condition
<b>DESCRIBE INTERACTION and if relevant any TREATMENT / RELEASE</b>	Make detailed notes on the interaction. If more space is needed use the observer's journal and mark the page number here.

**SPECIES SIGHTED:**

*Sightings' refer to SSIs that, as far as an observer can tell, seem not to be directly affected by the vessel's presence. Usually such 'sightings' are at least 100m away. However, when so close, observe carefully for interaction behaviour.*

<b>Vessel's Activity</b>	Tick to indicate the vessel's activity when the interaction was first noted.
<b>Number Sighted</b>	Record the total number of species sighted for this date and time.
<b>Number of Adults</b>	If more than one animal is involved, record the number of adults you can see.
<b>Number of Juveniles</b>	If you can see juveniles with the pod of whales or dolphins record the number here. Otherwise record all animals under "number of adults".
<b>Species Behaviour</b>	Describe the behaviour of the animal in the water. Use own words but some technical terms that may be helpful include: <i>wake riding</i> (swimming close behind boat); <i>bow riding</i> (swimming off the bow of the boat); <i>logging</i> (floating motionless in a group); <i>breaching</i> (launching themselves into the air head first and then falling back into the water with a splash); <i>lobtailing</i> (tail slapping); <i>playing</i> (having fun !); etc.
<b>Distance from Vessel (m)</b>	Estimate the distance the species was from the vessel.



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

**FORM GEN - 2**

REVISED MAR. 2014

OBSERVER NAME	VESSEL NAME	OBSERVER TRIP ID NUMBER	PAGE OF
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<b>SPECIES CODE</b>	<b>SPECIES DESCRIPTION</b>
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**THE SPECIES WAS:** Tick to indicate the final encounter of the species with the vessel:  
**SIGHTED ONLY:**       **INTERACTED WITH THE VESSEL'S GEAR ONLY:**       **LANDED ON DECK:**

TIME OF FIRST OBSERVER SIGHTING	hh: mm	SHIP'S DATE AND TIME				LATITUDE (dd°mm.mmm')	N S	LONGITUDE (ddd°mm.mmm')	E W
DETAILS OF THE FINAL ENCOUNTER (for any landing see PS-2, PL-2, LL-4)		YY	MM	DD	hh	mm			

**DID THE OBSERVER SIGHT THE SPECIES OF SPECIAL INTEREST BEFORE THE SET?** (circle one) **Yes / No / No Set**

**SPECIES LANDED ON DECK:**

<b>CONDITION LANDED:</b>	CONDITION CODE	CONDITION DESCRIPTION
<b>CONDITION DISCARDED</b>	CONDITION CODE	CONDITION DESCRIPTION

DESCRIBE INTERACTION / TREATMENT / RELEASE	LENGTH (cm)
	LENGTH CODE
	SEX (M-F-I-U)

<b>TAGS</b>	<i>RETRIEVED</i>			<i>PLACED</i>		
	TAG NUMBER	TYPE	ORGANISATION	TAG NUMBER	TYPE	ORGANISATION

**INTERACTIONS WITH VESSEL OR VESSEL GEAR:**

VESSEL ACTIVITY DURING INTERACTION: → SETTING  HAULING  SEARCHING  TRANSITING  OTHER (specify)

<b>CONDITION START of INTERACTION:</b>	No.	Condition Code	CONDITION DESCRIPTION	<b>END of INTERACTION:</b>	No.	Condition Code	CONDITION DESCRIPTION	

DESCRIBE INTERACTION and if relevant any TREATMENT / RELEASE

**SPECIES SIGHTED**

VESSEL ACTIVITY WHEN SIGHTED: → SETTING  HAULING  SEARCHING  TRANSITING  OTHER (specify)

NUMBER SIGHTED	NUMBER OF ADULTS	NUMBER OF JUVENILES	ESTIMATE THE OVERALL LENGTH(s) (From the head to the tail)
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DISTANCE FROM VESSEL	SPECIES BEHAVIOUR WHEN SIGHTED
m	

<b>Observer Name</b>	Print your name in full. First name first, then your family name (e.g "John Masa").
<b>Vessel Name</b>	Print the vessel's name in full. Do not use abbreviations.
<b>Observer Trip ID Number</b>	This is the number issued by your observer programme. It will be the same all trip.
<b>Page of</b>	Number all the GEN-2 forms together, in sequence. Continue until the trip is complete.
<b>Species Code</b>	Use the three-letter FAO species code.
<b>Species Description</b>	Use this field to describe some of the identifying features of the species. This may help us to correctly identify the species. Consider the colour, any distinctive markings, the shape of the head, fins, tail, the position of the blow hole and the place of the fins in relation to other body parts.
<b>Tick to indicate the FINAL encounter</b>	Tick one box only - to indicate the FINAL encounter the species of special interest had with the vessel. For instance, if you a marine mammal that was interacting with the vessel (swimming around the vessel) and it was subsequently landed, tick 'landed on deck'.
<b>Time of first observer sighting</b>	Note the time the observer FIRST noted the species of special interest.
<b>Details of the FINAL encounter</b> (for any landings see PS-2, PL-2 or LL-4)	Note the ship's date and time, and the position at the start of the final encounter. For instance, if the final encounter was an interaction mark the time, date and position of the start of the interaction. Otherwise record the details for when the observer first noted the SSI during the interaction. If the final encounter is landed on deck you must record the start of set ship's time from PS-2, PL-2 or the ship's time landed from the LL-4 form.
<b>Latitude / Longitude</b>	Note start of set position for species landed on deck. If a species was only sighted or only interacted with gear, note position the vessel was in when species was first seen.
<b>Did the Observer Sight the SSI before the set?</b>	Circle one of the choices. For instance, circle Yes to indicate that the observer saw the SSI before the set was made. This question is most relevant for PS vessels, but should be answered for all gears.

**SPECIES LANDED ON DECK:**

<b>USE THESE CONDITION CODES</b>	<b>A0</b> - Alive but unable to describe condition.	<i>Normally use one GEN-2 for every SSI landed, but if many animals are landed in a PS set use the GEN-2 supplement to record condition, length, and sex of up to 30; then use a PS-4 to record lengths if more than 30.</i>		
	<b>A1</b> - Alive and healthy.			
	<b>A2</b> - Alive, but injured or distressed.			
	<b>A3</b> - Alive, but unlikely to live.			
	<b>A4</b> - Entangled, okay.		<b>D</b> - Dead	<b>U</b> - Condition unknown.
	<b>A5</b> - Entangled, injured.		<b>D1</b> - Entangled, dead	<b>U1</b> - Entangled, unknown condition.
	<b>A6</b> - Hooked, externally, injured.		<b>D2</b> - Hooked, externally, dead.	<b>U2</b> - Hooked, externally, condition unknown.
	<b>A7</b> - Hooked, internally, injured.		<b>D3</b> - Hooked, internally, dead.	<b>U3</b> - Hooked, internally, condition unknown.
<b>A8</b> - Hooked, unknown, injured.	<b>D4</b> - Hooked, unknown, dead.	<b>U4</b> - Hooked, unknown, condition unknown.		

<b>Condition description</b>	Write a description of the condition of the species when landed / discarded. This may help to further assess the condition of the landed / discard species.
<b>Describe the Interaction/ treatment/ release</b>	Make detailed notes on the SSI from the moment it interacted with the boat to the point of its release. Continue the description in the journal and record page no. on the form. Refer to WCPFC RHS handling guidelines.
<b>Length / Length code</b>	Measure the species using an UF measurement for any m.mammals, sharks and a CL measurement for turtles.
<b>Sex (M-F-I-U)</b>	M - male, F - Female, I - Indeterminate (checked, but not clear), U - unknown (not checked).

**TAGS**

Record all details about any tags placed or found on the species here.

<b>Type of Tags</b>	Record if it was a common dart, an archival (stitched inside body), or a pop-up (stitched to the outside of the body) tag.
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**INTERACTIONS WITH VESSEL OR VESSEL GEAR:**

"Interactions" are when a SSI touches, or is directly affected by the presence of the catcher vessel, its gear, or tender vessel. Examples may include: whales/dolphins inside a purse seine net; dolphins riding vessel bow waves; pilot whales waiting near vessel or net to be fed, SSI's hooked on longlines but not landed. **Use one form per species per incident. If there are more than five SSI landed from any one set use the supplementary GEN-2 form.**

<b>Vessel's Activity</b>	Tick to indicate the vessel's activity when the interaction was first noted.
<b>Condition - No.</b>	Use <b>GEN-2 condition codes</b> , above, to describe how many of a species are in each condition, at start, and again at end, of the interaction with the vessel or vessel gear.
<b>- Code</b>	
<b>- Description</b>	Add any notes (words) that may help further define condition the SSI condition,. For instance, if it was an A2 condition you could mention that the SSI was 'Bleeding heavily' to clarify its condition
<b>DESCRIBE INTERACTION and if relevant any TREATMENT / RELEASE</b>	Make detailed notes on the interaction. If more space is needed use the observer's journal and mark the page number here.

**SPECIES SIGHTED:**

Sightings' refer to SSIs that, as far as an observer can tell, seem not to be directly affected by the vessel's presence. Usually such 'sightings' are at least 100m away. However, when so close, observe carefully for interaction behaviour.

<b>Vessel's Activity</b>	Tick to indicate the vessel's activity when the interaction was first noted.
<b>Number Sighted</b>	Record the total number of species sighted for this date and time.
<b>Number of Adults</b>	If more than one animal is involved, record the number of adults you can see.
<b>Number of Juveniles</b>	If you can see juveniles with the pod of whales or dolphins record the number here. Otherwise record all animals under "number of adults".
<b>Species Behaviour</b>	Describe the behaviour of the animal in the water. Use own words but some technical terms that may be helpful include: <i>wake riding</i> (swimming close behind boat); <i>bow riding</i> (swimming off the bow of the boat); <i>logging</i> (floating motionless in a group); <i>breaching</i> (launching themselves into the air head first and then falling back into the water with a splash); <i>lobtailing</i> (tail slapping); <i>playing</i> (having fun !); etc.
<b>Distance from Vessel (m)</b>	Estimate the distance the species was from the vessel.

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

**FORM GEN - 2**

REVISED MAR. 2014

OBSERVER NAME	VESSEL NAME	OBSERVER TRIP ID NUMBER	PAGE OF
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SPECIES CODE	SPECIES DESCRIPTION
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**THE SPECIES WAS:** Tick to indicate the final encounter of the species with the vessel:

SIGHTED ONLY:  INTERACTED WITH THE VESSEL'S GEAR ONLY:  LANDED ON DECK:

TIME OF FIRST OBSERVER SIGHTING	hh: mm	SHIP'S DATE AND TIME				LATITUDE (dd°mm.mmm')	N S	LONGITUDE (ddd°mm.mmm')	E W
DETAILS OF THE FINAL ENCOUNTER <small>(for any landing see PS-2, PL-2, LL-4)</small>		YY	MM	DD	hh	mm			

**DID THE OBSERVER SIGHT THE SPECIES OF SPECIAL INTEREST BEFORE THE SET?** (circle one) **Yes / No / No Set**

**SPECIES LANDED ON DECK:**

<b>CONDITION LANDED:</b>	CONDITION CODE	CONDITION DESCRIPTION
<b>CONDITION DISCARDED</b>	CONDITION CODE	CONDITION DESCRIPTION
DESCRIBE INTERACTION / TREATMENT / RELEASE		LENGTH (cm)
		LENGTH CODE
		SEX (M-F-I-U)

TAGS	RETRIEVED			PLACED		
	TAG NUMBER	TYPE	ORGANISATION	TAG NUMBER	TYPE	ORGANISATION

**INTERACTIONS WITH VESSEL OR VESSEL GEAR:**

VESSEL ACTIVITY DURING INTERACTION: → SETTING  HAULING  SEARCHING  TRANSITING  OTHER (specify)

CONDITION	START of INTERACTION:	No.	Condition Code	CONDITION DESCRIPTION	END of INTERACTION:	No.	Condition Code	CONDITION DESCRIPTION

DESCRIBE INTERACTION and if relevant any TREATMENT / RELEASE

**SPECIES SIGHTED**

VESSEL ACTIVITY WHEN SIGHTED: → SETTING  HAULING  SEARCHING  TRANSITING  OTHER (specify)

NUMBER SIGHTED	NUMBER OF ADULTS	NUMBER OF JUVENILES	ESTIMATE THE OVERALL LENGTH(s) (From the head to the tail)
DISTANCE FROM VESSEL	SPECIES BEHAVIOUR WHEN SIGHTED		
m			

<b>Observer Name</b>	Print your name in full. First name first, then your family name (e.g "John Masa").
<b>Vessel Name</b>	Print the vessel's name in full. Do not use abbreviations.
<b>Observer Trip ID Number</b>	This is the number issued by your observer programme. It will be the same all trip.
<b>Page of</b>	Number all the GEN-2 forms together, in sequence. Continue until the trip is complete.
<b>Species Code</b>	Use the three-letter FAO species code.
<b>Species Description</b>	Use this field to describe some of the identifying features of the species. This may help us to correctly identify the species. Consider the colour, any distinctive markings, the shape of the head, fins, tail, the position of the blow hole and the place of the fins in relation to other body parts.
<b>Tick to indicate the FINAL encounter</b>	Tick one box only - to indicate the FINAL encounter the species of special interest had with the vessel. For instance, if you a marine mammal that was interacting with the vessel (swimming around the vessel) and it was subsequently landed, tick 'landed on deck'.
<b>Time of first observer sighting</b>	Note the time the observer FIRST noted the species of special interest.
<b>Details of the FINAL encounter</b> (for any landings see PS-2, PL-2 or LL-4)	Note the ship's date and time, and the position at the start of the final encounter. For instance, if the final encounter was an interaction mark the time, date and position of the start of the interaction. Otherwise record the details for when the observer first noted the SSI during the interaction. If the final encounter is landed on deck you must record the start of set ship's time from PS-2, PL-2 or the ship's time landed from
<b>Latitude / Longitude</b>	Note start of set position for species landed on deck. If a species was only sighted or only interacted with gear, note position the vessel was in when species was first seen.
<b>Did the Observer Sight the SSI before the set?</b>	Circle one of the choices. For instance, circle Yes to indicate that the observer saw the SSI before the set was made. This question is most relevant for PS vessels, but should be answered for all gears.

**SPECIES LANDED ON DECK:**

<b>USE THESE CONDITION CODES</b>	<b>A0</b> - Alive but unable to describe condition.	<i>Normally use one GEN-2 for every SSI landed, but if many animals are landed in a PS set use the GEN-2 supplement to record condition, length, and sex of up to 30; then use a PS-4 to record lengths if more than 30.</i>		
	<b>A1</b> - Alive and healthy.			
	<b>A2</b> - Alive, but injured or distressed.			
	<b>A3</b> - Alive, but unlikely to live.			
	<b>A4</b> - Entangled, okay.		<b>D</b> - Dead	<b>U</b> - Condition unknown.
	<b>A5</b> - Entangled, injured.		<b>D1</b> - Entangled, dead	<b>U1</b> - Entangled, unknown condition.
	<b>A6</b> - Hooked, externally, injured.		<b>D2</b> - Hooked, externally, dead.	<b>U2</b> - Hooked, externally, condition unknown
	<b>A7</b> - Hooked, internally, injured.		<b>D3</b> - Hooked, internally, dead.	<b>U3</b> - Hooked, internally, condition unknown.
<b>A8</b> - Hooked, unknown, injured.	<b>D4</b> - Hooked, unknown, dead.	<b>U4</b> - Hooked, unknown, condition unknown.		

<b>Condition description</b>	Write a description of the condition of the species when landed / discarded. This may help to further assess the condition of the landed / discard species.
<b>Describe the Interaction/ treatment/ release</b>	Make detailed notes on the SSI from the moment it interacted with the boat to the point of its release. Continue the description in the journal and record page no. on the form. Refer to WCPFC RHN handling guidelines.
<b>Length / Length code</b>	Measure the species using an UF measurement for any m.mammals, sharks and a CL measurement for turtles.
<b>Sex (M-F-I-U)</b>	M - male, F - Female, I - Indeterminate (checked, but not clear), U - unknown (not checked).
<b>TAGS</b>	Record all details about any tags placed or found on the species here.
<b>Type of Tags</b>	Record if it was a common dart, an archival (stitched inside body), or a pop-up (stitched to the outside of the body) tag.

**INTERACTIONS WITH VESSEL OR VESSEL GEAR:**

"Interactions" are when a SSI touches, or is directly affected by the presence of the catcher vessel, its gear, or tender vessel. Examples may include: whales/dolphins inside a purse seine net; dolphins riding vessel bow waves; pilot whales waiting near vessel or net to be fed, SSI's hooked on longlines but not landed. **Use one form per species per incident. If there are more than five SSI landed from any one set use the supplementary GEN-2 form.**

<b>Vessel's Activity</b>	Tick to indicate the vessel's activity when the interaction was first noted.
<b>Condition - No.</b>	Use <b>GEN-2 condition codes</b> , above, to describe how many of a species are in each condition, at start, and again at end, of the interaction with the vessel or vessel gear.
<b>- Code</b>	
<b>- Description</b>	Add any notes (words) that may help further define condition the SSI condition. For instance, if it was an A2 condition you could mention that the SSI was 'Bleeding heavily' to clarify its
<b>DESCRIBE INTERACTION and if relevant any TREATMENT / RELEASE</b>	Make detailed notes on the interaction. If more space is needed use the observer's journal and mark the page number here.

**SPECIES SIGHTED:**

*Sightings' refer to SSIs that, as far as an observer can tell, seem not to be directly affected by the vessel's presence. Usually such 'sightings' are at least 100m away. However, when so close, observe carefully for interaction behaviour.*

<b>Vessel's Activity</b>	Tick to indicate the vessel's activity when the interaction was first noted.
<b>Number Sighted</b>	Record the total number of species sighted for this date and time.
<b>Number of Adults</b>	If more than one animal is involved, record the number of adults you can see.
<b>Number of Juveniles</b>	If you can see juveniles with the pod of whales or dolphins record the number here. Otherwise record all animals under "number of adults".
<b>Species Behaviour</b>	Describe the behaviour of the animal in the water. Use own words but some technical terms that may be helpful include: <i>wake riding</i> (swimming close behind boat); <i>bow riding</i> (swimming off the bow of the boat); <i>logging</i> (floating motionless in a group); <i>breaching</i> (launching themselves into the air head first and then falling back into the water with a splash); <i>lobtailing</i> (tail slapping); <i>playing</i> (having fun !); etc.
<b>Distance from Vessel (m)</b>	Estimate the distance the species was from the vessel.

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

**FORM GEN - 2**

REVISED MAR. 2014

OBSERVER NAME	VESSEL NAME	OBSERVER TRIP ID NUMBER	PAGE OF
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SPECIES CODE	SPECIES DESCRIPTION
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**THE SPECIES WAS:** Tick to indicate the final encounter of the species with the vessel:

SIGHTED ONLY:  INTERACTED WITH THE VESSEL'S GEAR ONLY:  LANDED ON DECK:

TIME OF FIRST OBSERVER SIGHTING	hh: mm	SHIP'S DATE AND TIME	LATITUDE	N S	LONGITUDE	E W
		YY MM DD hh mm	(dd°mm.mmm')		(ddd°mm.mmm')	
DETAILS OF THE FINAL ENCOUNTER (for any landing see PS-2, PL-2, LL-4)						

**DID THE OBSERVER SIGHT THE SPECIES OF SPECIAL INTEREST BEFORE THE SET?** (circle one) **Yes / No / No Set**

**SPECIES LANDED ON DECK:**

<b>CONDITION LANDED:</b>	CONDITION CODE	CONDITION DESCRIPTION
<b>CONDITION DISCARDED</b>	CONDITION CODE	CONDITION DESCRIPTION
DESCRIBE INTERACTION / TREATMENT / RELEASE		
LENGTH (cm)		
LENGTH CODE		
SEX (M-F-I-U)		

TAGS	RETRIEVED			PLACED		
	TAG NUMBER	TYPE	ORGANISATION	TAG NUMBER	TYPE	ORGANISATION

**INTERACTIONS WITH VESSEL OR VESSEL GEAR:**

VESSEL ACTIVITY DURING INTERACTION: → SETTING  HAULING  SEARCHING  TRANSITING  OTHER (specify)

CONDITION	START of INTERACTION:	No.	Condition Code	CONDITION DESCRIPTION	END of INTERACTION:	No.	Condition Code	CONDITION DESCRIPTION

DESCRIBE INTERACTION and if relevant any TREATMENT / RELEASE

**SPECIES SIGHTED**

VESSEL ACTIVITY WHEN SIGHTED: → SETTING  HAULING  SEARCHING  TRANSITING  OTHER (specify)

NUMBER SIGHTED	NUMBER OF ADULTS	NUMBER OF JUVENILES	ESTIMATE THE OVERALL LENGTH(S) (From the head to the tail)
DISTANCE FROM VESSEL	SPECIES BEHAVIOUR WHEN SIGHTED		
m			

<b>Observer Name</b>	Print your name in full. First name first, then your family name (e.g "John Masa").
<b>Vessel Name</b>	Print the vessel's name in full. Do not use abbreviations.
<b>Observer Trip ID Number</b>	This is the number issued by your observer programme. It will be the same all trip.
<b>Page of</b>	Number all the GEN-2 forms together, in sequence. Continue until the trip is complete.
<b>Species Code</b>	Use the three-letter FAO species code.
<b>Species Description</b>	Use this field to describe some of the identifying features of the species. This may help us to correctly identify the species. Consider the colour, any distinctive markings, the shape of the head, fins, tail, the position of the blow hole and the place of the fins in relation to other body parts.
<b>Tick to indicate the FINAL encounter</b>	Tick one box only - to indicate the FINAL encounter the species of special interest had with the vessel. For instance, if you a marine mammal that was interacting with the vessel (swimming around the vessel) and it was subsequently landed, tick 'landed on deck'.
<b>Time of first observer sighting</b>	Note the time the observer FIRST noted the species of special interest.
<b>Details of the FINAL encounter</b> (for any landings see PS-2, PL-2 or LL-4)	Note the ship's date and time, and the position at the start of the final encounter. For instance, if the final encounter was an interaction mark the time, date and position of the start of the interaction. Otherwise record the details for when the observer first noted the SSI during the interaction. If the final encounter is landed on deck you must record the start of set ship's time from PS-2, PL-2 or the ship's time landed from
<b>Latitude / Longitude</b>	Note start of set position for species landed on deck. If a species was only sighted or only interacted with gear, note position the vessel was in when species was first seen.
<b>Did the Observer Sight the SSI before the set?</b>	Circle one of the choices. For instance, circle Yes to indicate that the observer saw the SSI before the set was made. This question is most relevant for PS vessels, but should be answered for all gears.

**SPECIES LANDED ON DECK:**

<b>USE THESE CONDITION CODES</b>	<b>A0</b> - Alive but unable to describe condition.	<i>Normally use one GEN-2 for every SSI landed, but if many animals are landed in a PS set use the GEN-2 supplement to record condition, length, and sex of up to 30; then use a PS-4 to record lengths if more than 30.</i>		
	<b>A1</b> - Alive and healthy.			
	<b>A2</b> - Alive, but injured or distressed.			
	<b>A3</b> - Alive, but unlikely to live.			
	<b>A4</b> - Entangled, okay.		<b>D</b> - Dead	<b>U</b> - Condition unknown.
	<b>A5</b> - Entangled, injured.		<b>D1</b> - Entangled, dead	<b>U1</b> - Entangled, unknown condition.
	<b>A6</b> - Hooked, externally, injured.		<b>D2</b> - Hooked, externally, dead.	<b>U2</b> - Hooked, externally, condition unknown
	<b>A7</b> - Hooked, internally, injured.		<b>D3</b> - Hooked, internally, dead.	<b>U3</b> - Hooked, internally, condition unknown.
<b>A8</b> - Hooked, unknown, injured.	<b>D4</b> - Hooked, unknown, dead.	<b>U4</b> - Hooked, unknown, condition unknown.		

<b>Condition description</b>	Write a description of the condition of the species when landed / discarded. This may help to further assess the condition of the landed / discard species.
<b>Describe the Interaction/ treatment/ release</b>	Make detailed notes on the SSI from the moment it interacted with the boat to the point of its release. Continue the description in the journal and record page no. on the form. Refer to WCPFC RHN handling guidelines.
<b>Length / Length code</b>	Measure the species using an UF measurement for any m.mammals, sharks and a CL measurement for turtles.
<b>Sex (M-F-I-U)</b>	M - male, F- Female, I - Indeterminate (checked, but not clear), U - unknown (not checked).

<b>TAGS</b>	Record all details about any tags placed or found on the species here.
<b>Type of Tags</b>	Record if it was a common dart, an archival (stitched inside body), or a pop-up (stitched to the outside of the body) tag.

**INTERACTIONS WITH VESSEL OR VESSEL GEAR:**

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<b>Vessel's Activity</b>	Tick to indicate the vessel's activity when the interaction was first noted.
<b>Condition - No.</b>	Use <b>GEN-2 condition codes</b> , above, to describe how many of a species are in each condition, at start, and again at end, of the interaction with the vessel or vessel gear.
<b>- Code</b>	
<b>- Description</b>	
<b>DESCRIBE INTERACTION and if relevant any TREATMENT / RELEASE</b>	Add any notes (words) that may help further define condition the SSI condition,. For instance, if it was an A2 condition you could mention that the SSI was 'Bleeding heavily' to clarify its
	Make detailed notes on the interaction.
	If more space is needed use the observer's journal and mark the page number here.

**SPECIES SIGHTED:**

*Sightings' refer to SSIs that, as far as an observer can tell, seem not to be directly affected by the vessel's presence. Usually such 'sightings' are at least 100m away. However, when so close, observe carefully for interaction behaviour.*

<b>Vessel's Activity</b>	Tick to indicate the vessel's activity when the interaction was first noted.
<b>Number Sighted</b>	Record the total number of species sighted for this date and time.
<b>Number of Adults</b>	If more than one animal is involved, record the number of adults you can see.
<b>Number of Juveniles</b>	If you can see juveniles with the pod of whales or dolphins record the number here. Otherwise record all animals under "number of adults".
<b>Species Behaviour</b>	Describe the behaviour of the animal in the water. Use own words but some technical terms that may be helpful include: <i>wake riding</i> (swimming close behind boat); <i>bow riding</i> (swimming off the bow of the boat); <i>logging</i> (floating motionless in a group); <i>breaching</i> (launching themselves into the air head first and then falling back into the water with a splash); <i>lobtailing</i> (tail slapping); <i>playing</i> (having fun !); etc.
<b>Distance from Vessel (m)</b>	Estimate the distance the species was from the vessel.

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

**FORM GEN - 2**

REVISED MAR. 2014

OBSERVER NAME	VESSEL NAME	OBSERVER TRIP ID NUMBER	PAGE OF
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SPECIES CODE	SPECIES DESCRIPTION
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**THE SPECIES WAS:** Tick to indicate the final encounter of the species with the vessel:  
**SIGHTED ONLY:**       **INTERACTED WITH THE VESSEL'S GEAR ONLY:**       **LANDED ON DECK:**

TIME OF FIRST OBSERVER SIGHTING	hh: mm	SHIP'S DATE AND TIME				LATITUDE	N S	LONGITUDE	E W
		YY	MM	DD	hh	mm	(dd°mm.mmm')	(ddd°mm.mmm')	
DETAILS OF THE FINAL ENCOUNTER (for any landing see PS-2, PL-2, LL-4)									

**DID THE OBSERVER SIGHT THE SPECIES OF SPECIAL INTEREST BEFORE THE SET?** (circle one) **Yes / No / No Set**

SPECIES LANDED ON DECK:			
<b>CONDITION LANDED:</b>	CONDITION CODE	CONDITION DESCRIPTION	
<b>CONDITION DISCARDED</b>	CONDITION CODE	CONDITION DESCRIPTION	
DESCRIBE INTERACTION / TREATMENT / RELEASE			LENGTH (cm)
			LENGTH CODE
			SEX (M-F-I-U)

TAGS	RETRIEVED			PLACED		
	TAG NUMBER	TYPE	ORGANISATION	TAG NUMBER	TYPE	ORGANISATION

INTERACTIONS WITH VESSEL OR VESSEL GEAR:											
VESSEL ACTIVITY DURING INTERACTION: → SETTING <input type="checkbox"/> HAULING <input type="checkbox"/> SEARCHING <input type="checkbox"/> TRANSITING <input type="checkbox"/> OTHER (specify) <input type="checkbox"/>											
CONDITION	START of INTERACTION:	No.	Condition Code	CONDITION DESCRIPTION			END of INTERACTION:	No.	Condition Code	CONDITION DESCRIPTION	
DESCRIBE INTERACTION and if relevant any TREATMENT / RELEASE											

SPECIES SIGHTED				
VESSEL ACTIVITY WHEN SIGHTED: → SETTING <input type="checkbox"/> HAULING <input type="checkbox"/> SEARCHING <input type="checkbox"/> TRANSITING <input type="checkbox"/> OTHER (specify) <input type="checkbox"/>				
NUMBER SIGHTED	NUMBER OF ADULTS	NUMBER OF JUVENILES	ESTIMATE THE OVERALL LENGTH(s) (From the head to the tail)	
DISTANCE FROM VESSEL	SPECIES BEHAVIOUR WHEN SIGHTED			
m				



<b>Observer Name</b>	Print your name in full. First name first, then your family name (e.g "John Masa").
<b>Vessel Name</b>	Print the vessel's name in full. Do not use abbreviations.
<b>Observer Trip ID Number</b>	This is the number issued by your observer programme. It will be the same all trip.
<b>Page ___ of ___</b>	Number all the GEN-2 forms together, in sequence. Continue until the trip is complete.
<b>Species Code</b>	Use the three-letter FAO species code.
<b>Species Description</b>	Use this field to describe some of the identifying features of the species. This may help us to correctly identify the species. Consider the colour, any distinctive markings, the shape of the head, fins, tail, the position of the blow hole and the place of the fins in relation to other body parts.
<b>Tick to indicate the FINAL encounter</b>	Tick one box only - to indicate the FINAL encounter the species of special interest had with the vessel. For instance, if you a marine mammal that was interacting with the vessel (swimming around the vessel) and it was subsequently landed, tick 'landed on deck'.
<b>Time of first observer sighting</b>	Note the time the observer FIRST noted the species of special interest.
<b>Details of the FINAL encounter</b> (for any landings see PS-2, PL-2 or LL-4)	Note the ship's date and time, and the position at the start of the final encounter. For instance, if the final encounter was an interaction mark the time, date and position of the start of the interaction. Otherwise record the details for when the observer first noted the SSI during the interaction. If the final encounter is landed on deck you must record the start of set ship's time from PS-2, PL-2 or the ship's time landed from
<b>Latitude / Longitude</b>	Note start of set position for species landed on deck. If a species was only sighted or only interacted with gear, note position the vessel was in when species was first seen.
<b>Did the Observer Sight the SSI before the set?</b>	Circle one of the choices. For instance, circle Yes to indicate that the observer saw the SSI before the set was made. This question is most relevant for PS vessels, but should be answered for all gears.

**SPECIES LANDED ON DECK:**

<b>USE THESE CONDITION CODES</b>	<b>A0</b> - Alive but unable to describe condition.	<i>Normally use one GEN-2 for every SSI landed, but if many animals are landed in a PS set use the GEN-2 supplement to record condition, length, and sex of up to 30; then use a PS-4 to record lengths if more than 30.</i>		
	<b>A1</b> - Alive and healthy.			
	<b>A2</b> - Alive, but injured or distressed.			
	<b>A3</b> - Alive, but unlikely to live.			
	<b>A4</b> - Entangled, okay.		<b>D</b> - Dead	<b>U</b> - Condition unknown.
	<b>A5</b> - Entangled, injured.		<b>D1</b> - Entangled, dead	<b>U1</b> - Entangled, unknown condition.
	<b>A6</b> - Hooked, externally, injured.		<b>D2</b> - Hooked, externally, dead.	<b>U2</b> - Hooked, externally, condition unknown
	<b>A7</b> - Hooked, internally, injured.		<b>D3</b> - Hooked, internally, dead.	<b>U3</b> - Hooked, internally, condition unknown.
	<b>A8</b> - Hooked, unknown, injured.		<b>D4</b> - Hooked, unknown, dead.	<b>U4</b> - Hooked, unknown, condition unknown.

<b>Condition description</b>	Write a description of the condition of the species when landed / discarded. This may help to further assess the condition of the landed / discard species.
<b>Describe the Interaction/ treatment/ release</b>	Make detailed notes on the SSI from the moment it interacted with the boat to the point of its release. Continue the description in the journal and record page no. on the form. Refer to WCPFC RHN handling guidelines.
<b>Length / Length code</b>	Measure the species using an UF measurement for any m.mammals, sharks and a CL measurement for turtles.
<b>Sex (M-F-I-U)</b>	M - male, F - Female, I - Indeterminate (checked, but not clear), U - unknown (not checked).
<b>TAGS</b>	Record all details about any tags placed or found on the species here.
<b>Type of Tags</b>	Record if it was a common dart, an archival (stitched inside body), or a pop-up (stitched to the outside of the body) tag.

**INTERACTIONS WITH VESSEL OR VESSEL GEAR:**

*"Interactions" are when a SSI touches, or is directly affected by the presence of the catcher vessel, its gear, or tender vessel. Examples may include: whales/dolphins inside a purse seine net; dolphins riding vessel bow waves; pilot whales waiting near vessel or net to be fed, SSI's hooked on longlines but not landed. Use one form per species per incident. If there are more than five SSI landed from any one set use the supplementary GEN-2 form.*

<b>Vessel's Activity</b>	Tick to indicate the vessel's activity when the interaction was first noted.
<b>Condition - No.</b>	Use <b>GEN-2 condition codes</b> , above, to describe how many of a species are in each condition, at start, and again at end, of the interaction with the vessel or vessel gear.
<b>- Code</b>	
<b>- Description</b>	Add any notes (words) that may help further define condition the SSI condition,. For instance, if it was an A2 condition you could mention that the SSI was 'Bleeding heavily' to clarify its
<b>DESCRIBE INTERACTION and if relevant any TREATMENT / RELEASE</b>	Make detailed notes on the interaction. If more space is needed use the observer's journal and mark the page number here.

**SPECIES SIGHTED:**

*Sightings' refer to SSIs that, as far as an observer can tell, seem not to be directly affected by the vessel's presence. Usually such 'sightings' are at least 100m away. However, when so close, observe carefully for interaction behaviour.*

<b>Vessel's Activity</b>	Tick to indicate the vessel's activity when the interaction was first noted.
<b>Number Sighted</b>	Record the total number of species sighted for this date and time.
<b>Number of Adults</b>	If more than one animal is involved, record the number of adults you can see.
<b>Number of Juvenilles</b>	If you can see juvenilles with the pod of whales or dolphins record the number here. Otherwise record all animals under "number of adults".
<b>Species Behaviour</b>	Describe the behaviour of the animal in the water. Use own words but some technical terms that may be helpful include: <i>wake riding</i> (swimming close behind boat); <i>bow riding</i> (swimming off the bow of the boat); <i>logging</i> (floating motionless in a group); <i>breaching</i> (launching themselves into the air head first and then falling back into the water with a splash); <i>lob tailing</i> (tail slapping); <i>playing</i> (having fun !); etc.
<b>Distance from Vessel (m)</b>	Estimate the distance the species was from the vessel.

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

**FORM GEN - 2**

REVISED MAR. 2014

OBSERVER NAME	VESSEL NAME	OBSERVER TRIP ID NUMBER	PAGE OF
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SPECIES CODE	SPECIES DESCRIPTION
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**THE SPECIES WAS:** Tick to indicate the final encounter of the species with the vessel:  
 SIGHTED ONLY:  INTERACTED WITH THE VESSEL'S GEAR ONLY:  LANDED ON DECK:

TIME OF FIRST OBSERVER SIGHTING	hh: mm	SHIP'S DATE AND TIME	LATITUDE	N S	LONGITUDE	E W
		YY MM DD hh mm	(dd°mm.mmm')		(ddd°mm.mmm')	
DETAILS OF THE FINAL ENCOUNTER (for any landing see PS-2, PL-2, LL-4)						

**DID THE OBSERVER SIGHT THE SPECIES OF SPECIAL INTEREST BEFORE THE SET?** (circle one) **Yes / No / No Set**

**SPECIES LANDED ON DECK:**

<b>CONDITION LANDED:</b>	CONDITION CODE	CONDITION DESCRIPTION
<b>CONDITION DISCARDED</b>	CONDITION CODE	CONDITION DESCRIPTION

DESCRIBE INTERACTION /TREATMENT / RELEASE	LENGTH (cm)
	LENGTH CODE
	SEX (M-F-I-U)

TAGS	RETRIEVED			PLACED		
	TAG NUMBER	TYPE	ORGANISATION	TAG NUMBER	TYPE	ORGANISATION

**INTERACTIONS WITH VESSEL OR VESSEL GEAR:**

VESSEL ACTIVITY DURING INTERACTION: → SETTING  HAULING  SEARCHING  TRANSITING  OTHER (specify)

CONDITION	START of INTERACTION:	No.	Condition Code	CONDITION DESCRIPTION	END of INTERACTION:	No.	Condition Code	CONDITION DESCRIPTION

DESCRIBE INTERACTION and if relevant any TREATMENT / RELEASE

**SPECIES SIGHTED**

VESSEL ACTIVITY WHEN SIGHTED: → SETTING  HAULING  SEARCHING  TRANSITING  OTHER (specify)

NUMBER SIGHTED	NUMBER OF ADULTS	NUMBER OF JUVENILES	ESTIMATE THE OVERALL LENGTH(s) (From the head to the tail)

DISTANCE FROM VESSEL	SPECIES BEHAVIOUR WHEN SIGHTED

m

<b>Observer Name</b>	Print your name in full. First name first, then your family name (e.g "John Masa").
<b>Vessel Name</b>	Print the vessel's name in full. Do not use abbreviations.
<b>Observer Trip ID Number</b>	This is the number issued by your observer programme. It will be the same all trip.
<b>Page of</b>	Number all the GEN-2 forms together, in sequence. Continue until the trip is complete.
<b>Species Code</b>	Use the three-letter FAO species code.
<b>Species Description</b>	Use this field to describe some of the identifying features of the species. This may help us to correctly identify the species. Consider the colour, any distinctive markings, the shape of the head, fins, tail, the position of the blow hole and the place of the fins in relation to other body parts.
<b>Tick to indicate the FINAL encounter</b>	Tick one box only - to indicate the FINAL encounter the species of special interest had with the vessel. For instance, if you saw a marine mammal that was interacting with the vessel (swimming around the vessel) and it was subsequently landed, tick 'landed on deck'.
<b>Time of first observer sighting</b>	Note the time the observer FIRST noted the species of special interest.
<b>Details of the FINAL encounter</b> (for any landings see PS-2, PL-2 or LL-4)	Note the ship's date and time, and the position at the start of the final encounter. For instance, if the final encounter was an interaction mark the time, date and position of the start of the interaction. Otherwise record the details for when the observer first noted the SSI during the interaction. If the final encounter is landed on deck you must record the start of set ship's time from PS-2, PL-2 or the ship's time landed from
<b>Latitude / Longitude</b>	Note start of set position for species landed on deck. If a species was only sighted or only interacted with gear, note position the vessel was in when species was first seen.
<b>Did the Observer Sight the SSI before the set?</b>	Circle one of the choices. For instance, circle Yes to indicate that the observer saw the SSI before the set was made. This question is most relevant for PS vessels, but should be answered for all gears.

**SPECIES LANDED ON DECK:**

<b>USE THESE CONDITION CODES</b>	<b>A0</b> - Alive but unable to describe condition.	<i>Normally use one GEN-2 for every SSI landed, but if many animals are landed in a PS set use the GEN-2 supplement to record condition, length, and sex of up to 30; then use a PS-4 to record lengths if more than 30.</i>		
	<b>A1</b> - Alive and healthy.			
	<b>A2</b> - Alive, but injured or distressed.			
	<b>A3</b> - Alive, but unlikely to live.			
	<b>A4</b> - Entangled, okay.		<b>D</b> - Dead	<b>U</b> - Condition unknown.
	<b>A5</b> - Entangled, injured.		<b>D1</b> - Entangled, dead	<b>U1</b> - Entangled, unknown condition.
	<b>A6</b> - Hooked, externally, injured.		<b>D2</b> - Hooked, externally, dead.	<b>U2</b> - Hooked, externally, condition unknown.
	<b>A7</b> - Hooked, internally, injured.		<b>D3</b> - Hooked, internally, dead.	<b>U3</b> - Hooked, internally, condition unknown.
	<b>A8</b> - Hooked, unknown, injured.		<b>D4</b> - Hooked, unknown, dead.	<b>U4</b> - Hooked, unknown, condition unknown.

<b>Condition description</b>	Write a description of the condition of the species when landed / discarded. This may help to further assess the condition of the landed / discard species.
<b>Describe the Interaction/ treatment/ release</b>	Make detailed notes on the SSI from the moment it interacted with the boat to the point of its release. Continue the description in the journal and record page no. on the form. Refer to WCPFC RHN handling guidelines.
<b>Length / Length code</b>	Measure the species using an UF measurement for any m.mammals, sharks and a CL measurement for turtles.
<b>Sex (M-F-I-U)</b>	M - male, F - Female, I - Indeterminate (checked, but not clear), U - unknown (not checked).

**TAGS**

Record all details about any tags placed or found on the species here.

<b>Type of Tags</b>	Record if it was a common dart, an archival (stitched inside body), or a pop-up (stitched to the outside of the body) tag.
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**INTERACTIONS WITH VESSEL OR VESSEL GEAR:**

"Interactions" are when a SSI touches, or is directly affected by the presence of the catcher vessel, its gear, or tender vessel. Examples may include: whales/dolphins inside a purse seine net; dolphins riding vessel bow waves; pilot whales waiting near vessel or net to be fed, SSI's hooked on longlines but not landed. **Use one form per species per incident. If there are more than five SSI landed from any one set use the supplementary GEN-2 form.**

<b>Vessel's Activity</b>	Tick to indicate the vessel's activity when the interaction was first noted.
<b>Condition - No.</b>	Use <b>GEN-2 condition codes</b> , above, to describe how many of a species are in each condition, at start, and again at end, of the interaction with the vessel or vessel gear.
<b>- Code</b>	
<b>- Description</b>	Add any notes (words) that may help further define condition the SSI condition,. For instance, if it was an A2 condition you could mention that the SSI was 'Bleeding heavily' to clarify its
<b>DESCRIBE INTERACTION and if relevant any TREATMENT / RELEASE</b>	Make detailed notes on the interaction. If more space is needed use the observer's journal and mark the page number here.

**SPECIES SIGHTED:**

<i>Sightings' refer to SSIs that, as far as an observer can tell, seem not to be directly affected by the vessel's presence. Usually such 'sightings' are at least 100m away. However, when so close, observe carefully for interaction behaviour.</i>	
<b>Vessel's Activity</b>	Tick to indicate the vessel's activity when the interaction was first noted.
<b>Number Sighted</b>	Record the total number of species sighted for this date and time.
<b>Number of Adults</b>	If more than one animal is involved, record the number of adults you can see.
<b>Number of Juveniles</b>	If you can see juveniles with the pod of whales or dolphins record the number here. Otherwise record all animals under "number of adults".
<b>Species Behaviour</b>	Describe the behaviour of the animal in the water. Use own words but some technical terms that may be helpful include: <i>wake riding</i> (swimming close behind boat); <i>bow riding</i> (swimming off the bow of the boat); <i>logging</i> (floating motionless in a group); <i>breaching</i> (launching themselves into the air head first and then falling back into the water with a splash); <i>lobtailing</i> (tail slapping); <i>playing</i> (having fun !); etc.
<b>Distance from Vessel (m)</b>	Estimate the distance the species was from the vessel.

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

**FORM GEN - 2**

REVISED MAR. 2014

OBSERVER NAME	VESSEL NAME	OBSERVER TRIP ID NUMBER	PAGE OF
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SPECIES CODE	SPECIES DESCRIPTION
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**THE SPECIES WAS:** Tick to indicate the final encounter of the species with the vessel:  
**SIGHTED ONLY:**       **INTERACTED WITH THE VESSEL'S GEAR ONLY:**       **LANDED ON DECK:**

TIME OF FIRST OBSERVER SIGHTING	hh: mm	SHIP'S DATE AND TIME	LATITUDE (dd°mm.mmm')	N S	LONGITUDE (ddd°mm.mmm')	E W
DETAILS OF THE FINAL ENCOUNTER (for any landing see PS-2, PL-2, LL-4)		YY MM DD hh mm				

**DID THE OBSERVER SIGHT THE SPECIES OF SPECIAL INTEREST BEFORE THE SET?** (circle one) **Yes / No / No Set**

**SPECIES LANDED ON DECK:**

<b>CONDITION LANDED:</b>	CONDITION CODE	CONDITION DESCRIPTION
<b>CONDITION DISCARDED</b>	CONDITION CODE	CONDITION DESCRIPTION

DESCRIBE INTERACTION / TREATMENT / RELEASE	LENGTH (cm)
	LENGTH CODE
	SEX (M-F-I-U)

TAGS	RETRIEVED			PLACED		
	TAG NUMBER	TYPE	ORGANISATION	TAG NUMBER	TYPE	ORGANISATION

**INTERACTIONS WITH VESSEL OR VESSEL GEAR:**

VESSEL ACTIVITY DURING INTERACTION: → SETTING  HAULING  SEARCHING  TRANSITING  OTHER (specify)

CONDITION	START of INTERACTION:	No.	Condition Code	CONDITION DESCRIPTION	END of INTERACTION:	No.	Condition Code	CONDITION DESCRIPTION

DESCRIBE INTERACTION and if relevant any TREATMENT / RELEASE

**SPECIES SIGHTED**

VESSEL ACTIVITY WHEN SIGHTED: → SETTING  HAULING  SEARCHING  TRANSITING  OTHER (specify)

NUMBER SIGHTED	NUMBER OF ADULTS	NUMBER OF JUVENILES	ESTIMATE THE OVERALL LENGTH(s) (From the head to the tail)
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DISTANCE FROM VESSEL	SPECIES BEHAVIOUR WHEN SIGHTED
m	

<b>Observer Name</b>	Print your name in full. First name first, then your family name (e.g "John Masa").
<b>Vessel Name</b>	Print the vessel's name in full. Do not use abbreviations.
<b>Observer Trip ID Number</b>	This is the number issued by your observer programme. It will be the same all trip.
<b>Page of</b>	Number all the GEN-2 forms together, in sequence. Continue until the trip is complete.
<b>Species Code</b>	Use the three-letter FAO species code.
<b>Species Description</b>	Use this field to describe some of the identifying features of the species. This may help us to correctly identify the species. Consider the colour, any distinctive markings, the shape of the head, fins, tail, the position of the blow hole and the place of the fins in relation to other body parts.
<b>Tick to indicate the FINAL encounter</b>	Tick one box only - to indicate the FINAL encounter the species of special interest had with the vessel. For instance, if you a marine mammal that was interacting with the vessel (swimming around the vessel) and it was subsequently landed, tick 'landed on deck'.
<b>Time of first observer sighting</b>	Note the time the observer FIRST noted the species of special interest.
<b>Details of the FINAL encounter</b> (for any landings see PS-2, PL-2 or LL-4)	Note the ship's date and time, and the position at the start of the final encounter. For instance, if the final encounter was an interaction mark the time, date and position of the start of the interaction. Otherwise record the details for when the observer first noted the SSI during the interaction. If the final encounter is landed on deck you must record the start of set ship's time from PS-2, PL-2 or the ship's time landed from
<b>Latitude / Longitude</b>	Note start of set position for species landed on deck. If a species was only sighted or only interacted with gear, note position the vessel was in when species was first seen.
<b>Did the Observer Sight the SSI before the set?</b>	Circle one of the choices. For instance, circle Yes to indicate that the observer saw the SSI before the set was made. This question is most relevant for PS vessels, but should be answered for all gears.

**SPECIES LANDED ON DECK:**

<b>USE THESE CONDITION CODES</b>	<b>A0</b> - Alive but unable to describe condition.	<i>Normally use one GEN-2 for every SSI landed, but if many animals are landed in a PS set use the GEN-2 supplement to record condition, length, and sex of up to 30; then use a PS-4 to record lengths if more than 30.</i>		
	<b>A1</b> - Alive and healthy.			
	<b>A2</b> - Alive, but injured or distressed.			
	<b>A3</b> - Alive, but unlikely to live.			
	<b>A4</b> - Entangled, okay.		<b>D</b> - Dead	<b>U</b> - Condition unknown.
	<b>A5</b> - Entangled, injured.		<b>D1</b> - Entangled, dead	<b>U1</b> - Entangled, unknown condition.
	<b>A6</b> - Hooked, externally, injured.		<b>D2</b> - Hooked, externally, dead.	<b>U2</b> - Hooked, externally, condition unknown.
	<b>A7</b> - Hooked, internally, injured.		<b>D3</b> - Hooked, internally, dead.	<b>U3</b> - Hooked, internally, condition unknown.
<b>A8</b> - Hooked, unknown, injured.	<b>D4</b> - Hooked, unknown, dead.	<b>U4</b> - Hooked, unknown, condition unknown.		

<b>Condition description</b>	Write a description of the condition of the species when landed / discarded. This may help to further assess the condition of the landed / discard species.
<b>Describe the Interaction/ treatment/ release</b>	Make detailed notes on the SSI from the moment it interacted with the boat to the point of its release. Continue the description in the journal and record page no. on the form. Refer to WCPFC RHN handling guidelines.
<b>Length / Length code</b>	Measure the species using an UF measurement for any m.mammals, sharks and a CL measurement for turtles.
<b>Sex (M-F-I-U)</b>	M - male, F - Female, I - Indeterminate (checked, but not clear), U - unknown (not checked).

**TAGS**

Record all details about any tags placed or found on the species here.

<b>Type of Tags</b>	Record if it was a common dart, an archival (stitched inside body), or a pop-up (stitched to the outside of the body) tag.
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**INTERACTIONS WITH VESSEL OR VESSEL GEAR:**

"Interactions" are when a SSI touches, or is directly affected by the presence of the catcher vessel, its gear, or tender vessel. Examples may include: whales/dolphins inside a purse seine net; dolphins riding vessel bow waves; pilot whales waiting near vessel or net to be fed, SSI's hooked on longlines but not landed. **Use one form per species per incident. If there are more than five SSI landed from any one set use the supplementary GEN-2 form.**

<b>Vessel's Activity</b>	Tick to indicate the vessel's activity when the interaction was first noted.
<b>Condition - No.</b>	Use <b>GEN-2 condition codes</b> , above, to describe how many of a species are in each condition, at start, and again at end, of the interaction with the vessel or vessel gear.
<b>- Code</b>	
<b>- Description</b>	

<b>DESCRIBE INTERACTION and if relevant any TREATMENT / RELEASE</b>	Make detailed notes on the interaction. If more space is needed use the observer's journal and mark the page number here.
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**SPECIES SIGHTED:**

<i>Sightings' refer to SSIs that, as far as an observer can tell, seem not to be directly affected by the vessel's presence. Usually such 'sightings' are at least 100m away. However, when so close, observe carefully for interaction behaviour.</i>	
<b>Vessel's Activity</b>	Tick to indicate the vessel's activity when the interaction was first noted.
<b>Number Sighted</b>	Record the total number of species sighted for this date and time.
<b>Number of Adults</b>	If more than one animal is involved, record the number of adults you can see.
<b>Number of Juveniles</b>	If you can see juveniles with the pod of whales or dolphins record the number here. Otherwise record all animals under "number of adults".
<b>Species Behaviour</b>	Describe the behaviour of the animal in the water. Use own words but some technical terms that may be helpful include: <i>wake riding</i> (swimming close behind boat); <i>bow riding</i> (swimming off the bow of the boat); <i>logging</i> (floating motionless in a group); <i>breaching</i> (launching themselves into the air head first and then falling back into the water with a splash); <i>lobtailing</i> (tail slapping); <i>playing</i> (having fun !); etc.
<b>Distance from Vessel (m)</b>	Estimate the distance the species was from the vessel.

**SPC/FFA REGIONAL OBSERVER  
SPECIES OF SPECIAL INTEREST - multi-landings**

**Supplement to  
FORM GEN-2**

REV. MAR. 2014

OBSERVER NAME	OBSERVER TRIP ID NUMBER	SUPPLEMENT TO GEN-2 FORM:	PAGE	OF
VESSEL NAME		<i>(from GEN-2 form)</i>		
MEASURING INSTRUMENT		START OF SET DATE AND TIME		
		Y Y	M M	D D h h m m

SPECIES AND SEX	LENGTH	CONDITION		DESCRIPTION - any extra words that will help describe condition (interaction, treatment, any handling and release.)
		CODE	DESCRIPTION	
<b>1</b>	SP. CODE (cm)	LANDED		
	SEX (M-F-I-U) CODE	DISCARD		
<b>2</b>	SP. CODE (cm)	LANDED		
	SEX (M-F-I-U) CODE	DISCARD		
<b>3</b>	SP. CODE (cm)	LANDED		
	SEX (M-F-I-U) CODE	DISCARD		
<b>4</b>	SP. CODE (cm)	LANDED		
	SEX (M-F-I-U) CODE	DISCARD		
<b>5</b>	SP. CODE (cm)	LANDED		
	SEX (M-F-I-U) CODE	DISCARD		
<b>6</b>	SP. CODE (cm)	LANDED		
	SEX (M-F-I-U) CODE	DISCARD		
<b>7</b>	SP. CODE (cm)	LANDED		
	SEX (M-F-I-U) CODE	DISCARD		
<b>8</b>	SP. CODE (cm)	LANDED		
	SEX (M-F-I-U) CODE	DISCARD		
<b>9</b>	SP. CODE (cm)	LANDED		
	SEX (M-F-I-U) CODE	DISCARD		
<b>10</b>	SP. CODE (cm)	LANDED		
	SEX (M-F-I-U) CODE	DISCARD		
<b>11</b>	SP. CODE (cm)	LANDED		
	SEX (M-F-I-U) CODE	DISCARD		
<b>12</b>	SP. CODE (cm)	LANDED		
	SEX (M-F-I-U) CODE	DISCARD		
<b>13</b>	SP. CODE (cm)	LANDED		
	SEX (M-F-I-U) CODE	DISCARD		
<b>14</b>	SP. CODE (cm)	LANDED		
	SEX (M-F-I-U) CODE	DISCARD		
<b>15</b>	SP. CODE (cm)	LANDED		
	SEX (M-F-I-U) CODE	DISCARD		

16	SP. CODE	(cm)	LANDED	
	SEX (M-F-I-U)	CODE	DISCARD	
17	SP. CODE	(cm)	LANDED	
	SEX (M-F-I-U)	CODE	DISCARD	
18	SP. CODE	(cm)	LANDED	
	SEX (M-F-I-U)	CODE	DISCARD	
19	SP. CODE	(cm)	LANDED	
	SEX (M-F-I-U)	CODE	DISCARD	
20	SP. CODE	(cm)	LANDED	
	SEX (M-F-I-U)	CODE	DISCARD	
21	SP. CODE	(cm)	LANDED	
	SEX (M-F-I-U)	CODE	DISCARD	
22	SP. CODE	(cm)	LANDED	
	SEX (M-F-I-U)	CODE	DISCARD	
23	SP. CODE	(cm)	LANDED	
	SEX (M-F-I-U)	CODE	DISCARD	
24	SP. CODE	(cm)	LANDED	
	SEX (M-F-I-U)	CODE	DISCARD	
25	SP. CODE	(cm)	LANDED	
	SEX (M-F-I-U)	CODE	DISCARD	
26	SP. CODE	(cm)	LANDED	
	SEX (M-F-I-U)	CODE	DISCARD	
27	SP. CODE	(cm)	LANDED	
	SEX (M-F-I-U)	CODE	DISCARD	
28	SP. CODE	(cm)	LANDED	
	SEX (M-F-I-U)	CODE	DISCARD	
29	SP. CODE	(cm)	LANDED	
	SEX (M-F-I-U)	CODE	DISCARD	
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Further comment on sampling procedures:

Are more measurements of these animals recorded on a PS-4 form: Yes / No



**SPC/FFA REGIONAL OBSERVER  
SPECIES OF SPECIAL INTEREST - multi-landings**

**Supplement to  
FORM GEN-2**

REV. MAR. 2014

OBSERVER NAME		OBSERVER TRIP ID NUMBER	SUPPLEMENT TO GEN-2 FORM: _____		PAGE _____	OF _____
VESSEL NAME		MEASURING INSTRUMENT		START OF SET DATE AND TIME (from GEN-2 form)		
				Y Y	M M	D D h h m m

SPECIES AND SEX	LENGTH	CONDITION		DESCRIPTION - any extra words that will help describe condition (interaction, treatment, any handling and release.)
		CODE		
1	SP. CODE (cm)	LANDED		
	SEX (M-F-I-U) CODE	DISCARD		
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	SEX (M-F-I-U) CODE	DISCARD		
3	SP. CODE (cm)	LANDED		
	SEX (M-F-I-U) CODE	DISCARD		
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	SEX (M-F-I-U) CODE	DISCARD		
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	SEX (M-F-I-U) CODE	DISCARD		

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17	SP. CODE	(cm)	LANDED	
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Further comment on sampling procedures:

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**SPC/FFA REGIONAL OBSERVER  
SPECIES OF SPECIAL INTEREST - multi-landings**

**Supplement to  
FORM GEN-2**

REV. MAR. 2014

OBSERVER NAME	OBSERVER TRIP ID NUMBER	SUPPLEMENT TO GEN-2 FORM: <span style="float:right">PAGE OF</span> <i>(from GEN-2 form)</i>
VESSEL NAME	MEASURING INSTRUMENT	START OF SET DATE AND TIME Y Y    M M    D D    h h    m m

	SPECIES AND SEX	LENGTH	CONDITION	
			CODE	DESCRIPTION - any extra words that will help describe condition (interaction, treatment, any handling and release.)
<b>1</b>	SP. CODE	(cm)	LANDED	
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*Further comment on sampling procedures:*

Are more measurements of these animals recorded on a PS-4 form: Yes / No

**SPC/FFA REGIONAL OBSERVER  
SPECIES OF SPECIAL INTEREST - multi-landings**

**Supplement to  
FORM GEN-2**

REV. MAR. 2014

OBSERVER NAME	OBSERVER TRIP ID NUMBER	SUPPLEMENT PAGE OF TO GEN-2 FORM: (from GEN-2 form)
VESSEL NAME	MEASURING INSTRUMENT	START OF SET DATE AND TIME Y Y M M D D h h m m

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**SPC/FFA REGIONAL OBSERVER  
SPECIES OF SPECIAL INTEREST - multi-landings**

**Supplement to  
FORM GEN-2**

REV. MAR. 2014

OBSERVER NAME	OBSERVER TRIP ID NUMBER	SUPPLEMENT TO GEN-2 FORM: _____	PAGE _____	OF _____
VESSEL NAME		MEASURING INSTRUMENT		(from GEN-2 form)
START OF SET DATE AND TIME				
Y	Y	M	M	D
h	h	m	m	m

SPECIES AND SEX		LENGTH	CONDITION	
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OBSERVER  
PROGRAMME:SPC/FFA REGIONAL OBSERVER  
VESSEL TRIP REPORT

FORM GEN - 3

(pg 1)

REVISED MAR. 2014

Observer NAME		<b><i>This form <u>must</u> be filled in by the observer for every trip</i></b>			NATIONALITY OF BOARDING VESSEL IF BOARDED DURING TRIP AT SEA:	
Obs. NATIONALITY	TRIP ID NUMBER	COASTAL STATE LICENCES (IF ANY)				
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.
Observer rights / social behaviour	RS -a	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		
	RS -b	Request that an event not be reported by the observer		
	RS -c	Mistreat other crew		
	RS -d	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		
National regulations	NR -a	Fish in areas where the vessel is not permitted to fish		
	NR -b	Target species other than those they are licenced to target		
	NR -c	Use a fishing method other than the method the vessel was designed or licensed		
	NR -d	Not display or present a valid (and current) licence document onboard		
	NR -e	Transfer or transship fish from or to another vessel		
	NR -f	Was involved in bunkering activities		
	NR -g	Fail to stow fishing gear when entering areas where vessel is not authorised to fish		
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 FAD during FAD Closure		
Logsheet recording - Position Logsheet recording - Catch	LP -a	Inaccurately record vessel position on vessel log sheets for sets, hauling and catch		
	LP -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)		
	LC -a	Inaccurately record retained "Target Species" in the Vessel logs [or weekly reports]		
	LC -b	Inaccurately record "Target Species" Discards		
	LC -c	Record target species inaccurately [eg. combine bigeye/yellowfin/skipjack catch]		
	LC -d	Not record bycatch discards		
SSIs	SI -a	Land on deck Species of Special Interest (SSI) (eg. Marine mammals, turtles seabirds or protected sharks)		
	SI -b	Interact (not land) with SSIs		
Pollution	PN -a	Dispose of any metals, plastics, chemicals or old fishing gear		
	PN -b	Discharge any oil		
	PN -c	Lose any fishing gear		
	PN -d	Abandon any fishing gear		
	PN -e	Fail to report any abandoned gear		
Sea safety	SS -a	Fail to monitor international safety frequencies		
	SS -b	Carry out-of-date safety equipment		

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 w here 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:**

<b>Observer rights / social behaviour</b>	<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?
<b>National/regulations</b>	<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
	<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
<b>WCPFC CMMs</b>	<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>Incorrectly dispose of fish offal</b> Did 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.



**VESSEL TRIP REPORT**

Form GEN-3 (pg2) Notes

<b>Logsheets recording - Position</b>	<p><b>LP-a 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. 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>LP-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>
<b>Logsheets Recording – Catch</b>	<p><b>LC-a 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>LC-b Inaccurately record "Target Species" Discards</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>LC-c Record target species inaccurately</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>LC-d Not record bycatch discards</b> Report any attempt to not report any fish, shark, reptile or mammal species - retained or discarded.</p>
	<p><b>LC-e Inaccurately record retained bycatch species</b> Report if vessel wrongly reports retained bycatch species.</p>
	<p><b>LC-f Inaccurately record discarded bycatch species</b> Report if vessel wrongly reports discarded bycatch species.</p>

<b>SSIs</b>	<p><b>SI-a 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>SI-b Interact (not land) with SSIs (e.g. Marine mammals, turtle or whale sharks)</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>

<b>Pollution</b> <small>(see MARPOL explanation on GEN-6)</small>	<p><b>PN-a Dispose of any metals, plastics, chemicals or old fishing gear</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>PN-b Discharge any oil</b> Was any fuel oil spilled or dumped within 50 nautical miles of shore ?</p>
	<p><b>PN-c Lose any fishing gear</b> Was any fishing gear lost during this trip ?</p>
	<p><b>PN-d Abandon any fishing gear</b> Was any fishing gear dumped or abandoned by the observer's host vessel ?</p>
	<p><b>PN-e Fail to report any abandoned gear</b> Did vessel not report any lost fishing gear (IF REQUIRED by the country in which waters it is fishing) ?</p>

<b>Sea safety</b>	<p><b>SS-a Fail to monitor international Safety frequencies</b> Does the vessel keep its radio tuned into and turned onto the international distress, safety and calling frequencies when it is not communicating ? <u>Frequencies are:</u> 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>SS-b Carry out-of-date safety equipment</b> Was any of the safety equipment (lifeboats, EPIRBs, etc.) out of survey date or in a bad condition ?</p>

OBSERVER PROGRAMME:

**SPC/FFA REGIONAL OBSERVER VESSEL TRIP REPORT**

**FORM GEN - 3**

(pg 1)

REVISED MAR. 2014

Observer NAME		<b><i>This form must be filled in by the observer for every trip</i></b>			NATIONALITY OF BOARDING VESSEL IF BOARDED DURING TRIP AT SEA:	
Obs. NATIONALITY	TRIP ID NUMBER	COASTAL STATE LICENCES (IF ANY)				
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>	RS -a	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		
	RS -b	Request that an event not be reported by the observer		
	RS -c	Mistreat other crew		
	RS -d	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				
<b>National regulations</b>	NR -a	Fish in areas where the vessel is not permitted to fish		
	NR -b	Target species other than those they are licenced to target		
	NR -c	Use a fishing method other than the method the vessel was designed or licensed		
	NR -d	Not display or present a valid (and current) licence document onboard		
	NR -e	Transfer or transship fish from or to another vessel		
	NR -f	Was involved in bunkering activities		
	NR -g	Fail to stow fishing gear when entering areas where vessel is not authorised to fish		
<b>WCPFC CMMS</b>	WC -a	Fail to comply with any Commission Conservation and Management Measures (CMMS)		
	WC -b	High-grade the catch		
	WC -c	Fish on FAD during FAD Closure		
<b>Position recording - Catch</b>	LP -a	Inaccurately record vessel position on vessel log sheets for sets, hauling and catch		
	LP -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>Logsheet recording - Position recording - Catch</b>	LC -a	Inaccurately record retained "Target Species" in the Vessel logs [or weekly reports]		
	LC -b	Inaccurately record "Target Species" Discards		
	LC -c	Record target species inaccurately [eg. combine bigeye/yellowfin/skipjack catch]		
	LC -d	Not record bycatch discards		
	LC -e	Inaccurately record retained bycatch Species		
	LC -f	Inaccurately record discarded bycatch species		
<b>SSIs</b>	SI -a	Land on deck Species of Special Interest (SSI) (eg. Marine mammals, turtles seabirds or protected sharks)		
	SI -b	Interact (not land) with SSIs		
<b>Pollution</b>	PN -a	Dispose of any metals, plastics, chemicals or old fishing gear		
	PN -b	Discharge any oil		
	PN -c	Lose any fishing gear		
	PN -d	Abandon any fishing gear		
	PN -e	Fail to report any abandoned gear		
<b>Sea safety</b>	SS -a	Fail to monitor international safety frequencies		
	SS -b	Carry out-of-date safety equipment		

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 BOARDING 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 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:**

<b>Observer rights / social behaviour</b>	<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?
<b>National regulations</b>	<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 licence 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
	<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
<b>WCPFC CMMs</b>	<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>Incorrectly dispose of fish offal</b> Did 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.





**VESSEL TRIP REPORT**

Form GEN-3 (pg2) Notes

<b>Logsheet recording - Position</b>	<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></p> <p><b>LP-b</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 ?</p> <p><b>LC-a</b> 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></p> <p><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></p> <p><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></p> <p><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></p> <p><b>LC-e</b> Report if vessel wrongly reports retained bycatch species.</p>
	<p><b>Inaccurately record discarded bycatch species</b></p> <p><b>LC-f</b> Report if vessel wrongly reports discarded bycatch species.</p>

<b>SSIs</b>	<p><b>Land on deck Species of Special Interest (SSIs)</b></p> <p>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></p> <p><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>

<b>Pollution</b> <small>(see MARPOL explanation on GEN-6)</small>	<p><b>Dispose of any metals, plastics, chemicals or old fishing gear</b></p> <p><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></p> <p><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></p> <p><b>PN-c</b> Was any fishing gear lost during this trip ?</p>
	<p><b>Abandon any fishing gear</b></p> <p><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></p> <p><b>PN-e</b> Did vessel not report any lost fishing gear (IF REQUIRED by the country in which waters it is fishing) ?</p>

<b>Sea safety</b>	<p><b>Fail to monitor international Safety frequencies</b></p> <p><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 ? <u>Frequencies are:</u> 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></p> <p><b>SS-b</b> Was any of the safety equipment (lifeboats, EPIRBs, etc.) out of survey date or in a bad condition ?</p>



## CONVERSION FACTORS

OBSERVER NAME	OBSERVER TRIP ID No.	PAGE	OF
This header should be filled in completely _____ _____ _____	e.g.: JMA 97- _____ _____ _____	This is page 7 _____ _____ _____	7 _____ _____ _____
MEASURING INSTRUMENT e.g.: SPC 1.5 m Aluminium calipers _____ _____ _____		Total number of GEN-4s forms used in the trip was 19 _____	
MAKE, MODEL AND CAPACITY OF SCALES e.g.: Salzer 100kg dial-faced spring scales _____ _____ _____			

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. (kg.)	LANDED WEIGHT (kg.)	CODE	COMMENTS		
				US	LF	PF	PS	TL	WHOLE	HEAD	TAIL						GUTS	
# 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 TL fin  
 - 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)

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.



**CONVERSION FACTORS**

OBSERVER NAME	OBSERVER TRIP ID No.	PAGE	OF
This header should be filled in completely _____ _____ _____	e.g.: JMA 97- _____ _____ _____	This is page 7 _____ _____ _____	7 _____ _____ _____
MEASURING INSTRUMENT e.g.: SPC 1.5 m Aluminium calipers _____ _____ _____		Total number of GEN-4s forms used in the trip was 19 _____ _____ _____	
MAKE, MODEL AND CAPACITY OF SCALES e.g.: Salzer 100kg dial-faced spring scales _____ _____ _____			

**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. (kg.)	LANDED WEIGHT (kg.)	CODE	COMMENTS		
				US	LF	PF	PS	TL	WHOLE	HEAD	TAIL						GUTS	
# 1	3	1720	BET	152	124	—	—	—	—	—	—	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 TL fin  
 - 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)

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.

## FAD/PAYAO and FLOATING OBJECTS INFORMATION RECORD

Form GEN-5

REVISED MAR. 2014

OBSERVER NAME:	VESSEL NAME:	OBSERVER TRIP ID NUMBER:	PAGE _____ OF _____
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Date <i>(from PS-2)</i>	Time	Set No.	Object number	Origin of FAD	Deployment date	latitude dd°mm.mmm'	N S	and longitude ddd°mm.mmm'	E W	FAD as found	FAD lifted	FAD as left	<i>Comments / Change details</i>
											YES / NO		
<u>FAD materials</u>		<i>net/mesh</i>	<i>net/mesh</i>		Max est.	FAD	FAD	Buoy	FAD / Payao No.	SSI	SSI		
Main materials		<i>size</i>	Attachments	<i>size</i>	depth	length	width	number	and or markings	seen	trapped		
		cm		cm	M	M	M			Y / N / U	Y / N / U		

Date <i>(from PS-2)</i>	Time	Set No.	Object number	Origin of FAD	Deployment date	latitude dd°mm.mmm'	N S	and longitude ddd°mm.mmm'	E W	FAD as found	FAD lifted	FAD as left	<i>Comments / Change details</i>
											YES / NO		
<u>FAD materials</u>		<i>net/mesh</i>	<i>net/mesh</i>		Max est.	FAD	FAD	Buoy	FAD / Payao No.	SSI	SSI		
Main materials		<i>size</i>	Attachments	<i>size</i>	depth	length	width	number	and or markings	seen	trapped		
		cm		cm	M	M	M			Y / N / U	Y / N / U		

Date <i>(from PS-2)</i>	Time	Set No.	Object number	Origin of FAD	Deployment date	latitude dd°mm.mmm'	N S	and longitude ddd°mm.mmm'	E W	FAD as found	FAD lifted	FAD as left	<i>Comments / Change details</i>
											YES / NO		
<u>FAD materials</u>		<i>net/mesh</i>	<i>net/mesh</i>		Max est.	FAD	FAD	Buoy	FAD / Payao No.	SSI	SSI		
Main materials		<i>size</i>	Attachments	<i>size</i>	depth	length	width	number	and or markings	seen	trapped		
		cm		cm	M	M	M			Y / N / U	Y / N / U		

Date <i>(from PS-2)</i>	Time	Set No.	Object number	Origin of FAD	Deployment date	latitude dd°mm.mmm'	N S	and longitude ddd°mm.mmm'	E W	FAD as found	FAD lifted	FAD as left	<i>Comments / Change details</i>
											YES / NO		
<u>FAD materials</u>		<i>net/mesh</i>	<i>net/mesh</i>		Max est.	FAD	FAD	Buoy	FAD / Payao No.	SSI	SSI		
Main materials		<i>size</i>	Attachments	<i>size</i>	depth	length	width	number	and or markings	seen	trapped		
		cm		cm	M	M	M			Y / N / U	Y / N / U		

Diagrams - label with 'Object number'



FAD/PAYAO and FLOATING OBJECT INFORMATION RECORD

*Complete a GEN-5 record for every activity code '9' or '10D' entered on a PS-2, related to any FAD or other floating object described in the 'Floating Object' list on the workbook codes page.  
(except if for same object encountered unchanged within four hours of previous encounter)*

**Observer name, Vessel name** - Print each name out in full.

For example: an observer name = "John Smith"; and a vessel name = "Mahino No 8")

**Observer trip ID number:** - number issued by the authority that placed the observer.

**Page of** : Number "Form GEN-5"s throughout the trip as Page 1, Page 2, Page 3, etc.

At end of trip put the last page number on every page.

For example if there are 10 x FAD Information Forms filled out then the first page will be "Page 1 of 10", the fourth page will be "Page 4 of 10" and the last page will be "Page 10 of 10".

**Date & Time** - Must match the PS-2 form time for the activity code related to this floating object.

Use "Ship's Date" and "Ship's Time" on the ship's clock - the date and time used by crew onboard.

Observers should set their watches to this date and time as soon as they board the vessel.

**Set Number** - If object is involved in a set during this encounter record the same Set No. that is recorded on the daily activity sheet (PS-2). If no set is made record a dash in this space.

**Object Number** - Give new (consecutive) 'Object Number' to each floating object. Start with 001.

If that same object is recognised in future activities use the same 'Object Number' in the record.

If it comes onboard it still gets an Object No. and if returned to water at same place, number stays the same, however if it goes to a different area it gets a new number and a new record is created.

**Origin of FAD** - Try to find out the origin of the object before this current encounter.

Use the "Origin" code that best describes where the FAD or floating object came from.

If you cannot find out where the FAD came from, use the code for "unknown".

If origin not listed use "other" and describe in comments. Also use comments for additional details.

N.B. The difference between Code "5" or "6" and Code "7" is that the FAD in that codes 5 or 6

are used for will have a radio buoy still attached, whereas the FAD (or other floating object)

will no longer have a buoy attached to it.

**Deployment date, latitude and longitude** - If deployment is not actually witnessed by observer

efforts try to get this information from the vessel's records, if applicable. Otherwise enter dashes.

**Buoy number and FAD/PAYO Numbers and markings**

Record any identification numbers seen on any radio buoy (or other buoy) that is attached to the floating object or FAD, or any ID numbers or other markings that can be seen on the FAD/Payao itself.

If only part of an identification number can be seen then record the parts that can be seen and show question marks for letters or numbers that cannot be read (e.g. STV-76??3H)

**SSI seen and SSI trapped** - *circle* 'Y' = yes, 'N' = no; *or* 'U' = unknown

to state if any **Species of Special Interest** (SSI) is seen near the object and again to state if any SSI is

trapped, whether with webbing, ropes, cloth, buckets, between the bars in a rack or other.

NB - use 'N' only if top of FAD (in water) and attachments (when FAD is lifted) are clearly seen.

Write the name of the SSI species in the Comments area and be sure to fill in a GEN-2 form.

**FAD as Found, FAD lifted and FAD as Left**

Shows what an object is when it is found and if it has changed by the time the vessel leaves it.

N.B.: Complete the 'FAD as Found' field only if object was found in the water - if the object is

a FAD being deployed for the first time then only record a dash in the 'FAD as found' field.

Circle YES or NO to show if FAD was lifted from water at any time.

Watch for changes being made to any found floating object before the vessel leaves it adrift again.

If no modifications were made to the object, the 'As found' and 'As Left' fields should be identical.

If object is brought aboard vessel and moved to another area put a dash in the 'FAD as left' field.

A new record will be created if that floating object is redeployed.

**FAD Materials - Main Materials, FAD Attachments and Net/mesh size**

Most materials found in the main body (or platform) of floating objects and those commonly used

for attachments under FADs have codes '1' to '17' in the list under 'FAD materials' on this form.

N.B.: some materials can be used as main material or as attachment materials

so the material codes may be used twice - describing both the main and the attachment materials.

If many materials make up the body of a FAD, list up to 3 of them starting with the most abundant.

If the object has a component not included in the list use other code "17" and describe in comments.

If not sure of the material use unknown code "10" and describe it, if possible.

If possible get diagonal mesh measurements of net used to make the platform and/or attachments

**Max Est Depth** (maximum estimated depth)

Record the estimated depth (**in metres**) below the surface of the water of any objects, streamers

or other equipment attached to the FAD (but not including the anchor rope or chain) at the time

the object is found (or deployed, if the deployment is the reason for this record).

If there are any attachments at all always make an estimate even if estimating depth is very difficult.

- comment on the difficulty.

**Fad Length & Fad Width**

Record dimensions (length and width) of the main body of a floating object or FAD when it is found

(or deployed if the deployment is the reason for this record).

If the object has an irregular shape or is made up of multiple components, imagine a box with

the object in it and record the length and width dimensions of the imaginary box.

**Comments / Change details**

Record any information that will help identify a FAD or floating object and any information

that can help understand why the FAD or floating object works well or doesn't work well.

If a FAD has been changed describe the changes. with notes and refer to more description

that are written in the observer's trip report and/or daily journal.

**Diagrams** - A drawing of an object can be very helpful.

## FAD/PAYAO and FLOATING OBJECTS INFORMATION RECORD

Form GEN-5

REVISED MAR. 2014

OBSERVER NAME:	VESSEL NAME:	OBSERVER TRIP ID NUMBER:	PAGE _____ OF _____
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Date <i>(from PS-2)</i>	Time	Set No.	Object number	Origin of FAD	Deployment date	latitude dd°mm.mmm'	N S	and longitude ddd°mm.mmm'	E W	FAD as found	FAD lifted	FAD as left	<i>Comments / Change details</i>
											YES / NO		
<u>FAD materials</u>		<i>net/mesh</i>	<i>net/mesh</i>		Max est. depth	FAD length	FAD width	Buoy number	FAD / Payao No. and or markings	SSI seen	SSI trapped		
Main materials		<i>size</i>	Attachments									Y / N / U	Y / N / U
			cm				M	M	M				

Date <i>(from PS-2)</i>	Time	Set No.	Object number	Origin of FAD	Deployment date	latitude dd°mm.mmm'	N S	and longitude ddd°mm.mmm'	E W	FAD as found	FAD lifted	FAD as left	<i>Comments / Change details</i>
											YES / NO		
<u>FAD materials</u>		<i>net/mesh</i>	<i>net/mesh</i>		Max est. depth	FAD length	FAD width	Buoy number	FAD / Payao No. and or markings	SSI seen	SSI trapped		
Main materials		<i>size</i>	Attachments									Y / N / U	Y / N / U
			cm				M	M	M				

Date <i>(from PS-2)</i>	Time	Set No.	Object number	Origin of FAD	Deployment date	latitude dd°mm.mmm'	N S	and longitude ddd°mm.mmm'	E W	FAD as found	FAD lifted	FAD as left	<i>Comments / Change details</i>
											YES / NO		
<u>FAD materials</u>		<i>net/mesh</i>	<i>net/mesh</i>		Max est. depth	FAD length	FAD width	Buoy number	FAD / Payao No. and or markings	SSI seen	SSI trapped		
Main materials		<i>size</i>	Attachments									Y / N / U	Y / N / U
			cm				M	M	M				

Date <i>(from PS-2)</i>	Time	Set No.	Object number	Origin of FAD	Deployment date	latitude dd°mm.mmm'	N S	and longitude ddd°mm.mmm'	E W	FAD as found	FAD lifted	FAD as left	<i>Comments / Change details</i>
											YES / NO		
<u>FAD materials</u>		<i>net/mesh</i>	<i>net/mesh</i>		Max est. depth	FAD length	FAD width	Buoy number	FAD / Payao No. and or markings	SSI seen	SSI trapped		
Main materials		<i>size</i>	Attachments									Y / N / U	Y / N / U
			cm				M	M	M				

Diagrams- label with 'Object number'

FAD/PAYAO and FLOATING OBJECT INFORMATION RECORD

*Complete a GEN-5 record for every activity code '9' or '10D' entered on a PS-2, related to any FAD or other floating object described in the 'Floating Object' list on the workbook codes page.  
(except if for same object encountered unchanged within four hours of previous encounter)*

**Observer name, Vessel name** - Print each name out in full.

For example: an observer name = "John Smith"; and a vessel name = "Mahino No 8")

**Observer trip ID number:** - number issued by the authority that placed the observer.

**Page of** : Number "Form GEN-5"s throughout the trip as Page 1, Page 2, Page 3, etc.

At end of trip put the last page number on every page.

For example if there are 10 x FAD Information Forms filled out then the first page will be

"Page 1 of 10", the fourth page will be "Page 4 of 10" and the last page will be "Page 10 of 10".

**Date & Time** - Must match the PS-2 form time for the activity code related to this floating object.

Use "Ship's Date" and "Ship's Time" on the ship's clock - the date and time used by crew onboard.

Observers should set their watches to this date and time as soon as they board the vessel.

**Set Number** - If object is involved in a set during this encounter record the same Set No. that is

recorded on the daily activity sheet (PS-2). If no set is made record a dash in this space.

**Object Number** - Give new (consecutive) 'Object Number' to each floating object. Start with 001.

If that same object is recognised in future activities use the same 'Object Number' in the record.

If it comes onboard it still gets an Object No. and if returned to water at same place, number stays the same, however if it goes to a different area it gets a new number and a new record is created.

**Origin of FAD** - Try to find out the origin of the object before this current encounter.

Use the "Origin" code that best describes where the FAD or floating object came from.

If you cannot find out where the FAD came from, use the code for "unknown".

If origin not listed use "other" and describe in comments. Also use comments for additional details.

N.B. The difference between Code "5" or "6" and Code "7" is that the FAD in that codes 5 or 6

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**Deployment date, latitude and longitude** - If deployment is not actually witnessed by observer

efforts try to get this information from the vessel's records, if applicable. Otherwise enter dashes.

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Record any identification numbers seen on any radio buoy (or other buoy) that is attached to the floating object or FAD, or any ID numbers or other markings that can be seen on the FAD/Payao itself.

If only part of an identification number can be seen then record the parts that can be seen and show question marks for letters or numbers that cannot be read (e.g. STV-76??3H)

**SSI seen and SSI trapped** - *circle* 'Y' = yes, 'N' = no; or 'U' = unknown

to state if any **Species of Special Interest** (SSI) is seen near the object and again to state if any SSI is trapped, whether with webbing, ropes, cloth, buckets, between the bars in a rack or other.

NB - use 'N' only if top of FAD (in water) and attachments (when FAD is lifted) are clearly seen.

Write the name of the SSI species in the Comments area and be sure to fill in a GEN-2 form.

**FAD as Found, FAD lifted and FAD as Left**

Shows what an object is when it is found and if it has changed by the time the vessel leaves it.

N.B.: Complete the 'FAD as Found' field only if object was found in the water - if the object is a FAD being deployed for the first time then only record a dash in the 'FAD as found' field.

Circle YES or NO to show if FAD was lifted from water at any time.

Watch for changes being made to any found floating object before the vessel leaves it adrift again.

If no modifications were made to the object, the 'As found' and 'As Left' fields should be identical.

If object is brought aboard vessel and moved to another area put a dash in the 'FAD as left' field.

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**FAD Materials - Main Materials, FAD Attachments and Net/mesh size**

Most materials found in the main body (or platform) of floating objects and those commonly used for attachments under FADs have codes '1' to '17' in the list under 'FAD materials' on this form.

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If the object has a component not included in the list use other code "17" and describe in comments.

If not sure of the material use unknown code "10" and describe it, if possible.

If possible get diagonal mesh measurements of net used to make the platform and/or attachments

**Max Est Depth** (maximum estimated depth)

Record the estimated depth (**in metres**) below the surface of the water of any objects, streamers or other equipment attached to the FAD (but not including the anchor rope or chain) at the time the object is found (or deployed, if the deployment is the reason for this record).

If there are any attachments at all always make an estimate even if estimating depth is very difficult.

- comment on the difficulty.

**Fad Length & Fad Width**

Record dimensions (length and width) of the main body of a floating object or FAD when it is found (or deployed if the deployment is the reason for this record).

If the object has an irregular shape or is made up of multiple components, imagine a box with the object in it and record the length and width dimensions of the imaginary box.

**Comments / Change details**

Record any information that will help identify a FAD or floating object and any information that can help understand why the FAD or floating object works well or doesn't work well.

If a FAD has been changed describe the changes. with notes and refer to more description that are written in the observer's trip report and/or daily journal.

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## FAD/PAYAO and FLOATING OBJECTS INFORMATION RECORD

Form GEN-5

REVISED MAR. 2014

OBSERVER NAME:	VESSEL NAME:	OBSERVER TRIP ID NUMBER:	PAGE _____ OF _____
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Date <i>(from PS-2)</i>	Time	Set No.	Object number	Origin of FAD	Deployment date	latitude dd°mm.mmm'	N S	and longitude ddd°mm.mmm'	E W	FAD as found	FAD lifted	FAD as left	<i>Comments / Change details</i>
											YES / NO		
<u>FAD materials</u>		<i>net/mesh</i>	<i>net/mesh</i>		Max est.	FAD	FAD	Buoy	FAD / Payao No.	SSI	SSI		
Main materials		<i>size</i>	Attachments	<i>size</i>	depth	length	width	number	and or markings	seen	trapped		
		cm		cm	M	M	M			Y / N / U	Y / N / U		

Date <i>(from PS-2)</i>	Time	Set No.	Object number	Origin of FAD	Deployment date	latitude dd°mm.mmm'	N S	and longitude ddd°mm.mmm'	E W	FAD as found	FAD lifted	FAD as left	<i>Comments / Change details</i>
											YES / NO		
<u>FAD materials</u>		<i>net/mesh</i>	<i>net/mesh</i>		Max est.	FAD	FAD	Buoy	FAD / Payao No.	SSI	SSI		
Main materials		<i>size</i>	Attachments	<i>size</i>	depth	length	width	number	and or markings	seen	trapped		
		cm		cm	M	M	M			Y / N / U	Y / N / U		

Date <i>(from PS-2)</i>	Time	Set No.	Object number	Origin of FAD	Deployment date	latitude dd°mm.mmm'	N S	and longitude ddd°mm.mmm'	E W	FAD as found	FAD lifted	FAD as left	<i>Comments / Change details</i>
											YES / NO		
<u>FAD materials</u>		<i>net/mesh</i>	<i>net/mesh</i>		Max est.	FAD	FAD	Buoy	FAD / Payao No.	SSI	SSI		
Main materials		<i>size</i>	Attachments	<i>size</i>	depth	length	width	number	and or markings	seen	trapped		
		cm		cm	M	M	M			Y / N / U	Y / N / U		

Date <i>(from PS-2)</i>	Time	Set No.	Object number	Origin of FAD	Deployment date	latitude dd°mm.mmm'	N S	and longitude ddd°mm.mmm'	E W	FAD as found	FAD lifted	FAD as left	<i>Comments / Change details</i>
											YES / NO		
<u>FAD materials</u>		<i>net/mesh</i>	<i>net/mesh</i>		Max est.	FAD	FAD	Buoy	FAD / Payao No.	SSI	SSI		
Main materials		<i>size</i>	Attachments	<i>size</i>	depth	length	width	number	and or markings	seen	trapped		
		cm		cm	M	M	M			Y / N / U	Y / N / U		

Diagrams- label with 'Object number'

FAD/PAYAO and FLOATING OBJECT INFORMATION RECORD

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**Deployment date, latitude and longitude** - If deployment is not actually witnessed by observer efforts try to get this information from the vessel's records, if applicable. Otherwise enter dashes.

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NB - use 'N' only if top of FAD (in water) and attachments (when FAD is lifted) are clearly seen.  
Write the name of the SSI species in the Comments area and be sure to fill in a GEN-2 form.

**FAD as Found, FAD lifted and FAD as Left**

Shows what an object is when it is found and if it has changed by the time the vessel leaves it.  
N.B.: Complete the 'FAD as Found' field only if object was found in the water - if the object is a FAD being deployed for the first time then only record a dash in the 'FAD as found' field.  
Circle YES or NO to show if FAD was lifted from water at any time.  
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## FAD/PAYAO and FLOATING OBJECTS INFORMATION RECORD

Form GEN-5

REVISED MAR. 2014

OBSERVER NAME:	VESSEL NAME:	OBSERVER TRIP ID NUMBER:	PAGE _____ OF _____
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Date <i>(from PS-2)</i>	Time	Set No.	Object number	Origin of FAD	Deployment date	latitude dd°mm.mmm'	N S	and longitude ddd°mm.mmm'	E W	FAD as found	FAD lifted	FAD as left	<i>Comments / Change details</i>
											YES / NO		
<b>FAD materials</b>		<i>net/mesh</i>	<i>net/mesh</i>		<b>Max est.</b>	<b>FAD</b>	<b>FAD</b>	<b>Buoy</b>	<b>FAD / Payao No.</b>	<b>SSI</b>	<b>SSI</b>		
<b>Main materials</b>		<i>size</i>	<b>Attachments</b>	<i>size</i>	<b>depth</b>	<b>length</b>	<b>width</b>	<b>number</b>	<b>and or markings</b>	<b>seen</b>	<b>trapped</b>		
		cm		cm	M	M	M			Y / N / U	Y / N / U		

Date <i>(from PS-2)</i>	Time	Set No.	Object number	Origin of FAD	Deployment date	latitude dd°mm.mmm'	N S	and longitude ddd°mm.mmm'	E W	FAD as found	FAD lifted	FAD as left	<i>Comments / Change details</i>
											YES / NO		
<b>FAD materials</b>		<i>net/mesh</i>	<i>net/mesh</i>		<b>Max est.</b>	<b>FAD</b>	<b>FAD</b>	<b>Buoy</b>	<b>FAD / Payao No.</b>	<b>SSI</b>	<b>SSI</b>		
<b>Main materials</b>		<i>size</i>	<b>Attachments</b>	<i>size</i>	<b>depth</b>	<b>length</b>	<b>width</b>	<b>number</b>	<b>and or markings</b>	<b>seen</b>	<b>trapped</b>		
		cm		cm	M	M	M			Y / N / U	Y / N / U		

Date <i>(from PS-2)</i>	Time	Set No.	Object number	Origin of FAD	Deployment date	latitude dd°mm.mmm'	N S	and longitude ddd°mm.mmm'	E W	FAD as found	FAD lifted	FAD as left	<i>Comments / Change details</i>
											YES / NO		
<b>FAD materials</b>		<i>net/mesh</i>	<i>net/mesh</i>		<b>Max est.</b>	<b>FAD</b>	<b>FAD</b>	<b>Buoy</b>	<b>FAD / Payao No.</b>	<b>SSI</b>	<b>SSI</b>		
<b>Main materials</b>		<i>size</i>	<b>Attachments</b>	<i>size</i>	<b>depth</b>	<b>length</b>	<b>width</b>	<b>number</b>	<b>and or markings</b>	<b>seen</b>	<b>trapped</b>		
		cm		cm	M	M	M			Y / N / U	Y / N / U		

Date <i>(from PS-2)</i>	Time	Set No.	Object number	Origin of FAD	Deployment date	latitude dd°mm.mmm'	N S	and longitude ddd°mm.mmm'	E W	FAD as found	FAD lifted	FAD as left	<i>Comments / Change details</i>
											YES / NO		
<b>FAD materials</b>		<i>net/mesh</i>	<i>net/mesh</i>		<b>Max est.</b>	<b>FAD</b>	<b>FAD</b>	<b>Buoy</b>	<b>FAD / Payao No.</b>	<b>SSI</b>	<b>SSI</b>		
<b>Main materials</b>		<i>size</i>	<b>Attachments</b>	<i>size</i>	<b>depth</b>	<b>length</b>	<b>width</b>	<b>number</b>	<b>and or markings</b>	<b>seen</b>	<b>trapped</b>		
		cm		cm	M	M	M			Y / N / U	Y / N / U		

**Diagrams - label with 'Object number'**

FAD/PAYAO and FLOATING OBJECT INFORMATION RECORD

*Complete a GEN-5 record for every activity code '9' or '10D' entered on a PS-2, related to any FAD or other floating object described in the 'Floating Object' list on the workbook codes page.  
(except if for same object encountered unchanged within four hours of previous encounter)*

**Observer name, Vessel name** - Print each name out in full.

For example: an observer name = "John Smith"; and a vessel name = "Mahino No 8")

**Observer trip ID number:** - number issued by the authority that placed the observer.

**Page of** : Number "Form GEN-5"s throughout the trip as Page 1, Page 2, Page 3, etc.

At end of trip put the last page number on every page.

For example if there are 10 x FAD Information Forms filled out then the first page will be

"Page 1 of 10", the fourth page will be "Page 4 of 10" and the last page will be "Page 10 of 10".

**Date & Time** - Must match the PS-2 form time for the activity code related to this floating object.

Use "Ship's Date" and "Ship's Time" on the ship's clock - the date and time used by crew onboard.

Observers should set their watches to this date and time as soon as they board the vessel.

**Set Number** - If object is involved in a set during this encounter record the same Set No. that is

recorded on the daily activity sheet (PS-2). If no set is made record a dash in this space.

**Object Number** - Give new (consecutive) 'Object Number' to each floating object. Start with 001.

If that same object is recognised in future activities use the same 'Object Number' in the record.

If it comes onboard it still gets an Object No. and if returned to water at same place, number stays the

same, however if it goes to a different area it gets a new number and a new record is created.

**Origin of FAD** - Try to find out the origin of the object before this current encounter.

Use the "Origin" code that best describes where the FAD or floating object came from.

If you cannot find out where the FAD came from, use the code for "unknown".

If origin not listed use "other" and describe in comments. Also use comments for additional details.

N.B. The difference between Code "5" or "6" and Code "7" is that the FAD in that codes 5 or 6

are used for will have a radio buoy still attached, whereas the FAD (or other floating object)

will no longer have a buoy attached to it.

**Deployment date, latitude and longitude** - If deployment is not actually witnessed by observer

efforts try to get this information from the vessel's records, if applicable. Otherwise enter dashes.

**Buoy number and FAD/PAYO Numbers and markings**

Record any identification numbers seen on any radio buoy (or other buoy) that is attached to the floating object or FAD, or any ID numbers or other markings that can be seen on the FAD/Payao itself.

If only part of an identification number can be seen then record the parts that can be seen and show question marks for letters or numbers that cannot be read (e.g. STV-76??3H)

**SSI seen and SSI trapped** - circle 'Y' = yes, 'N' = no; or 'U' = unknown

to state if any **Species of Special Interest** (SSI) is seen near the object and again to state if any SSI is trapped, whether with webbing, ropes, cloth, buckets, between the bars in a rack or other.

NB - use 'N' only if top of FAD (in water) and attachments (when FAD is lifted) are clearly seen.

Write the name of the SSI species in the Comments area and be sure to fill in a GEN-2 form.

**FAD as Found, FAD lifted and FAD as Left**

Shows what an object is when it is found and if it has changed by the time the vessel leaves it.

N.B.: Complete the 'FAD as Found' field only if object was found in the water - if the object is a FAD being deployed for the first time then only record a dash in the 'FAD as found' field.

Circle YES or NO to show if FAD was lifted from water at any time.

Watch for changes being made to any found floating object before the vessel leaves it adrift again.

If no modifications were made to the object, the 'As found' and 'As Left' fields should be identical.

If object is brought aboard vessel and moved to another area put a dash in the 'FAD as left' field.

A new record will be created if that floating object is redeployed.

**FAD Materials - Main Materials, FAD Attachments and Net/mesh size**

Most materials found in the main body (or platform) of floating objects and those commonly used for attachments under FADs have codes '1' to '17' in the list under 'FAD materials' on this form.

N.B.: some materials can be used as main material or as attachment materials

so the material codes may be used twice - describing both the main and the attachment materials.

If many materials make up the body of a FAD, list up to 3 of them starting with the most abundant.

If the object has a component not included in the list use other code "17" and describe in comments.

If not sure of the material use unknown code "10" and describe it, if possible.

If possible get diagonal mesh measurements of net used to make the platform and/or attachments

**Max Est Depth** (maximum estimated depth)

Record the estimated depth (**in metres**) below the surface of the water of any objects, streamers or other equipment attached to the FAD (but not including the anchor rope or chain) at the time the object is found (or deployed, if the deployment is the reason for this record).

If there are any attachments at all always make an estimate even if estimating depth is very difficult.

- comment on the difficulty.

**Fad Length & Fad Width**

Record dimensions (length and width) of the main body of a floating object or FAD when it is found (or deployed if the deployment is the reason for this record).

If the object has an irregular shape or is made up of multiple components, imagine a box with the object in it and record the length and width dimensions of the imaginary box.

**Comments / Change details**

Record any information that will help identify a FAD or floating object and any information that can help understand why the FAD or floating object works well or doesn't work well.

If a FAD has been changed describe the changes. with notes and refer to more description that are written in the observer's trip report and/or daily journal.

**Diagrams** - A drawing of an object can be very helpful.



## FAD/PAYAO and FLOATING OBJECTS INFORMATION RECORD

Form GEN-5

REVISED MAR. 2014

OBSERVER NAME:	VESSEL NAME:	OBSERVER TRIP ID NUMBER:	PAGE _____ OF _____
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Date <i>(from PS-2)</i>	Time	Set No.	Object number	Origin of FAD	Deployment date	latitude dd°mm.mmm'	N S	and longitude ddd°mm.mmm'	E W	FAD as found	FAD lifted	FAD as left	<i>Comments / Change details</i>
											YES / NO		
<u>FAD materials</u>		<i>net/mesh</i>	<i>net/mesh</i>		Max est.	FAD	FAD	Buoy	FAD / Payao No.	SSI	SSI		
Main materials		<i>size</i>	Attachments	<i>size</i>	depth	length	width	number	and or markings	seen	trapped		
		cm		cm	M	M	M			Y / N / U	Y / N / U		

Date <i>(from PS-2)</i>	Time	Set No.	Object number	Origin of FAD	Deployment date	latitude dd°mm.mmm'	N S	and longitude ddd°mm.mmm'	E W	FAD as found	FAD lifted	FAD as left	<i>Comments / Change details</i>
											YES / NO		
<u>FAD materials</u>		<i>net/mesh</i>	<i>net/mesh</i>		Max est.	FAD	FAD	Buoy	FAD / Payao No.	SSI	SSI		
Main materials		<i>size</i>	Attachments	<i>size</i>	depth	length	width	number	and or markings	seen	trapped		
		cm		cm	M	M	M			Y / N / U	Y / N / U		

Date <i>(from PS-2)</i>	Time	Set No.	Object number	Origin of FAD	Deployment date	latitude dd°mm.mmm'	N S	and longitude ddd°mm.mmm'	E W	FAD as found	FAD lifted	FAD as left	<i>Comments / Change details</i>
											YES / NO		
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Main materials		<i>size</i>	Attachments	<i>size</i>	depth	length	width	number	and or markings	seen	trapped		
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Date <i>(from PS-2)</i>	Time	Set No.	Object number	Origin of FAD	Deployment date	latitude dd°mm.mmm'	N S	and longitude ddd°mm.mmm'	E W	FAD as found	FAD lifted	FAD as left	<i>Comments / Change details</i>
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Main materials		<i>size</i>	Attachments	<i>size</i>	depth	length	width	number	and or markings	seen	trapped		
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Diagrams - label with 'Object number'

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**Page of** : Number "Form GEN-5"s throughout the trip as Page 1, Page 2, Page 3, etc.

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**Set Number** - If object is involved in a set during this encounter record the same Set No. that is recorded on the daily activity sheet (PS-2). If no set is made record a dash in this space.

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**Origin of FAD** - Try to find out the origin of the object before this current encounter.

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NB - use 'N' only if top of FAD (in water) and attachments (when FAD is lifted) are clearly seen.

Write the name of the SSI species in the Comments area and be sure to fill in a GEN-2 form.

**FAD as Found, FAD lifted and FAD as Left**

Shows what an object is when it is found and if it has changed by the time the vessel leaves it.

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If not sure of the material use unknown code "10" and describe it, if possible.

If possible get diagonal mesh measurements of net used to make the platform and/or attachments

**Max Est Depth** (maximum estimated depth)

Record the estimated depth (**in metres**) below the surface of the water of any objects, streamers

or other equipment attached to the FAD (but not including the anchor rope or chain) at the time

the object is found (or deployed, if the deployment is the reason for this record).

If there are any attachments at all always make an estimate even if estimating depth is very difficult.

- comment on the difficulty.

**Fad Length & Fad Width**

Record dimensions (length and width) of the main body of a floating object or FAD when it is found

(or deployed if the deployment is the reason for this record).

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the object in it and record the length and width dimensions of the imaginary box.

**Comments / Change details**

Record any information that will help identify a FAD or floating object and any information

that can help understand why the FAD or floating object works well or doesn't work well.

If a FAD has been changed describe the changes. with notes and refer to more description

that are written in the observer's trip report and/or daily journal.

**Diagrams** - A drawing of an object can be very helpful.

**SPC/FFA REGIONAL OBSERVER  
POLLUTION REPORT**

**FORM GEN-6**

REVISED MARCH 2014

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

**OIL SPILLAGES AND LEAKAGES**

Source	<i>Tick each box that applies</i>	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	<input type="checkbox"/>		

**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 Regualations - 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;
<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

For Country Codes - see the **Code Page** in your Workbook

**SPC/FFA REGIONAL OBSERVER  
POLLUTION REPORT**

**FORM GEN-6**

REVISED MARCH 2014

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		LONGITUDE		EEZ / HARBOUR	
YY	MM	DD	hh	mm	(dd°mm.mmm')		N / S		(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	Describe Type	Describe Quantity
Plastics		
Metals		
Waste oil		
Chemicals		
General garbage		
<i>(within 12 miles of shoreline)</i>		
<i>describe:</i>		

**OIL SPILLAGES AND LEAKAGES**

Source	Visual Appearance / Colour	Describe Area and Quantity
Vessel Aground / Collision		
Vessel at Anchor / Berth		
Vessel Underway		
Land based source - Describe source		
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 Regualations - 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;
<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

For Country Codes - see the **Code Page** in your Workbook

# SPC/FFA REGIONAL OBSERVER POLLUTION REPORT

## FORM GEN-6

REVISED MARCH 2014

OBSERVER NAME	VESSEL NAME	OBSERVER ID NUMBER	PAGE OF
---------------	-------------	--------------------	---------

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

### OIL SPILLAGES AND LEAKAGES

Source	<small>Tick each box that applies</small>	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	<input type="checkbox"/>		

### 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 Regualations - 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. State the host (observer's) vessel activity at the time of the pollution incident.
<b>Observer's vessel activity</b>	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;
<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

For Country Codes - see the **Code Page** in your Workbook

**SPC/FFA REGIONAL OBSERVER  
POLLUTION REPORT**

**FORM GEN-6**

REVISED MARCH 2014

OBSERVER NAME	VESSEL NAME	OBSERVER ID NUMBER	PAGE OF
---------------	-------------	--------------------	---------

**- 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	Describe Type	Describe Quantity
Plastics		
Metals		
Waste oil		
Chemicals		
General garbage		
<i>(within 12 miles of shoreline)</i>		
<i>describe:</i>		

**OIL SPILLAGES AND LEAKAGES**

Source	Visual Appearance / Colour	Describe Area and Quantity
Vessel Aground / Collision		
Vessel at Anchor / Berth		
Vessel Underway		
Land based source - Describe source		
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. State the host (observer's) vessel activity at the time of the pollution incident.
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<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;
<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'.
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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

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**SPC/FFA REGIONAL OBSERVER  
POLLUTION REPORT**

**FORM GEN-6**

REVISED MARCH 2014

OBSERVER NAME	VESSEL NAME	OBSERVER ID NUMBER	PAGE OF
---------------	-------------	--------------------	---------

**- fill in one form for each pollution incident -**

**INCIDENT DETAILS**

Ship's DATE and TIME					LATITUDE		LONGITUDE		EEZ / HARBOUR	
YY	MM	DD	hh	mm	(dd°mm.mmm')		N / S		(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	Describe Type	Describe Quantity
Plastics		
Metals		
Waste oil		
Chemicals		
General garbage		
<i>(within 12 miles of shoreline)</i>		
<i>describe:</i>		

**OIL SPILLAGES AND LEAKAGES**

Source	Visual Appearance / Colour	Describe Area and Quantity
Vessel Aground / Collision		
Vessel at Anchor / Berth		
Vessel Underway		
Land based source - Describe source		
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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<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>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



**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 !  
BUT 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. Remove the archival tag by cutting the fish from the anus toward the gills (a small cut will be enough, do not pull the antenna).
- 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 transshipment?***

- Ask permission to put the fish aside.
- Note the well number and tag number.
- Verify that there is no archival tag in the belly. You should be able to see the antenna of the archival tag sticking out. Remove the archival tag by cutting the fish from the anus toward the gills (a small cut will be enough, do not pull the antenna).
- 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 if there were several sets in the well, report the period and the position 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.
- 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 provide assistance to 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 you find a tag**, to claim your reward you need to give the tag to a TRO. In PNG (Wewak, Madang, Lae), in Solomon (Honiara), in FSM (Pohnpei) and Marshall (Majuro) these TRO will debrief you on the tag recoveries and will collect your forms from your workbook.

In other regions, you can remove the tag from the recovery form (do not remove the tag recovery form from your workbook). Inform the TRO that all information related to the tag has been provided in your observer workbook. If you can make a copy of the tag recovery form provide it to the TRO. If it is not possible to make a copy of the form, give him your trip ID number (so we can find your workbook and retrieve the tag recovery forms).

**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.

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

## Reward Collection Locations

### American Samoa

1. CIFFO – Cook Island Field Fisheries Office PAGOPAGO  
(Contact: Isaiah Hunkin)

### 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: Francisco Robayo)

### Federated States of Micronesia

1. Secretariat of the Pacific Community POHNPEI  
(Contact: Amelia Antreas)
2. National Oceanic Resource Management Authority POHNPEI  
(Contact: Roland Halichimal)

### Fiji

1. Secretariat of the Pacific Community SUVA  
(Contact: Front Office)

### Guam

1. Guam Fishermen's Cooperative Association GUAM  
(Contact: Manuel Duenas)

### 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)
2. Ministry of Fisheries & Marine Resource Development,  
CHRISTMAS ISLAND (Contact: Taratau Kirata)

### Korea

1. National Fisheries Research and Development Institute BUSAN  
(Contact: Seon Jae Wang (황선재))

### Marshall Islands

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

### New Caledonia

1. Secretariat of the Pacific Community NOUMEA  
(Contact: Caroline Sanchez)

### Papua New Guinea

1. National Fisheries Authority PORT MORESBY  
(Contact: Benthly Sabub)
2. National Fisheries Authority LAE  
(Contact: Walter Rupo / Billy Pangi.)
3. Erabelle 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 RABAUL (Contact: Ellison Semi)

### 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: Julien Million)

### Solomon Islands

1. Ministry of Fisheries & Marine Resources HONIARA  
(Contact: Derrick Tagosia)
2. Forum Fisheries Agency HONIARA  
(Contact: Ambrose Orianihaa)
3. Soltaj Fishing NORO (Contact: Solomon Kakana)
4. Ministry of Fisheries & Marine Resources NORO  
(Contact: Derick Suimae)

### Taiwan

1. Taiwan Deep Sea Tuna Purse Seiners Association KAOHSIUNG  
(Contact: Jason Tsai)
2. Overseas Fisheries Development Council KAOHSIUNG  
(Contact: Peter Ho (何勝初))

### Thailand

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

### United States of America

1. Inter American Tropical Tuna Commission SANDIEGO  
(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)



# HOW TO FILL THE TAG RECOVERY FORM

REVISED SPC - Nov. 2011

PAGE \_\_\_\_\_ OF \_\_\_\_\_

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 did you find the tagged fish?

What were you doing when you found the tagged fish?

Are you sure about the identification?

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

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

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

Choose one option to describe the processed state.

If you know exactly when and where the fish was caught.

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

Name of the vessel that caught the tagged fish.

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

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.

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).

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

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

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.

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


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. You can attach the tag here :

No. P-48854 SPC NOUMEA - REWARD - www.spc.int/tagging No. P-48854

TAG NUMBER: <input type="text" value="No. P-48854"/>		DATE WHEN TAG FOUND: DD MM YY		
WHERE FOUND:	<input type="checkbox"/> Port Fish market	<input type="checkbox"/> Cold storage		
ACTIVITY WHEN FOUND:	<input type="checkbox"/> Unloading at port	WELL NUMBER WHERE FISH FOUND: (If Applicable)		
SPECIES: Specie code		SPECIES RELIABILITY: <input type="checkbox"/> Confirmed <input type="checkbox"/> Guessed		
Upper jaw to FORK	NO length information <input checked="" type="checkbox"/>	Other... Please specify:		
PROCESSED STATE WHEN MEASURED:		<input type="checkbox"/> Fresh	<input type="checkbox"/> Frozen	<input type="checkbox"/> Frozen then thawed
FISH WEIGHT	NO weight information <input checked="" type="checkbox"/>	HOW WEIGHED? <input type="checkbox"/> M <input type="checkbox"/> F		
PROCESSED STATE WHEN WEIGHED:		<input type="checkbox"/> Whole weight	<input type="checkbox"/> Gilled & gutted	<input type="checkbox"/> Other... please specify:
DATE	Exact <input checked="" type="checkbox"/>	05	02	11
POSITION	Exact <input checked="" type="checkbox"/>	Record 2 lines of latitude and 2 of longitude to form box in which tag was likely recovered		
	Latitude	dd mm.mmm N/S		
	Longitude	ddd mm.mmm E/W		
Latitude	Min Max	05° 00'	02.500' N	145° 150' E
Longitude		140° 150' E	12.300' E	20.450' E
VESSEL NAME: _____				
FISHING METHOD: _____				
SCHOOL TYPE: _____				
COUNTRY OF RECOVERY: _____				
TAG PROVIDED WITH THIS FORM: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (tag kept for reward)				
TYPE OF REWARD: <input checked="" type="checkbox"/> Not Given <input type="checkbox"/> T-shirt <input type="checkbox"/> Cap <input type="checkbox"/> Cash				
FORM COMPLETED BY: Your name				
COMMENTS: _____				

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

## HOW TO FILL THE MULTIPLE TAG RECOVERY FORM

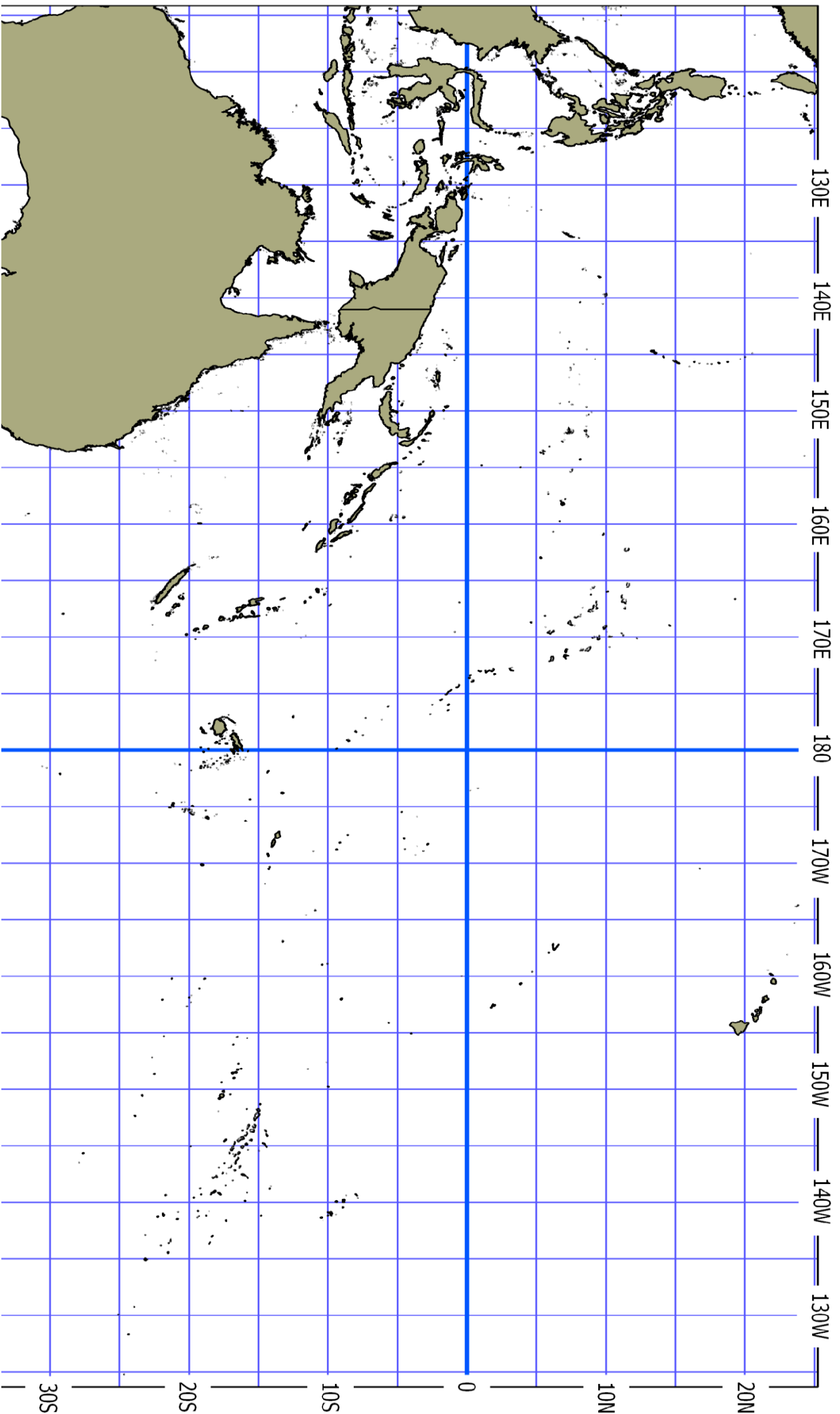
<b>SPC MULTIPLE TAG RECOVERY FORM</b> MULTIPLE TAGGED FISH FOUND THE SAME DAY, COMING FROM				Indicate if you have more than 1 series of multiple tag recoveries.	PAGE / OF
Where did you find the tagged fish?		DATE WHEN TAG FOUND: DD MM YY 26 08 11		Note the date when the tags were first found. If you don't have an exact date, place a dash in the day field and note the month and/or year.	
WHERE FOUND: <input checked="" type="checkbox"/> Fishing vessel		<input type="checkbox"/> Reefer / Transfer / Carrier		(If Applicable)	
ACTIVITY WHEN FOUND: <input checked="" type="checkbox"/> Fishing		What were you doing when you found the tagged fish?		WELL NUMBER WHERE FISH FOUND:	
TAG NUMBER:		SPECIES: <input checked="" type="checkbox"/> SKJ <input type="checkbox"/> BET <input type="checkbox"/> YFT		If the tagged fish come from a well, note the number and position (Eg: S2 for starboard well #2). It is very important to note this information first and then you can determine which sets composed this well from your logbook.	
FORK LENGTH cm 		NO length information <input type="checkbox"/>		HOW MEASURED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated	
TAG NUMBER: P-234587		SPECIES: <input type="checkbox"/> SKJ <input type="checkbox"/> BET <input type="checkbox"/> YFT <input type="checkbox"/> Other please specify:		IDENTIFICATION: <input type="checkbox"/> Confirmed <input type="checkbox"/> Guessed	
FORK LENGTH cm NO length information <input type="checkbox"/>		HOW MEASURED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated		PROCESSED STATE WHEN WEIGHED:	
FISH 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....	
TAG NUMBER:		SPECIES: <input type="checkbox"/> SKJ <input type="checkbox"/> BET <input type="checkbox"/> YFT <input type="checkbox"/> Other please specify:		IDENTIFICATION: <input type="checkbox"/> Confirmed <input type="checkbox"/> Guessed	
FORK LENGTH 65 cm		Note the size of the fish, round down to the nearest cm (Eg: 65.7cm=65)		Fresh <input type="checkbox"/> Frozen	
FISH WEIGHT 1.8 Kg		Note the exact weight of the fish (Eg: 1.8 kg).		Select 'Fresh' for a tagged fish caught during fishing time. Select 'Frozen' if found during well transfer/unloading.	
Were the size and weight measured with an instrument or estimated?		SPECIES: <input type="checkbox"/> SKJ <input type="checkbox"/> BET <input type="checkbox"/> YFT <input type="checkbox"/> Other please specify:		IDENTIFICATION: <input type="checkbox"/> Confirmed <input type="checkbox"/> Guessed	
FORK LENGTH cm NO length information <input type="checkbox"/>		HOW MEASURED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated		PROCESSED STATE WHEN MEASURED:	
FISH 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....	
TAG NUMBER:		SPECIES: <input type="checkbox"/> SKJ <input type="checkbox"/> BET <input type="checkbox"/> YFT <input type="checkbox"/> Other please specify:		IDENTIFICATION: <input type="checkbox"/> Confirmed <input type="checkbox"/> Guessed	
FORK LENGTH cm NO length information <input checked="" type="checkbox"/>		If there is no length, place a cross and move to the next section.		Other....	
FISH WEIGHT Kg NO weight information <input checked="" type="checkbox"/>		If there is no weight, place a cross and move to the next section.		Other....	
TAG NUMBER: P-195236		SPECIES: <input checked="" type="checkbox"/> SKJ <input type="checkbox"/> BET <input type="checkbox"/> YFT <input type="checkbox"/> Other please specify:		IDENTIFICATION: <input checked="" type="checkbox"/> Confirmed <input type="checkbox"/> Guessed	
FORK LENGTH 46 cm		HOW MEASURED? <input checked="" type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated		PROCESSED STATE WHEN MEASURED: <input checked="" type="checkbox"/> Fresh <input type="checkbox"/> Frozen	
FISH WEIGHT 1 Kg		HOW WEIGHED? <input checked="" type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated		PROCESSED STATE WHEN WEIGHED: <input checked="" type="checkbox"/> Whole weight <input type="checkbox"/> Gilled & gutted <input type="checkbox"/> Other....	
TAG NUMBER: P-278564		SPECIES: <input type="checkbox"/> SKJ <input type="checkbox"/> BET <input checked="" type="checkbox"/> YFT <input type="checkbox"/> Other please specify:		IDENTIFICATION: <input checked="" type="checkbox"/> Confirmed <input type="checkbox"/> Guessed	
FORK LENGTH 85 cm		HOW MEASURED? <input checked="" type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated		PROCESSED STATE WHEN MEASURED: <input checked="" type="checkbox"/> Fresh <input type="checkbox"/> Frozen	
FISH WEIGHT 5.9 Kg		HOW WEIGHED? <input checked="" type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated		PROCESSED STATE WHEN WEIGHED: <input checked="" type="checkbox"/> Whole weight <input type="checkbox"/> Gilled & gutted <input type="checkbox"/> Other....	

### WHEN TO USE AND HOW TO COMPLETE THE MULTIPLE TAG RECOVERY FORM

This multiple tag recovery form is meant to be used when a finder recovers up to 8 tagged fish the same day, either from the same set during fishing time or from the same well during transfer or unloading.

The fishery information must be filled at the back of the form

Note that each fish has a different tag number, they can be different species, the size and weight can be different.

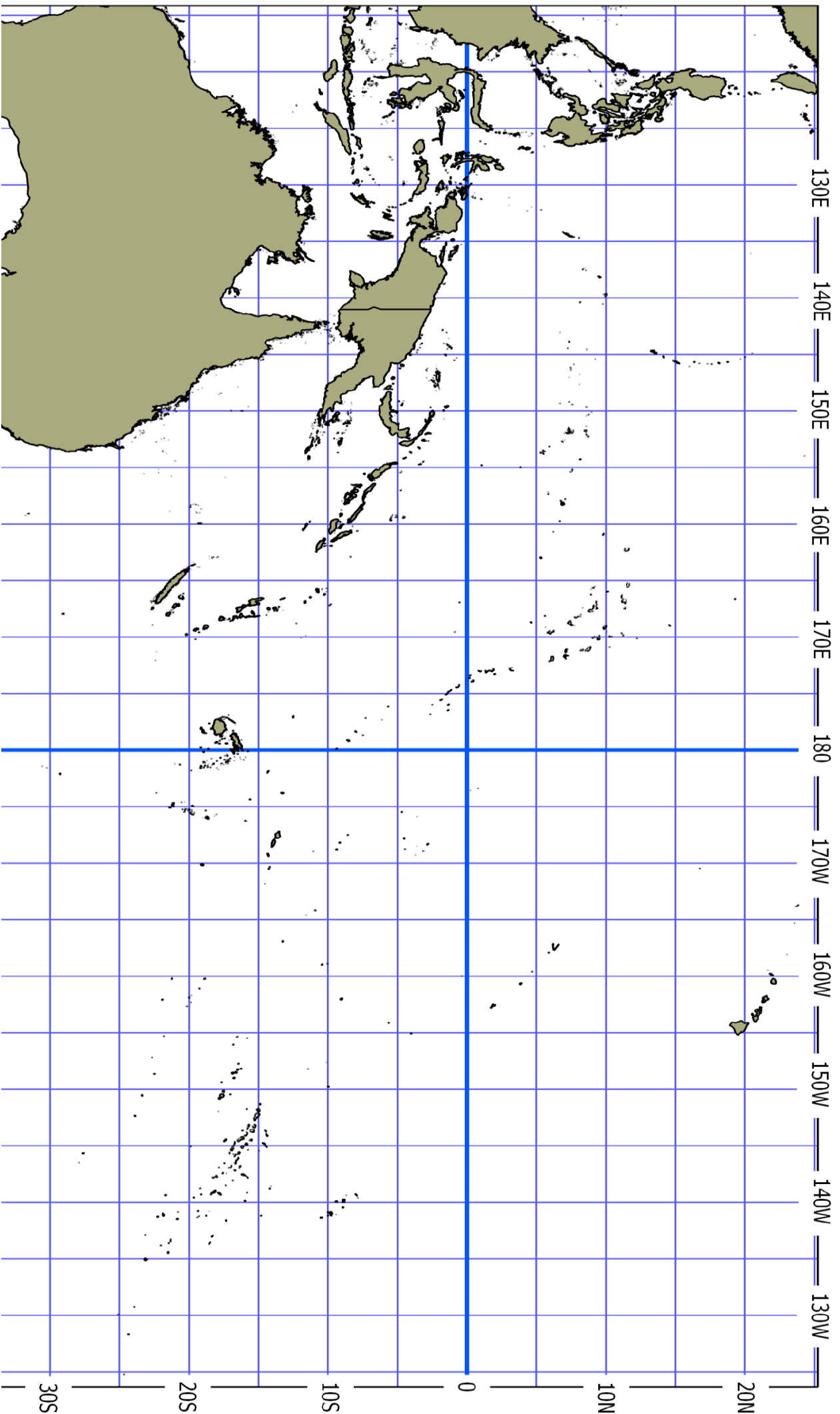


**Please use this map of the Pacific Ocean with a grid of 5 squares to determine where the tagged fish has been caught (Point or area)**

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.

Email: [tagging@spc.int](mailto:tagging@spc.int)

Website: [www.spc.int/tagging](http://www.spc.int/tagging)



**Please use this map of the Pacific Ocean with a grid of 5 squares to determine where the tagged fish 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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# SPC TAG RECOVERY FORM

PAGE / OF

REVISED SPC - Nov. 2011

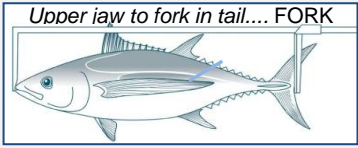
**Caution: when the tag is removed from the fish, be sure none of it remains inside the fish.**

## CRITICAL TAG INFORMATION

TAG NUMBER:	DATE WHEN TAG FOUND: <table style="display: inline-table; border: none; vertical-align: middle;"> <tr> <td style="border: 1px solid black; width: 20px; text-align: center;">DD</td> <td style="border: 1px solid black; width: 20px; text-align: center;">MM</td> <td style="border: 1px solid black; width: 20px; text-align: center;">YY</td> </tr> </table>	DD	MM	YY
DD	MM	YY		

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

## FISH INFORMATION

<b>SPECIES:</b>	SPECIES RELIABILITY: <input type="checkbox"/> Confirmed <input type="checkbox"/> Gussed	
<b>Upper jaw to FORK LENGTH (UF):</b>	NO length information <input type="checkbox"/> HOW MEASURED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated	
<b>cm</b>	WHO MEASURED? <input type="checkbox"/> Port sampler <input type="checkbox"/> Observer <input type="checkbox"/> Other... <i>Please specify:</i>	
PROCESSED STATE WHEN MEASURED: <input type="checkbox"/> Fresh <input type="checkbox"/> Frozen <input type="checkbox"/> Frozen then thawed		
<b>FISH WEIGHT</b>	NO weight information <input type="checkbox"/> HOW WEIGHED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated	
<b>kg</b>	PROCESSED STATE WHEN WEIGHED: <input type="checkbox"/> Whole weight <input type="checkbox"/> Gilled & gutted <input type="checkbox"/> Other... <i>please specify:</i>	

## FISH CATCH INFORMATION / Date and position when fish was caught by the fishing vessel

<b>DATE</b>	Exact <input type="checkbox"/> <table style="display: inline-table; border: none; vertical-align: middle;"> <tr> <td style="border: 1px solid black; width: 20px; text-align: center;">DD</td> <td style="border: 1px solid black; width: 20px; text-align: center;">MM</td> <td style="border: 1px solid black; width: 20px; text-align: center;">YY</td> </tr> </table>	DD	MM	YY	Estimated <input type="checkbox"/>	From <table style="display: inline-table; border: none; vertical-align: middle;"> <tr> <td style="border: 1px solid black; width: 20px; text-align: center;">DD</td> <td style="border: 1px solid black; width: 20px; text-align: center;">MM</td> <td style="border: 1px solid black; width: 20px; text-align: center;">YY</td> </tr> </table> to <table style="display: inline-table; border: none; vertical-align: middle;"> <tr> <td style="border: 1px solid black; width: 20px; text-align: center;">DD</td> <td style="border: 1px solid black; width: 20px; text-align: center;">MM</td> <td style="border: 1px solid black; width: 20px; text-align: center;">YY</td> </tr> </table>	DD	MM	YY	DD	MM	YY
DD	MM	YY										
DD	MM	YY										
DD	MM	YY										
<b>POSITION</b>	Exact <input type="checkbox"/> <table style="display: inline-table; border: none; vertical-align: middle;"> <tr> <td style="border: 1px solid black; width: 20px; text-align: center;">dd</td> <td style="border: 1px solid black; width: 20px; text-align: center;">mm.mmm</td> <td style="border: 1px solid black; width: 20px; text-align: center;">N / S</td> </tr> </table>	dd	mm.mmm	N / S	Record 2 lines of latitude and 2 of longitude to form box in which tag was likely recovered							
dd	mm.mmm	N / S										
Latitude	<table style="display: inline-table; border: none; vertical-align: middle;"> <tr> <td style="border: 1px solid black; width: 20px; text-align: center;">°</td> <td style="border: 1px solid black; width: 20px; text-align: center;">.</td> <td style="border: 1px solid black; width: 20px; text-align: center;">'</td> <td style="border: 1px solid black; width: 20px; text-align: center;">"</td> </tr> </table>	°	.	'	"	Latitude	<table style="display: inline-table; border: none; vertical-align: middle;"> <tr> <td style="border: 1px solid black; width: 20px; text-align: center;">°</td> <td style="border: 1px solid black; width: 20px; text-align: center;">.</td> <td style="border: 1px solid black; width: 20px; text-align: center;">'</td> <td style="border: 1px solid black; width: 20px; text-align: center;">"</td> </tr> </table>	°	.	'	"	
°	.	'	"									
°	.	'	"									
Longitude	<table style="display: inline-table; border: none; vertical-align: middle;"> <tr> <td style="border: 1px solid black; width: 20px; text-align: center;">ddd</td> <td style="border: 1px solid black; width: 20px; text-align: center;">mm.mmm</td> <td style="border: 1px solid black; width: 20px; text-align: center;">E / W</td> </tr> </table>	ddd	mm.mmm	E / W	Longitude	<table style="display: inline-table; border: none; vertical-align: middle;"> <tr> <td style="border: 1px solid black; width: 20px; text-align: center;">ddd</td> <td style="border: 1px solid black; width: 20px; text-align: center;">mm.mmm</td> <td style="border: 1px solid black; width: 20px; text-align: center;">E / W</td> </tr> </table>	ddd	mm.mmm	E / W			
ddd	mm.mmm	E / W										
ddd	mm.mmm	E / W										
or DESCRIBE FISHING AREA:												

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

<b>VESSEL NAME:</b>	<b>FLAG:</b>
<b>FISHING METHOD:</b>	<input type="checkbox"/> Longline <input type="checkbox"/> Purse seine <input type="checkbox"/> Troll <input type="checkbox"/> Handline <input type="checkbox"/> Gill net Other: _____
<b>SCHOOL TYPE:</b>	<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 (if tag found during set share/transhipment/unloading)

<b>NAME OF CARRIER:</b>	<b>FLAG:</b>	DATE OF TRANSSHIPMENT FROM FISHING VESSEL TO CARRIER: <table style="display: inline-table; border: none; vertical-align: middle;"> <tr> <td style="border: 1px solid black; width: 20px; text-align: center;">DD</td> <td style="border: 1px solid black; width: 20px; text-align: center;">MM</td> <td style="border: 1px solid black; width: 20px; text-align: center;">YY</td> </tr> </table> to <table style="display: inline-table; border: none; vertical-align: middle;"> <tr> <td style="border: 1px solid black; width: 20px; text-align: center;">DD</td> <td style="border: 1px solid black; width: 20px; text-align: center;">MM</td> <td style="border: 1px solid black; width: 20px; text-align: center;">YY</td> </tr> </table>	DD	MM	YY	DD	MM	YY
DD	MM	YY						
DD	MM	YY						
LOCATION OF TRANSSHIPMENT FROM FISHING VESSEL TO CARRIER (EEZ/Port):	TRANSSHIPMENT POSITION: <table style="display: inline-table; border: none; vertical-align: middle;"> <tr> <td style="border: 1px solid black; width: 20px; text-align: center;">dd</td> <td style="border: 1px solid black; width: 20px; text-align: center;">mm.mmm</td> <td style="border: 1px solid black; width: 20px; text-align: center;">N / S</td> </tr> </table> <table style="display: inline-table; border: none; vertical-align: middle;"> <tr> <td style="border: 1px solid black; width: 20px; text-align: center;">ddd</td> <td style="border: 1px solid black; width: 20px; text-align: center;">mm.mmm</td> <td style="border: 1px solid black; width: 20px; text-align: center;">E / W</td> </tr> </table>		dd	mm.mmm	N / S	ddd	mm.mmm	E / W
dd	mm.mmm	N / S						
ddd	mm.mmm	E / W						

## FINDER INFORMATION / finder details for lottery

<b>FINDER NAME:</b>	<b>FINDER ADDRESS:</b>
<b>COUNTRY OF RECOVERY:</b>	<b>RECOVERY INFORMATION RECEIVED AT</b> (Cannery/Company/Agency name):
<b>TAG PROVIDED WITH THIS FORM</b>	<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):
<b>TYPE OF REWARD</b>	<input type="checkbox"/> Not given <input type="checkbox"/> T-shirt <input type="checkbox"/> Cap <input type="checkbox"/> Cash - amount: _____ <b>FORM COMPLETED BY:</b>

COMMENTS:

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\$

# SPC TAG RECOVERY FORM

REVISED SPC - Nov. 2011

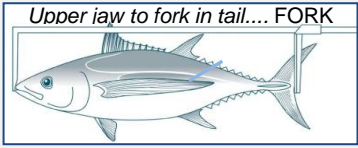
**Caution: when the tag is removed from the fish, be sure none of it remains inside the fish.**

## CRITICAL TAG INFORMATION

<b>TAG NUMBER:</b>	<b>DATE WHEN TAG FOUND:</b>			
	<table style="margin: auto;"> <tr> <td style="border: 1px solid black; width: 30px; text-align: center;">DD</td> <td style="border: 1px solid black; width: 30px; text-align: center;">MM</td> <td style="border: 1px solid black; width: 30px; text-align: center;">YY</td> </tr> </table>	DD	MM	YY
DD	MM	YY		

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

## FISH INFORMATION

<b>SPECIES:</b>	SPECIES RELIABILITY: <input type="checkbox"/> Confirmed <input type="checkbox"/> Gussed	
<b>Upper jaw to FORK LENGTH (UF):</b>	HOW MEASURED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated	
<b>cm</b>	WHO MEASURED? <input type="checkbox"/> Port sampler <input type="checkbox"/> Observer <input type="checkbox"/> Other... <i>Please specify:</i>	
PROCESSED STATE WHEN MEASURED: <input type="checkbox"/> Fresh <input type="checkbox"/> Frozen <input type="checkbox"/> Frozen then thawed		
<b>FISH WEIGHT</b>	HOW WEIGHED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated	
<b>kg</b>	PROCESSED STATE WHEN WEIGHED: <input type="checkbox"/> Whole weight <input type="checkbox"/> Gilled & gutted <input type="checkbox"/> Other... <i>please specify:</i>	

## FISH CATCH INFORMATION / Date and position when fish was caught by the fishing vessel

<b>DATE</b>	Exact <input type="checkbox"/> <table style="margin-left: 20px;"><tr><td style="border: 1px solid black; width: 30px; text-align: center;">DD</td><td style="border: 1px solid black; width: 30px; text-align: center;">MM</td><td style="border: 1px solid black; width: 30px; text-align: center;">YY</td></tr></table>	DD	MM	YY	Estimated <input type="checkbox"/>	From <table style="margin-left: 20px;"><tr><td style="border: 1px solid black; width: 30px; text-align: center;">DD</td><td style="border: 1px solid black; width: 30px; text-align: center;">MM</td><td style="border: 1px solid black; width: 30px; text-align: center;">YY</td></tr></table> to <table style="margin-left: 20px;"><tr><td style="border: 1px solid black; width: 30px; text-align: center;">DD</td><td style="border: 1px solid black; width: 30px; text-align: center;">MM</td><td style="border: 1px solid black; width: 30px; text-align: center;">YY</td></tr></table>	DD	MM	YY	DD	MM	YY	
DD	MM	YY											
DD	MM	YY											
DD	MM	YY											
<b>POSITION</b>	Exact <input type="checkbox"/> <table style="margin-left: 20px;"><tr><td style="border: 1px solid black; width: 30px; text-align: center;">dd</td><td style="border: 1px solid black; width: 30px; text-align: center;">mm.mmm</td><td style="border: 1px solid black; width: 30px; text-align: center;">N / S</td></tr></table>	dd	mm.mmm	N / S	Record 2 lines of latitude and 2 of longitude to form box in which tag was likely recovered								
dd	mm.mmm	N / S											
	Latitude <table style="margin-left: 20px;"><tr><td style="border: 1px solid black; width: 30px; text-align: center;">°</td><td style="border: 1px solid black; width: 30px; text-align: center;">.</td><td style="border: 1px solid black; width: 30px; text-align: center;">'</td><td style="border: 1px solid black; width: 30px; text-align: center;">"</td></tr></table>	°	.	'	"	Longitude <table style="margin-left: 20px;"><tr><td style="border: 1px solid black; width: 30px; text-align: center;">ddd</td><td style="border: 1px solid black; width: 30px; text-align: center;">mm.mmm</td><td style="border: 1px solid black; width: 30px; text-align: center;">E / W</td></tr></table>	ddd	mm.mmm	E / W	Estimated <input type="checkbox"/> <table style="margin-left: 20px;"><tr><td style="border: 1px solid black; width: 30px; text-align: center;">dd</td><td style="border: 1px solid black; width: 30px; text-align: center;">mm.mmm</td><td style="border: 1px solid black; width: 30px; text-align: center;">N / S</td></tr></table>	dd	mm.mmm	N / S
°	.	'	"										
ddd	mm.mmm	E / W											
dd	mm.mmm	N / S											
	Latitude <table style="margin-left: 20px;"><tr><td style="border: 1px solid black; width: 30px; text-align: center;">Min</td><td style="border: 1px solid black; width: 30px; text-align: center;">Max</td></tr></table>	Min	Max	Longitude <table style="margin-left: 20px;"><tr><td style="border: 1px solid black; width: 30px; text-align: center;">Min</td><td style="border: 1px solid black; width: 30px; text-align: center;">Max</td></tr></table>	Min	Max	Longitude <table style="margin-left: 20px;"><tr><td style="border: 1px solid black; width: 30px; text-align: center;">ddd</td><td style="border: 1px solid black; width: 30px; text-align: center;">mm.mmm</td><td style="border: 1px solid black; width: 30px; text-align: center;">E / W</td></tr></table>	ddd	mm.mmm	E / W			
Min	Max												
Min	Max												
ddd	mm.mmm	E / W											
or DESCRIBE FISHING AREA:													

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

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

## TRANSSHIPMENT INFORMATION/ Carrier only (if tag found during set share/transhipment/unloading)

<b>NAME OF CARRIER:</b>	<b>FLAG:</b>	<b>DATE OF TRANSSHIPMENT FROM FISHING VESSEL TO CARRIER:</b>	to						
		<table style="margin: auto;"> <tr> <td style="border: 1px solid black; width: 30px; text-align: center;">DD</td> <td style="border: 1px solid black; width: 30px; text-align: center;">MM</td> <td style="border: 1px solid black; width: 30px; text-align: center;">YY</td> </tr> </table>	DD	MM	YY	<table style="margin: auto;"> <tr> <td style="border: 1px solid black; width: 30px; text-align: center;">DD</td> <td style="border: 1px solid black; width: 30px; text-align: center;">MM</td> <td style="border: 1px solid black; width: 30px; text-align: center;">YY</td> </tr> </table>	DD	MM	YY
DD	MM	YY							
DD	MM	YY							
<b>LOCATION OF TRANSSHIPMENT FROM FISHING VESSEL TO CARRIER (EEZ/Port):</b>		<b>TRANSHIPMENT POSITION:</b>							
		Latitude <table style="margin-left: 20px;"><tr><td style="border: 1px solid black; width: 30px; text-align: center;">dd</td><td style="border: 1px solid black; width: 30px; text-align: center;">mm.mmm</td><td style="border: 1px solid black; width: 30px; text-align: center;">N / S</td></tr></table>	dd	mm.mmm	N / S	Longitude <table style="margin-left: 20px;"><tr><td style="border: 1px solid black; width: 30px; text-align: center;">ddd</td><td style="border: 1px solid black; width: 30px; text-align: center;">mm.mmm</td><td style="border: 1px solid black; width: 30px; text-align: center;">E / W</td></tr></table>	ddd	mm.mmm	E / W
dd	mm.mmm	N / S							
ddd	mm.mmm	E / W							

## FINDER INFORMATION / finder details for lottery

<b>FINDER NAME:</b>	<b>FINDER ADDRESS:</b>
<b>COUNTRY OF RECOVERY:</b>	<b>RECOVERY INFORMATION RECEIVED AT (Cannery/Company/Agency name):</b>
<b>TAG PROVIDED WITH THIS FORM</b>	<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):
<b>TYPE OF REWARD</b>	<input type="checkbox"/> Not given <input type="checkbox"/> T-shirt <input type="checkbox"/> Cap <input type="checkbox"/> Cash - amount: _____ <b>FORM COMPLETED BY:</b>

COMMENTS:

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\$



# SPC TAG RECOVERY FORM

PAGE / OF

REVISED SPC - Nov. 2011

**Caution: when the tag is removed from the fish, be sure none of it remains inside the fish.**

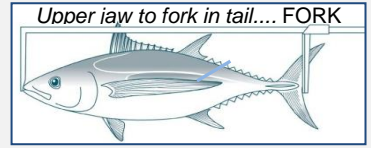
## CRITICAL TAG INFORMATION

<b>TAG NUMBER:</b>	<b>DATE WHEN TAG FOUND:</b>						
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 33%; text-align: center;">DD</td> <td style="width: 33%; text-align: center;">MM</td> <td style="width: 33%; text-align: center;">YY</td> </tr> <tr> <td style="height: 20px;"></td> <td></td> <td></td> </tr> </table>	DD	MM	YY			
DD	MM	YY					

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

## FISH INFORMATION

<b>SPECIES:</b>	<b>SPECIES RELIABILITY:</b>	<input type="checkbox"/> Confirmed	<input type="checkbox"/> Gessed
<i>Upper jaw to FORK LENGTH (UF):</i> <b>cm</b>	<b>NO length Information</b> <input type="checkbox"/>	<b>HOW MEASURED?</b>	
		<input type="checkbox"/> Measuring tool	<input type="checkbox"/> Estimated
	<b>WHO MEASURED?</b>	<input type="checkbox"/> Port sampler	<input type="checkbox"/> Observer
<b>PROCESSED STATE WHEN MEASURED:</b>			
<input type="checkbox"/> Fresh <input type="checkbox"/> Frozen <input type="checkbox"/> Frozen then thawed			
<b>FISH WEIGHT</b>	<b>NO weight information</b> <input type="checkbox"/>	<b>HOW WEIGHED?</b>	
		<input type="checkbox"/> Measuring tool	<input type="checkbox"/> Estimated
<b>PROCESSED STATE WHEN WEIGHED:</b>			
<input type="checkbox"/> Whole weight <input type="checkbox"/> Gilled & gutted <input type="checkbox"/> Other.... <i>please specify:</i>			



## FISH CATCH INFORMATION / Date and position when fish was caught by the fishing vessel

<b>DATE</b>	<b>Exact</b> <input type="checkbox"/>	DD	MM	YY	<b>Estimated</b> <input type="checkbox"/>	From	DD	MM	YY	to	DD	MM	YY		
<b>POSITION</b>	<b>Exact</b> <input type="checkbox"/>	dd	mm.mmm	N / S	<b>Estimated</b> <input type="checkbox"/>	Record 2 lines of latitude and 2 of longitude to form box in which tag was likely recovered									
	Latitude	°	.	'		ddd	mm.mmm	E / W	ddd	mm.mmm	E / W				
	Longitude	°	.	'		Latitude	Min	Max	°	.	'	Longitude	°	.	'
	or DESCRIBE FISHING AREA:														

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

<b>VESSEL NAME:</b>	<b>FLAG:</b>
<b>FISHING METHOD:</b>	<input type="checkbox"/> Longline <input type="checkbox"/> Purse seine <input type="checkbox"/> Troll <input type="checkbox"/> Handline <input type="checkbox"/> Gill net    Other: _____
<b>SCHOOL TYPE:</b>	<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 (if tag found during set share/transhipment/unloading)

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

## FINDER INFORMATION / finder details for lottery

<b>FINDER NAME:</b>	<b>FINDER ADDRESS:</b>
<b>COUNTRY OF RECOVERY:</b>	<b>RECOVERY INFORMATION RECEIVED AT (Cannery/Company/Agency name):</b>
<b>TAG PROVIDED WITH THIS FORM</b>	<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):
<b>TYPE OF REWARD</b>	<input type="checkbox"/> Not given <input type="checkbox"/> T-shirt <input type="checkbox"/> Cap <input type="checkbox"/> Cash - amount: _____
<b>FORM COMPLETED BY:</b>	

COMMENTS:

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\$



# SPC TAG RECOVERY FORM

REVISED SPC - Nov. 2011

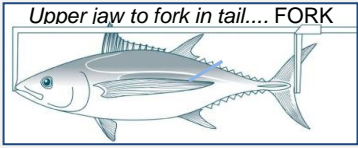
**Caution: when the tag is removed from the fish, be sure none of it remains inside the fish.**

## CRITICAL TAG INFORMATION

<b>TAG NUMBER:</b>	<b>DATE WHEN TAG FOUND:</b>						
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 33%; text-align: center;">DD</td> <td style="width: 33%; text-align: center;">MM</td> <td style="width: 33%; text-align: center;">YY</td> </tr> <tr> <td style="width: 33%; height: 20px;"></td> <td style="width: 33%; height: 20px;"></td> <td style="width: 33%; height: 20px;"></td> </tr> </table>	DD	MM	YY			
DD	MM	YY					

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

## FISH INFORMATION

<b>SPECIES:</b>	SPECIES RELIABILITY: <input type="checkbox"/> Confirmed <input type="checkbox"/> Gussed	
<b>Upper jaw to FORK LENGTH (UF):</b>	HOW MEASURED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated	
<b>cm</b>	WHO MEASURED? <input type="checkbox"/> Port sampler <input type="checkbox"/> Observer <input type="checkbox"/> Other... <i>Please specify:</i>	
PROCESSED STATE WHEN MEASURED: <input type="checkbox"/> Fresh <input type="checkbox"/> Frozen <input type="checkbox"/> Frozen then thawed		
<b>FISH WEIGHT</b>	HOW WEIGHED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated	
<b>kg</b>	PROCESSED STATE WHEN WEIGHED: <input type="checkbox"/> Whole weight <input type="checkbox"/> Gilled & gutted <input type="checkbox"/> Other... <i>please specify:</i>	

## FISH CATCH INFORMATION / Date and position when fish was caught by the fishing vessel

<b>DATE</b>	Exact <input type="checkbox"/> <table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr><td style="width: 20px;">DD</td><td style="width: 20px;">MM</td><td style="width: 20px;">YY</td></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> </table>	DD	MM	YY				Estimated <input type="checkbox"/> From <table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr><td style="width: 20px;">DD</td><td style="width: 20px;">MM</td><td style="width: 20px;">YY</td></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> </table> to <table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr><td style="width: 20px;">DD</td><td style="width: 20px;">MM</td><td style="width: 20px;">YY</td></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> </table>	DD	MM	YY				DD	MM	YY			
DD	MM	YY																		
DD	MM	YY																		
DD	MM	YY																		
<b>POSITION</b>	Exact <input type="checkbox"/> <table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr><td style="width: 20px;">dd</td><td style="width: 20px;">mm.mmm</td><td style="width: 20px;">N / S</td></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> </table> Latitude	dd	mm.mmm	N / S				Estimated <input type="checkbox"/> <table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr><td style="width: 20px;">dd</td><td style="width: 20px;">mm.mmm</td><td style="width: 20px;">N / S</td></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> </table> Latitude	dd	mm.mmm	N / S									
dd	mm.mmm	N / S																		
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	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr><td style="width: 20px;">ddd</td><td style="width: 20px;">mm.mmm</td><td style="width: 20px;">E / W</td></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> </table> Longitude	ddd	mm.mmm	E / W				<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr><td style="width: 20px;">ddd</td><td style="width: 20px;">mm.mmm</td><td style="width: 20px;">E / W</td></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> </table> Longitude	ddd	mm.mmm	E / W									
ddd	mm.mmm	E / W																		
ddd	mm.mmm	E / W																		
or DESCRIBE FISHING AREA:																				

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

<b>VESSEL NAME:</b>	<b>FLAG:</b>
<b>FISHING METHOD:</b>	<input type="checkbox"/> Longline <input type="checkbox"/> Purse seine <input type="checkbox"/> Troll <input type="checkbox"/> Handline <input type="checkbox"/> Gill net Other: _____
<b>SCHOOL TYPE:</b>	<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 (if tag found during set share/transhipment/unloading)

<b>NAME OF CARRIER:</b>	<b>FLAG:</b>	<b>DATE OF TRANSSHIPMENT FROM FISHING VESSEL TO CARRIER:</b>												
		<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr><td style="width: 20px;">DD</td><td style="width: 20px;">MM</td><td style="width: 20px;">YY</td></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> </table> to <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr><td style="width: 20px;">DD</td><td style="width: 20px;">MM</td><td style="width: 20px;">YY</td></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> </table>	DD	MM	YY				DD	MM	YY			
DD	MM	YY												
DD	MM	YY												
<b>LOCATION OF TRANSSHIPMENT FROM FISHING VESSEL TO CARRIER (EEZ/Port):</b>	<b>TRANSHIPMENT POSITION:</b>													
	Latitude <table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr><td style="width: 20px;">dd</td><td style="width: 20px;">mm.mmm</td><td style="width: 20px;">N / S</td></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> </table>	dd	mm.mmm	N / S				Longitude <table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr><td style="width: 20px;">ddd</td><td style="width: 20px;">mm.mmm</td><td style="width: 20px;">E / W</td></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> </table>	ddd	mm.mmm	E / W			
dd	mm.mmm	N / S												
ddd	mm.mmm	E / W												

## FINDER INFORMATION / finder details for lottery

<b>FINDER NAME:</b>	<b>FINDER ADDRESS:</b>
<b>COUNTRY OF RECOVERY:</b>	<b>RECOVERY INFORMATION RECEIVED AT (Cannery/Company/Agency name):</b>
<b>TAG PROVIDED WITH THIS FORM</b>	<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):
<b>TYPE OF REWARD</b>	<input type="checkbox"/> Not given <input type="checkbox"/> T-shirt <input type="checkbox"/> Cap <input type="checkbox"/> Cash - amount: _____ <b>FORM COMPLETED BY:</b>

COMMENTS:

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\$

# SPC MULTIPLE TAG RECOVERY FORM

MULTIPLE TAGGED FISH FOUND THE SAME DAY, COMING FROM THE SAME SET or THE SAME WELL

REVISED SPC - Nov 2011

DATE WHEN TAG FOUND:	DD	MM	YY

**"When the tag is removed from the fish, be sure none of it remains inside the fish"**

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

<b>TAG NUMBER:</b>	<b>SPECIES:</b> <input type="checkbox"/> SKJ <input type="checkbox"/> BET <input type="checkbox"/> YFT <input type="checkbox"/> Other please specify:	<b>IDENTIFICATION:</b> <input type="checkbox"/> Confirmed <input type="checkbox"/> Guessed
FORK LENGTH <i>cm</i>	NO length information <input type="checkbox"/>	HOW MEASURED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
FISH WEIGHT <i>Kg</i>	NO weight information <input type="checkbox"/>	HOW WEIGHED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
		PROCESSED STATE WHEN MEASURED: <input type="checkbox"/> Fresh <input type="checkbox"/> Frozen
		PROCESSED STATE WHEN WEIGHED: <input type="checkbox"/> Whole weight <input type="checkbox"/> Gilled & gutted <input type="checkbox"/> Other....

<b>TAG NUMBER:</b>	<b>SPECIES:</b> <input type="checkbox"/> SKJ <input type="checkbox"/> BET <input type="checkbox"/> YFT <input type="checkbox"/> Other please specify:	<b>IDENTIFICATION:</b> <input type="checkbox"/> Confirmed <input type="checkbox"/> Guessed
FORK LENGTH <i>cm</i>	NO length information <input type="checkbox"/>	HOW MEASURED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
FISH WEIGHT <i>Kg</i>	NO weight information <input type="checkbox"/>	HOW WEIGHED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
		PROCESSED STATE WHEN MEASURED: <input type="checkbox"/> Fresh <input type="checkbox"/> Frozen
		PROCESSED STATE WHEN WEIGHED: <input type="checkbox"/> Whole weight <input type="checkbox"/> Gilled & gutted <input type="checkbox"/> Other....

<b>TAG NUMBER:</b>	<b>SPECIES:</b> <input type="checkbox"/> SKJ <input type="checkbox"/> BET <input type="checkbox"/> YFT <input type="checkbox"/> Other please specify:	<b>IDENTIFICATION:</b> <input type="checkbox"/> Confirmed <input type="checkbox"/> Guessed
FORK LENGTH <i>cm</i>	NO length information <input type="checkbox"/>	HOW MEASURED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
FISH WEIGHT <i>Kg</i>	NO weight information <input type="checkbox"/>	HOW WEIGHED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
		PROCESSED STATE WHEN MEASURED: <input type="checkbox"/> Fresh <input type="checkbox"/> Frozen
		PROCESSED STATE WHEN WEIGHED: <input type="checkbox"/> Whole weight <input type="checkbox"/> Gilled & gutted <input type="checkbox"/> Other....

<b>TAG NUMBER:</b>	<b>SPECIES:</b> <input type="checkbox"/> SKJ <input type="checkbox"/> BET <input type="checkbox"/> YFT <input type="checkbox"/> Other please specify:	<b>IDENTIFICATION:</b> <input type="checkbox"/> Confirmed <input type="checkbox"/> Guessed
FORK LENGTH <i>cm</i>	NO length information <input type="checkbox"/>	HOW MEASURED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
FISH WEIGHT <i>Kg</i>	NO weight information <input type="checkbox"/>	HOW WEIGHED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
		PROCESSED STATE WHEN MEASURED: <input type="checkbox"/> Fresh <input type="checkbox"/> Frozen
		PROCESSED STATE WHEN WEIGHED: <input type="checkbox"/> Whole weight <input type="checkbox"/> Gilled & gutted <input type="checkbox"/> Other....

<b>TAG NUMBER:</b>	<b>SPECIES:</b> <input type="checkbox"/> SKJ <input type="checkbox"/> BET <input type="checkbox"/> YFT <input type="checkbox"/> Other please specify:	<b>IDENTIFICATION:</b> <input type="checkbox"/> Confirmed <input type="checkbox"/> Guessed
FORK LENGTH <i>cm</i>	NO length information <input type="checkbox"/>	HOW MEASURED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
FISH WEIGHT <i>Kg</i>	NO weight information <input type="checkbox"/>	HOW WEIGHED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
		PROCESSED STATE WHEN MEASURED: <input type="checkbox"/> Fresh <input type="checkbox"/> Frozen
		PROCESSED STATE WHEN WEIGHED: <input type="checkbox"/> Whole weight <input type="checkbox"/> Gilled & gutted <input type="checkbox"/> Other....

<b>TAG NUMBER:</b>	<b>SPECIES:</b> <input type="checkbox"/> SKJ <input type="checkbox"/> BET <input type="checkbox"/> YFT <input type="checkbox"/> Other please specify:	<b>IDENTIFICATION:</b> <input type="checkbox"/> Confirmed <input type="checkbox"/> Guessed
FORK LENGTH <i>cm</i>	NO length information <input type="checkbox"/>	HOW MEASURED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
FISH WEIGHT <i>Kg</i>	NO weight information <input type="checkbox"/>	HOW WEIGHED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
		PROCESSED STATE WHEN MEASURED: <input type="checkbox"/> Fresh <input type="checkbox"/> Frozen
		PROCESSED STATE WHEN WEIGHED: <input type="checkbox"/> Whole weight <input type="checkbox"/> Gilled & gutted <input type="checkbox"/> Other....

<b>TAG NUMBER:</b>	<b>SPECIES:</b> <input type="checkbox"/> SKJ <input type="checkbox"/> BET <input type="checkbox"/> YFT <input type="checkbox"/> Other please specify:	<b>IDENTIFICATION:</b> <input type="checkbox"/> Confirmed <input type="checkbox"/> Guessed
FORK LENGTH <i>cm</i>	NO length information <input type="checkbox"/>	HOW MEASURED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
FISH WEIGHT <i>Kg</i>	NO weight information <input type="checkbox"/>	HOW WEIGHED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
		PROCESSED STATE WHEN MEASURED: <input type="checkbox"/> Fresh <input type="checkbox"/> Frozen
		PROCESSED STATE WHEN WEIGHED: <input type="checkbox"/> Whole weight <input type="checkbox"/> Gilled & gutted <input type="checkbox"/> Other....

<b>TAG NUMBER:</b>	<b>SPECIES:</b> <input type="checkbox"/> SKJ <input type="checkbox"/> BET <input type="checkbox"/> YFT <input type="checkbox"/> Other please specify:	<b>IDENTIFICATION:</b> <input type="checkbox"/> Confirmed <input type="checkbox"/> Guessed
FORK LENGTH <i>cm</i>	NO length information <input type="checkbox"/>	HOW MEASURED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
FISH WEIGHT <i>Kg</i>	NO weight information <input type="checkbox"/>	HOW WEIGHED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
		PROCESSED STATE WHEN MEASURED: <input type="checkbox"/> Fresh <input type="checkbox"/> Frozen
		PROCESSED STATE WHEN WEIGHED: <input type="checkbox"/> Whole weight <input type="checkbox"/> Gilled & gutted <input type="checkbox"/> Other....

**FISH CATCH INFORMATION / Date and position when fish was caught by the fishing vessel**

<b>DATE</b>	Exact <input type="checkbox"/>	DD	MM	YY	Estimated <input type="checkbox"/>	From	DD	MM	YY	to	DD	MM	YY
<b>POSITION</b>	Exact <input type="checkbox"/>	dd	mm.mmm	N / S	Estimated <input type="checkbox"/>	Record 2 lines of latitude and 2 of longitude to form box in which tag was likely recovered							
	Latitude	°	'			dd	mm.mmm	N / S	ddd	mm.mmm	E / W		
	Longitude	ddd	mm.mmm	E / W		Latitude Min	°	'		Longitude	°	'	
or DESCRIBE FISHING AREA:													

**FISHERY INFORMATION (Catcher / Fishing vessel that caught the tagged fish)**

<b>VESSEL NAME:</b>	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 (if tags found during set share/transshipment/unloading/)**

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

**FINDER INFORMATION / finder details for lottery**

<b>FINDER NAME:</b>	FINDER ADDRESS:
PORT OF RECOVERY:	RECOVERY INFORMATION RECEIVED AT (Fishing Company/Agency name):
ALL TAGS PROVIDED WITH THIS FORM <input type="checkbox"/> Yes <input type="checkbox"/> No (tags kept by finder for reward purpose)	IF NO, specify expected reward 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:

Attach the tags here

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\$

# SPC MULTIPLE TAG RECOVERY FORM

MULTIPLE TAGGED FISH FOUND THE SAME DAY, COMING FROM THE SAME SET or THE SAME WELL

REVISED SPC - Nov 2011

DATE WHEN TAG FOUND:	DD	MM	YY

**"When the tag is removed from the fish,  
be sure none of it remains inside the fish"**

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

<b>TAG NUMBER:</b>	<b>SPECIES:</b> <input type="checkbox"/> SKJ <input type="checkbox"/> BET <input type="checkbox"/> YFT <input type="checkbox"/> Other please specify:	<b>IDENTIFICATION:</b> <input type="checkbox"/> Confirmed <input type="checkbox"/> Guessed
FORK LENGTH <i>cm</i>	NO length information <input type="checkbox"/>	HOW MEASURED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
FISH WEIGHT <i>Kg</i>	NO weight information <input type="checkbox"/>	HOW WEIGHED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
		PROCESSED STATE WHEN MEASURED: <input type="checkbox"/> Fresh <input type="checkbox"/> Frozen
		PROCESSED STATE WHEN WEIGHED: <input type="checkbox"/> Whole weight <input type="checkbox"/> Gilled & gutted <input type="checkbox"/> Other....

<b>TAG NUMBER:</b>	<b>SPECIES:</b> <input type="checkbox"/> SKJ <input type="checkbox"/> BET <input type="checkbox"/> YFT <input type="checkbox"/> Other please specify:	<b>IDENTIFICATION:</b> <input type="checkbox"/> Confirmed <input type="checkbox"/> Guessed
FORK LENGTH <i>cm</i>	NO length information <input type="checkbox"/>	HOW MEASURED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
FISH WEIGHT <i>Kg</i>	NO weight information <input type="checkbox"/>	HOW WEIGHED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
		PROCESSED STATE WHEN MEASURED: <input type="checkbox"/> Fresh <input type="checkbox"/> Frozen
		PROCESSED STATE WHEN WEIGHED: <input type="checkbox"/> Whole weight <input type="checkbox"/> Gilled & gutted <input type="checkbox"/> Other....

<b>TAG NUMBER:</b>	<b>SPECIES:</b> <input type="checkbox"/> SKJ <input type="checkbox"/> BET <input type="checkbox"/> YFT <input type="checkbox"/> Other please specify:	<b>IDENTIFICATION:</b> <input type="checkbox"/> Confirmed <input type="checkbox"/> Guessed
FORK LENGTH <i>cm</i>	NO length information <input type="checkbox"/>	HOW MEASURED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
FISH WEIGHT <i>Kg</i>	NO weight information <input type="checkbox"/>	HOW WEIGHED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
		PROCESSED STATE WHEN MEASURED: <input type="checkbox"/> Fresh <input type="checkbox"/> Frozen
		PROCESSED STATE WHEN WEIGHED: <input type="checkbox"/> Whole weight <input type="checkbox"/> Gilled & gutted <input type="checkbox"/> Other....

<b>TAG NUMBER:</b>	<b>SPECIES:</b> <input type="checkbox"/> SKJ <input type="checkbox"/> BET <input type="checkbox"/> YFT <input type="checkbox"/> Other please specify:	<b>IDENTIFICATION:</b> <input type="checkbox"/> Confirmed <input type="checkbox"/> Guessed
FORK LENGTH <i>cm</i>	NO length information <input type="checkbox"/>	HOW MEASURED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
FISH WEIGHT <i>Kg</i>	NO weight information <input type="checkbox"/>	HOW WEIGHED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
		PROCESSED STATE WHEN MEASURED: <input type="checkbox"/> Fresh <input type="checkbox"/> Frozen
		PROCESSED STATE WHEN WEIGHED: <input type="checkbox"/> Whole weight <input type="checkbox"/> Gilled & gutted <input type="checkbox"/> Other....

<b>TAG NUMBER:</b>	<b>SPECIES:</b> <input type="checkbox"/> SKJ <input type="checkbox"/> BET <input type="checkbox"/> YFT <input type="checkbox"/> Other please specify:	<b>IDENTIFICATION:</b> <input type="checkbox"/> Confirmed <input type="checkbox"/> Guessed
FORK LENGTH <i>cm</i>	NO length information <input type="checkbox"/>	HOW MEASURED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
FISH WEIGHT <i>Kg</i>	NO weight information <input type="checkbox"/>	HOW WEIGHED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
		PROCESSED STATE WHEN MEASURED: <input type="checkbox"/> Fresh <input type="checkbox"/> Frozen
		PROCESSED STATE WHEN WEIGHED: <input type="checkbox"/> Whole weight <input type="checkbox"/> Gilled & gutted <input type="checkbox"/> Other....

<b>TAG NUMBER:</b>	<b>SPECIES:</b> <input type="checkbox"/> SKJ <input type="checkbox"/> BET <input type="checkbox"/> YFT <input type="checkbox"/> Other please specify:	<b>IDENTIFICATION:</b> <input type="checkbox"/> Confirmed <input type="checkbox"/> Guessed
FORK LENGTH <i>cm</i>	NO length information <input type="checkbox"/>	HOW MEASURED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
FISH WEIGHT <i>Kg</i>	NO weight information <input type="checkbox"/>	HOW WEIGHED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
		PROCESSED STATE WHEN MEASURED: <input type="checkbox"/> Fresh <input type="checkbox"/> Frozen
		PROCESSED STATE WHEN WEIGHED: <input type="checkbox"/> Whole weight <input type="checkbox"/> Gilled & gutted <input type="checkbox"/> Other....

<b>TAG NUMBER:</b>	<b>SPECIES:</b> <input type="checkbox"/> SKJ <input type="checkbox"/> BET <input type="checkbox"/> YFT <input type="checkbox"/> Other please specify:	<b>IDENTIFICATION:</b> <input type="checkbox"/> Confirmed <input type="checkbox"/> Guessed
FORK LENGTH <i>cm</i>	NO length information <input type="checkbox"/>	HOW MEASURED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
FISH WEIGHT <i>Kg</i>	NO weight information <input type="checkbox"/>	HOW WEIGHED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
		PROCESSED STATE WHEN MEASURED: <input type="checkbox"/> Fresh <input type="checkbox"/> Frozen
		PROCESSED STATE WHEN WEIGHED: <input type="checkbox"/> Whole weight <input type="checkbox"/> Gilled & gutted <input type="checkbox"/> Other....

<b>TAG NUMBER:</b>	<b>SPECIES:</b> <input type="checkbox"/> SKJ <input type="checkbox"/> BET <input type="checkbox"/> YFT <input type="checkbox"/> Other please specify:	<b>IDENTIFICATION:</b> <input type="checkbox"/> Confirmed <input type="checkbox"/> Guessed
FORK LENGTH <i>cm</i>	NO length information <input type="checkbox"/>	HOW MEASURED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
FISH WEIGHT <i>Kg</i>	NO weight information <input type="checkbox"/>	HOW WEIGHED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
		PROCESSED STATE WHEN MEASURED: <input type="checkbox"/> Fresh <input type="checkbox"/> Frozen
		PROCESSED STATE WHEN WEIGHED: <input type="checkbox"/> Whole weight <input type="checkbox"/> Gilled & gutted <input type="checkbox"/> Other....

**FISH CATCH INFORMATION / Date and position when fish was caught by the fishing vessel**

<b>DATE</b>	Exact <input type="checkbox"/>	DD	MM	YY	Estimated <input type="checkbox"/>	From	DD	MM	YY	to	DD	MM	YY
<b>POSITION</b>	Exact <input type="checkbox"/>	dd	mm.mmm	N / S	Estimated <input type="checkbox"/>	Record 2 lines of latitude and 2 of longitude to form box in which tag was likely recovered							
	Latitude	°	'			dd	mm.mmm	N / S	ddd	mm.mmm	E / W		
	Longitude	ddd	mm.mmm	E / W		Latitude Min	°	'		Longitude	°	'	
or DESCRIBE FISHING AREA:													

**FISHERY INFORMATION (Catcher / Fishing vessel that caught the tagged fish)**

<b>VESSEL NAME:</b>	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 (if tags found during set share/transshipment/unloading/)**

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

**FINDER INFORMATION / finder details for lottery**

<b>FINDER NAME:</b>	FINDER ADDRESS:
PORT OF RECOVERY:	RECOVERY INFORMATION RECEIVED AT (Fishing Company/Agency name):
ALL TAGS PROVIDED WITH THIS FORM <input type="checkbox"/> Yes <input type="checkbox"/> No (tags kept by finder for reward purpose)	IF NO, specify expected reward 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:

Attach the tags here

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\$

# SPC MULTIPLE TAG RECOVERY FORM

MULTIPLE TAGGED FISH FOUND THE SAME DAY, COMING FROM THE SAME SET or THE SAME WELL

REVISED SPC - Nov 2011

DATE WHEN TAG FOUND:	DD	MM	YY

**"When the tag is removed from the fish, be sure none of it remains inside the fish"**

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

<b>TAG NUMBER:</b>	<b>SPECIES:</b> <input type="checkbox"/> SKJ <input type="checkbox"/> BET <input type="checkbox"/> YFT <input type="checkbox"/> Other please specify:	<b>IDENTIFICATION:</b> <input type="checkbox"/> Confirmed <input type="checkbox"/> Guessed
FORK LENGTH <small>cm</small>	NO length information <input type="checkbox"/>	HOW MEASURED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
FISH WEIGHT <small>Kg</small>	NO weight information <input type="checkbox"/>	HOW WEIGHED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
		PROCESSED STATE WHEN MEASURED: <input type="checkbox"/> Fresh <input type="checkbox"/> Frozen
		PROCESSED STATE WHEN WEIGHED: <input type="checkbox"/> Whole weight <input type="checkbox"/> Gilled & gutted <input type="checkbox"/> Other....

<b>TAG NUMBER:</b>	<b>SPECIES:</b> <input type="checkbox"/> SKJ <input type="checkbox"/> BET <input type="checkbox"/> YFT <input type="checkbox"/> Other please specify:	<b>IDENTIFICATION:</b> <input type="checkbox"/> Confirmed <input type="checkbox"/> Guessed
FORK LENGTH <small>cm</small>	NO length information <input type="checkbox"/>	HOW MEASURED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
FISH WEIGHT <small>Kg</small>	NO weight information <input type="checkbox"/>	HOW WEIGHED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
		PROCESSED STATE WHEN MEASURED: <input type="checkbox"/> Fresh <input type="checkbox"/> Frozen
		PROCESSED STATE WHEN WEIGHED: <input type="checkbox"/> Whole weight <input type="checkbox"/> Gilled & gutted <input type="checkbox"/> Other....

<b>TAG NUMBER:</b>	<b>SPECIES:</b> <input type="checkbox"/> SKJ <input type="checkbox"/> BET <input type="checkbox"/> YFT <input type="checkbox"/> Other please specify:	<b>IDENTIFICATION:</b> <input type="checkbox"/> Confirmed <input type="checkbox"/> Guessed
FORK LENGTH <small>cm</small>	NO length information <input type="checkbox"/>	HOW MEASURED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
FISH WEIGHT <small>Kg</small>	NO weight information <input type="checkbox"/>	HOW WEIGHED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
		PROCESSED STATE WHEN MEASURED: <input type="checkbox"/> Fresh <input type="checkbox"/> Frozen
		PROCESSED STATE WHEN WEIGHED: <input type="checkbox"/> Whole weight <input type="checkbox"/> Gilled & gutted <input type="checkbox"/> Other....

<b>TAG NUMBER:</b>	<b>SPECIES:</b> <input type="checkbox"/> SKJ <input type="checkbox"/> BET <input type="checkbox"/> YFT <input type="checkbox"/> Other please specify:	<b>IDENTIFICATION:</b> <input type="checkbox"/> Confirmed <input type="checkbox"/> Guessed
FORK LENGTH <small>cm</small>	NO length information <input type="checkbox"/>	HOW MEASURED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
FISH WEIGHT <small>Kg</small>	NO weight information <input type="checkbox"/>	HOW WEIGHED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
		PROCESSED STATE WHEN MEASURED: <input type="checkbox"/> Fresh <input type="checkbox"/> Frozen
		PROCESSED STATE WHEN WEIGHED: <input type="checkbox"/> Whole weight <input type="checkbox"/> Gilled & gutted <input type="checkbox"/> Other....

<b>TAG NUMBER:</b>	<b>SPECIES:</b> <input type="checkbox"/> SKJ <input type="checkbox"/> BET <input type="checkbox"/> YFT <input type="checkbox"/> Other please specify:	<b>IDENTIFICATION:</b> <input type="checkbox"/> Confirmed <input type="checkbox"/> Guessed
FORK LENGTH <small>cm</small>	NO length information <input type="checkbox"/>	HOW MEASURED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
FISH WEIGHT <small>Kg</small>	NO weight information <input type="checkbox"/>	HOW WEIGHED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
		PROCESSED STATE WHEN MEASURED: <input type="checkbox"/> Fresh <input type="checkbox"/> Frozen
		PROCESSED STATE WHEN WEIGHED: <input type="checkbox"/> Whole weight <input type="checkbox"/> Gilled & gutted <input type="checkbox"/> Other....

<b>TAG NUMBER:</b>	<b>SPECIES:</b> <input type="checkbox"/> SKJ <input type="checkbox"/> BET <input type="checkbox"/> YFT <input type="checkbox"/> Other please specify:	<b>IDENTIFICATION:</b> <input type="checkbox"/> Confirmed <input type="checkbox"/> Guessed
FORK LENGTH <small>cm</small>	NO length information <input type="checkbox"/>	HOW MEASURED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
FISH WEIGHT <small>Kg</small>	NO weight information <input type="checkbox"/>	HOW WEIGHED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
		PROCESSED STATE WHEN MEASURED: <input type="checkbox"/> Fresh <input type="checkbox"/> Frozen
		PROCESSED STATE WHEN WEIGHED: <input type="checkbox"/> Whole weight <input type="checkbox"/> Gilled & gutted <input type="checkbox"/> Other....

<b>TAG NUMBER:</b>	<b>SPECIES:</b> <input type="checkbox"/> SKJ <input type="checkbox"/> BET <input type="checkbox"/> YFT <input type="checkbox"/> Other please specify:	<b>IDENTIFICATION:</b> <input type="checkbox"/> Confirmed <input type="checkbox"/> Guessed
FORK LENGTH <small>cm</small>	NO length information <input type="checkbox"/>	HOW MEASURED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
FISH WEIGHT <small>Kg</small>	NO weight information <input type="checkbox"/>	HOW WEIGHED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
		PROCESSED STATE WHEN MEASURED: <input type="checkbox"/> Fresh <input type="checkbox"/> Frozen
		PROCESSED STATE WHEN WEIGHED: <input type="checkbox"/> Whole weight <input type="checkbox"/> Gilled & gutted <input type="checkbox"/> Other....

<b>TAG NUMBER:</b>	<b>SPECIES:</b> <input type="checkbox"/> SKJ <input type="checkbox"/> BET <input type="checkbox"/> YFT <input type="checkbox"/> Other please specify:	<b>IDENTIFICATION:</b> <input type="checkbox"/> Confirmed <input type="checkbox"/> Guessed
FORK LENGTH <small>cm</small>	NO length information <input type="checkbox"/>	HOW MEASURED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
FISH WEIGHT <small>Kg</small>	NO weight information <input type="checkbox"/>	HOW WEIGHED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
		PROCESSED STATE WHEN MEASURED: <input type="checkbox"/> Fresh <input type="checkbox"/> Frozen
		PROCESSED STATE WHEN WEIGHED: <input type="checkbox"/> Whole weight <input type="checkbox"/> Gilled & gutted <input type="checkbox"/> Other....

**FISH CATCH INFORMATION / Date and position when fish was caught by the fishing vessel**

<b>DATE</b>	Exact <input type="checkbox"/>	DD	MM	YY	Estimated <input type="checkbox"/>	From	DD	MM	YY	to	DD	MM	YY
<b>POSITION</b>	Exact <input type="checkbox"/>	dd	mm.mmm	N / S	Estimated <input type="checkbox"/>	Record 2 lines of latitude and 2 of longitude to form box in which tag was likely recovered							
	Latitude	°	'			dd	mm.mmm	N / S	ddd	mm.mmm	E / W		
	Longitude	ddd	mm.mmm	E / W		Latitude Min	°	'		Longitude	°	'	
or DESCRIBE FISHING AREA:													

**FISHERY INFORMATION (Catcher / Fishing vessel that caught the tagged fish)**

<b>VESSEL NAME:</b>	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 (if tags found during set share/transshipment/unloading/)**

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

**FINDER INFORMATION / finder details for lottery**

<b>FINDER NAME:</b>	FINDER ADDRESS:
PORT OF RECOVERY:	RECOVERY INFORMATION RECEIVED AT (Fishing Company/Agency name):
ALL TAGS PROVIDED WITH THIS FORM <input type="checkbox"/> Yes <input type="checkbox"/> No (tags kept by finder for reward purpose)	IF NO, specify expected reward 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:

Attach the tags here

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\$



# SPC MULTIPLE TAG RECOVERY FORM

MULTIPLE TAGGED FISH FOUND THE SAME DAY, COMING FROM THE SAME SET or THE SAME WELL

REVISED SPC - Nov 2011

DATE WHEN TAG FOUND:	DD	MM	YY

**"When the tag is removed from the fish, be sure none of it remains inside the fish"**

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

<b>TAG NUMBER:</b>	<b>SPECIES:</b> <input type="checkbox"/> SKJ <input type="checkbox"/> BET <input type="checkbox"/> YFT <input type="checkbox"/> Other please specify:	<b>IDENTIFICATION:</b> <input type="checkbox"/> Confirmed <input type="checkbox"/> Guessed
FORK LENGTH <small>cm</small>	NO length information <input type="checkbox"/>	HOW MEASURED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
FISH WEIGHT <small>Kg</small>	NO weight information <input type="checkbox"/>	HOW WEIGHED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
		PROCESSED STATE WHEN MEASURED: <input type="checkbox"/> Fresh <input type="checkbox"/> Frozen
		PROCESSED STATE WHEN WEIGHED: <input type="checkbox"/> Whole weight <input type="checkbox"/> Gilled & gutted <input type="checkbox"/> Other....

<b>TAG NUMBER:</b>	<b>SPECIES:</b> <input type="checkbox"/> SKJ <input type="checkbox"/> BET <input type="checkbox"/> YFT <input type="checkbox"/> Other please specify:	<b>IDENTIFICATION:</b> <input type="checkbox"/> Confirmed <input type="checkbox"/> Guessed
FORK LENGTH <small>cm</small>	NO length information <input type="checkbox"/>	HOW MEASURED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
FISH WEIGHT <small>Kg</small>	NO weight information <input type="checkbox"/>	HOW WEIGHED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
		PROCESSED STATE WHEN MEASURED: <input type="checkbox"/> Fresh <input type="checkbox"/> Frozen
		PROCESSED STATE WHEN WEIGHED: <input type="checkbox"/> Whole weight <input type="checkbox"/> Gilled & gutted <input type="checkbox"/> Other....

<b>TAG NUMBER:</b>	<b>SPECIES:</b> <input type="checkbox"/> SKJ <input type="checkbox"/> BET <input type="checkbox"/> YFT <input type="checkbox"/> Other please specify:	<b>IDENTIFICATION:</b> <input type="checkbox"/> Confirmed <input type="checkbox"/> Guessed
FORK LENGTH <small>cm</small>	NO length information <input type="checkbox"/>	HOW MEASURED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
FISH WEIGHT <small>Kg</small>	NO weight information <input type="checkbox"/>	HOW WEIGHED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
		PROCESSED STATE WHEN MEASURED: <input type="checkbox"/> Fresh <input type="checkbox"/> Frozen
		PROCESSED STATE WHEN WEIGHED: <input type="checkbox"/> Whole weight <input type="checkbox"/> Gilled & gutted <input type="checkbox"/> Other....

<b>TAG NUMBER:</b>	<b>SPECIES:</b> <input type="checkbox"/> SKJ <input type="checkbox"/> BET <input type="checkbox"/> YFT <input type="checkbox"/> Other please specify:	<b>IDENTIFICATION:</b> <input type="checkbox"/> Confirmed <input type="checkbox"/> Guessed
FORK LENGTH <small>cm</small>	NO length information <input type="checkbox"/>	HOW MEASURED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
FISH WEIGHT <small>Kg</small>	NO weight information <input type="checkbox"/>	HOW WEIGHED? <input type="checkbox"/> Measuring tool <input type="checkbox"/> Estimated
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		PROCESSED STATE WHEN WEIGHED: <input type="checkbox"/> Whole weight <input type="checkbox"/> Gilled & gutted <input type="checkbox"/> Other....

**FISH CATCH INFORMATION / Date and position when fish was caught by the fishing vessel**

<b>DATE</b>	Exact <input type="checkbox"/>	DD	MM	YY	Estimated <input type="checkbox"/>	From	DD	MM	YY	to	DD	MM	YY
<b>POSITION</b>	Exact <input type="checkbox"/>	dd	mm.mmm	N / S	Estimated <input type="checkbox"/>	Record 2 lines of latitude and 2 of longitude to form box in which tag was likely recovered							
	Latitude	°	'			dd	mm.mmm	N / S	ddd	mm.mmm	E / W		
	Longitude	ddd	mm.mmm	E / W		Latitude Min	°	'		Longitude	°	'	
or DESCRIBE FISHING AREA:													

**FISHERY INFORMATION (Catcher / Fishing vessel that caught the tagged fish)**

<b>VESSEL NAME:</b>	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 (if tags found during set share/transshipment/unloading/)**

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

**FINDER INFORMATION / finder details for lottery**

<b>FINDER NAME:</b>	FINDER ADDRESS:
PORT OF RECOVERY:	RECOVERY INFORMATION RECEIVED AT (Fishing Company/Agency name):
ALL TAGS PROVIDED WITH THIS FORM <input type="checkbox"/> Yes <input type="checkbox"/> No (tags kept by finder for reward purpose)	IF NO, specify expected reward 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:

Attach the tags here

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\$

**SPC/FFA REGIONAL OBSERVER  
TRIP RECONCILIATION**

**FORM  
SUP-3**

REV. MAR. 2014	OBSERVER NAME	VESSEL NAME	VESSEL CALL-SIGN	OBSERVER TRIP ID No.
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TRAVEL DETAILS									
EVENT CODE	DEPARTURE			ARRIVAL			ACTIV- ITY CODE	DAYS	COMMENTS
	PLACE OR VESSEL	DATE	TIME	PLACE OR VESSEL	DATE	TIME			

**ALL DETAILS TO BE FILLED OUT IN A CHRONOLGICAL ORDER**

EVENT CODES		ACTIVITY CODES	
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 MAR. 2014

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 \_\_\_\_\_ on \_\_\_\_\_ Register \_\_\_\_\_  
and data was sent (hand caried, courier, express mail, etc.) (date) red 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: \_\_\_\_\_

**New for 2014:** 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**
- 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 accomodation 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.

<b>OBSERVERS' GUIDE TO BEAUFORT SCALE, WIND AND SEA STATE</b> (a rough guide for the open sea)						
<b>Beaufort number</b>	<b>Descriptive term</b>	<b>Open sea criterion</b>	<b>Mean wind speed (kts)</b>	<b>Likely wave height (m)</b>	<b>Observers' sea state code</b>	
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		
11	Violent storm	Exceptionally high waves (hiding small to medium ships)	56-63	11.5	Time to be concerned ! Our condolences !	
12	Hurricane	Air filled with foam and driving spray; visibility minimal	more than 64	14		