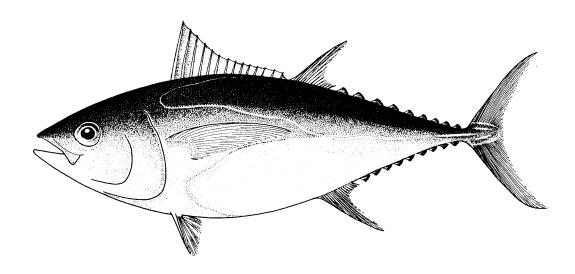
# REPORT OF THE SEVENTH MEETING OF THE TUNA FISHERY DATA COLLECTION COMMITTEE

12–16 November 2007 Brisbane, Queensland Australia





Oceanic Fisheries Programme Secretariat of the Pacific Community Noumea, New Caledonia



Forum Fisheries Agency Honiara Solomon Islands

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#### 1. PRELIMINARIES

## 1.1 Appointment of Chairman and Rapporteurs

1. Mr Timothy Park was elected chairman of the Tuna Fishery Data Collection Committee<sup>1</sup> and Mr Peter Sharples was elected vice-chairman. Mr Peter Sharples, Mr Peter Williams and Mr Timothy Lawson were appointed rapporteurs, and Ms Deirdre Brogan was appointed head rapporteur.

## 1.2 Adoption of Agenda

2. The agenda was adopted as presented in Appendix 1.

## 2. REGIONAL DEVELOPMENTS

## 2.1 Status of the Regional Observer Programme

- 3. Mr Karl Staisch updated the participants on the latest developments with the WCPFC Regional Observer Programme (ROP). He mentioned that the ROP is currently a major priority for the WCPFC and that much of the documentation to manage and support an active programme has already been drafted by the Secretariat. However, there is considerable progress yet to be made on the draft CMM before it can be fully implemented.
- 4. The operational jurisdiction of the ROP was outlined. Vessels fishing on (a) the high seas only, (b) on the high seas and one EEZ, and (c) in two or more EEZs, whether or not they have been fishing on the high seas, will all come under the jurisdiction of the Regional Observer Programme. No final decision has yet been made regarding ROP data standards or data collection forms; however, it is expected that the DCC forms may be used by certain SPC/FFA member countries, if they are consistent with the minimum standards adopted by the Commission.
- 5. DCC7 document 9 on minimum data standards which was prepared for IWG-ROP and TCC3 following on from the outcomes of SC3 was considered. The group reflected on each of the data fields on the list which were in square brackets and for which consensus had not yet been reached. The DCC has outlined below their justification for accepting, rejecting or adding items to the minimum data standards list.

<sup>1</sup> The Tuna Fishery Data Collection Forms Committee was established at the Ad Hoc Meeting on Tuna Fisheries Data Collection Forms, 11–14 December 1995, Brisbane, Australia (Anonymous, 1996), which was attended by staff of the Forum Fisheries Agency and the South Pacific Commission. The Committee is an internal SPC and FFA committee responsible to the Director of FFA and to the Director of the SPC Marine Resources Division. The second meeting of the Committee was held from 11 to 13 December 1996 in Brisbane, Australia; the third meeting was held from 9 to 10 December 1998 in Brisbane, Australia; and the fourth meeting was held from 6 to 8 December 2000 in Brisbane, Australia. During the fourth meeting, the name was changed to the Tuna Fishery Data Collection Committee. The fifth meeting was held from 2 to 6 December 2002 in Brisbane, Australia and the sixth meeting was held from 16 to 24 November 2007.

#### Longline

- A number of the minimum data standards are related to sea bird mitigation methods as referred to in the conservation and management measure CMM 2006-02. As part of this management measure, observers will be required to report on a vessel's mitigation methods, suggesting that these data items should be considered as minimum data standards. Specifically these data items are tori pole, bird curtain, weighted branchline, blue dyed bait, underwater setting and disposal methods for offal management.
- Other data items that relate to the conservation and management measure CMM 2006-05 on sharks and should also be considered as minimum data standards include hook type, hook size and wire trace.
- It is possible to estimate the fishing depth of the hook by collecting a number of data items and producing a catenary curve of the fishing line. The essential data items are number of hooks per basket and length of the floatline, which are on the list, and vessel speed and line shooter speed, which are not. It was thought that 'TDR' should not be a minimum data standard; rather, TDRs are an essential piece of equipment for observers to determine fishing depth.
- The distance between branchlines is used to establish the total length of the fishing line.
- The total number of baskets can be used in conjunction with the number of hooks per basket to calculate the total number of hooks <u>set</u> and should also be considered a minimum standard.
- The number of hooks <u>observed</u> is essential for calculating catch rates from longline observer data; in this regard, the number of hooks observed **must** be a minimum standard. The number of baskets observed can be used to estimate the number of hooks observed and should also be considered a minimum standard.
- Targeting practices will be better documented if lightsticks are considered as a minimum data standard.

## Pole-and-line

• To ascertain the amount of bait on board, which is an important component of fishing effort, it was suggested that 'the amount of bait on board at the start of the day' (or data items that could be used to calculate the amount of bait on board) should be a minimum standard.

#### Purse seine

There were no data items with square brackets for purse seine or any other minimum standards that the
meeting wished to add.

#### Species of Special Interest

• There were no data items with square brackets for species of special interest or any other minimum standards that the meeting wished to add.

## Vessel and Aircraft Sightings

There were no data items with square brackets for vessel and aircraft sightings or any other minimum standards that the meeting wished to add.

• There were no data items with square brackets for observer trip monitoring summary or any other minimum standards that the meeting wished to add.

## 2.2 CMM 2006–05, Conservation and Management Measure for Sharks in the Western and Central Pacific Ocean

6. The DCC was briefed by the WCPFC, Regional Observer Programme Co--coordinator Mr. Karl Staisch on the WCPFC CMM for sharks (2006-05) which comes into force on 1<sup>st</sup> January, 2008. Initially this measure shall apply to vessels greater than 24m in overall length. The CMM is a policy document and for that reason participants were cautioned that the implementation of the paragraph points will be open to interpretation. The DCC discussion concentrated on point 7, which was thought to be the most relevant to the work of the DCC. It outlines a requirement for vessels, who are currently required to offload fins and carcasses at the point of first landing, to take necessary measures to ensure compliance with the 5% ratio through certification, monitoring by an observer or other appropriate measures. The WCPFC Regional Observer Programme Coordinator put forward the possibility that Commission forms to cater for this CMM may be required. The meeting noted that the DCC approved forms currently used by FFA/SPC observer sub-regional and national programmes already record most of the required details except for the fin weight.

## 2.3 Status of Conservation and Management Measure for Transhipment Monitoring

- 7. The meeting considered the proposed draft transhipment monitoring form in WCPFC-TCC3-08 [Transhipment draft CMM] and DCC7 Document 8, "Review of the WCPFC transhipment reporting form for data collection for scientific purposes".
- 8. DCC7 Document 8 reviews the draft WCPFC transhipment monitoring form, highlighting omissions and differences when compared to the current DCC unloading forms. The review lists 15 observations and the meeting considered the following eight to be the most important:
- The draft WCPFC form does not cater for recording the "destination" of the carrier (receiving) vessel. For example, this information is important in tracking tagged fish, which were recovered in a cannery that was supplied by a carrier vessel, back to the original catcher vessel. The "destination" of the carrier vessel is therefore important for scientific purposes.
- The draft WCPFC form does not cater for the recording of the <u>number of fish</u> by species which is, for example, fundamental in the longline fishery for verifying the catch on logsheets. The number of fish is not required for purse seine transhipments.
- The draft WCPFC form does not cater for species other than the main tuna species and the unloadings of other species, particularly billfish species caught by longline vessels, are required to verify with catches reported on logsheets and determine catch estimates.
- The draft WCPFC form has the provision for recording detailed information (attributes) on both the vessel transhipping from and the vessel transhipping to. It may be simpler to merely record the Vessel Name, Flag, Registration Number and IRCS, and include the WCPFC Identification Number to reference the other vessel attributes stored in the WCPFC Vessel Record.
- The draft WCPFC form does not cater for a period of transhipment between vessels that extends more than one day (i.e. transhipment day "from" and transhipment day "to" are required).
- It is not clear whether the "departure" and "return" dates on the draft WCPFC form is for the transhipping vessel (i.e. dates for the fishing trip) or the receiving vessel (dates for transhipping). Since the WCPFC form will be used to record one transhipment event, the date of

- departure for the carrier vessel may not be known at the time of completion of the form which may be problematic.
- The draft WCPFC form has provision for entering more than one "Port Name" and "Latitude/Longitude" position against each species group. If one WCPFC form covers one transhipment event, then there should be only one port or position recorded. The fields for the additional ports/positions should therefore be removed.
- 9. The DCC noted the fundamental importance of unloadings data as a means of verifying catches reported on logsheets and identifying IUU activities. In this regard, it was suggested that the WCPFC should consider compiling data covering all unloadings, whether transhipments in port or at sea, or deliveries to canneries, cold stores or otherwise. It was considered that the draft WCPFC transhipment monitoring form could easily be modified for this purpose.

## 2.4 Status of Conservation and Management Measure to reduce juvenile bigeye and yellowfin mortalities on FADs

10. The implication of the CMM 2006-01 was discussed in relation to data collection. The CMM on bigeye and yellowfin outlines a number of measures which could in principle have an impact an observer programme coverage levels and data standards. The CMM clearly calls for the number of FADs to be recorded, but there would also seem to be a need to gather information on FAD designs. A form to capture FAD design was proposed by the WCPFC Regional Observer Programme Coordinator. The WCPFC draft FAD form uses similar data fields as the IATTC FAD form, but was designed in a way that allowed more than one FAD per page to be recorded. The draft FAD form will eventually go to the SC and TCC for their consideration and approval. It was also noted that there was a proposal for changes to the CMM on Big-eye and Yellowfin Tuna to be discussed at WCPFC4.

## 3. REVIEW OF CATCH AND EFFORT LOGSHEETS

## 3.1 General

## WCPFC standards for operational data

11. The DCC logsheets were cross-checked against the WCPFC standards for operational data, which are listed in an appendix of the guidelines for Scientific Data to be provided to the Commission. These were adopted by the Commission at its second regular session in December 2005 and subsequently modified at its third regular session in December 2006 in regard to the inclusion of Pacific bluefin, and are posted on the WCPFC website. The only inconsistencies were that columns for recording the catches of certain species were not included on the DCC logsheets; these include skipjack and albacore on the longline logsheet, albacore and Pacific bluefin on the pole-and-line and purse-seine logsheets, and bigeye and Pacific bluefin on the troll logsheet. However, it was considered that catches of the missing species by the fleets that use the DCC logsheet were negligible, and that the names and catches of the missing species could still be recorded in the columns for 'Other Species' on each of the logsheets, so changes to the DCC logsheets in this regard were unnecessary.

## Transhipment at sea

12. It was noted that the length of trips recorded on logsheets for certain vessels, notably Korean longliners, are so long in duration that they must be transhipping at sea; however, the correct usage

of the logsheets is that a new trip, and hence and new logsheet, should be started after each unloading, whether full or partial and whether in port or at sea. It was suggested that a new activity code could be introduced for "Transhipping at sea"; however, it was felt that this would be confusing because it is not consistent with the correct usage of the logsheets and would perhaps encourage the incorrect usage of the forms. Instead, it was agreed to (a) modify the activity code on the longline, pole-and-line, handline and troll logsheets for "A day at sea not fished and not in transit" to also include "Please specify", so that vessels at least have a mechanism to record that transhipping took place, and (b) to modify the instructions regarding the definition of the start and end of a trip for those logsheets accordingly. It was also agreed to (c) add a third bullet point in the block at the top of the logsheets to specify that a new logsheet should be started after full or partial unloading. The purse-seine logsheet has a block to record unloadings data, so it was felt that these changes to the purse-seine logsheet were unnecessary.

## Place of Unloading

13. It was also agreed to modify the 'Port of Unloading' field to 'Place of Unloading' to cater for any transhipment at sea, if such was the case.

## FFA Regional Register Number

14. The meeting was advised that the FFA Regional Register Number is now referred to as the FFA Vessel Register Number, so this change was made on all of the logsheets.

#### FFA Type Approved ALC

15. It was agreed that this field, which was adopted during the initial phases of the implementation of VMS in order to monitor the level of implementation, was no longer necessary and could be deleted.

## WCPFC Identification Number (WIN)

16. It was agreed that the WIN should be recorded on the logsheets in order to link the vessel to vessel attributes maintained on the WCPFC list of authorised vessels.

## 3.2 Longline logsheet

## Recording catches of small tuna

17. The need to separate the catches of small and large tuna was discussed at several points during the meeting. Whenever small and large tuna are recorded together there is the risk of biased average weights (since catch is divided by weight) and this is best avoided, especially noting that OFP scientists have used average weight for tuna in the past. However, it was accepted that the longline logsheet was already tight for space and the best solution was to amend the instructions to clarify and encourage fishers to record small tuna < 9kg in the 'other species' column. This manner of recording small tuna is already practised by some fleets and the group agreed to endorse this method for recording catches of small tuna.

## 3.3 Shark longline logsheet

#### **Instructions**

18. Instructions for the shark longline logsheet are not currently available and it was agreed that instructions would be developed.

## 3.4 Pole-and-line logsheet

19. No changes were proposed for the pole-and-line logsheet, other than the general changes discussed above.

## 3.5 Purse-seine logsheet

## Well mixing

20. Well mixing is common on purse seiners operating in the region, and particularly on Taiwanese vessels, and renders difficult the selection of wells for port sampling. It was therefore agreed to modify the instructions for 'Well Numbers' to record well mixing with arrows, such as "P2, P3  $\rightarrow$  S4". It was also suggested that a form for recording well mixing should be developed; however, it was considered that prior to developing a new form, an analysis to determine the extent of well mixing in the region and for each of the fleets should be conducted and that the issue should be reconsidered at a subsequent meeting of the DCC.

## Recording catches of yellowfin and bigeye by small and large size categories

- 21. In anticipation of the fact that the analysis of species composition data collected by purse-seine observers and port samplers may, in the future, be conducted by stratifying the data into large and small size categories (i.e., greater or less than 20 lbs or 9 kg or 80 cm) to deal with the problem of selection bias, the need to record catches of yellowfin and bigeye by size category on purse-seine logsheets was considered.
- 22. It was noted that in some purse-seine fisheries large numbers of small fish may be taken. When small and large fish catch records are combined a biased average weight (catch divided by number) may result. Such a weight bias should be avoided, especially noting that OFP scientists have used an average weight for tuna in the past. While noting that earlier form versions and forms used by other tuna commissions have successfully catered for small and large size categories the group agreed to amend the purse-seine logsheets accordingly.

## 3.6 Handline logsheet

23. No changes were proposed for the handline logsheet, other than the general changes discussed above.

#### 3.7 Troll logsheet

24. The troll logsheet was developed in February 2006 in response to a request from New Zealand and adopted as a DCC form at the current DCC meeting.

## Application to North Pacific

25. The troll logsheet was developed for use in the South Pacific; hence, the inclusion of a column for recording the catches of southern bluefin. It was considered that it may be useful if the logsheet could also be used in the North Pacific. In this regard, it was agreed that a column for recording the catches of Pacific bluefin will be included since it was determined (after the meeting), that Pacific bluefin are a common catch of trollers operating in the North Pacific. With this species change the troll logsheet becomes relevant to fleets in the North Pacific and the logsheet's title was updated to read the Regional Troll Logsheet to encompass these potential users.

#### Hours searched

26. It was considered that 'Hours Fished' was sufficient as a measure of effort and that 'Hours Searched' was both ambiguous as a measure and unnecessary. It was therefore agreed to delete 'Hours Searched'.

## 3.8 Longline logbook

- 27. The results of trials of the longline logbook were presented in DCC7 Document 16. Further results for the trials conducted in Papua New Guinea were also made available. All captains involved in the trial stated that they were comfortable with the overall format and the data fields that were included. Any reservations that were raised were in reference to the total amount of information which they were required to fill in, or more especially the requirement to fill in a page for days not fished.
- 28. The future use of the logbook was considered. The global introduction of a longline logbook, either in the short or medium term, was thought too onerous a move in terms of regional data management. However, some national fishery departments expressed a preference for using the longline logbook over the standard logsheets. The logbook was also thought to have a place in specific research projects, i.e. the cetacean interaction project in Fiji.

## 3.9 FAD logsheets

- 29. The FAD logsheet was originally developed to evaluate the effectiveness of FADs in the artisanal fisheries of the Cook Islands and Niue. It was considered that these logsheets could be further developed for general use in the region and a new version of the form was developed. The new logsheet is a daily form, similar to the old logsheet, but with separate blocks to record data for periods during which different types of fishing activities are carried out. The intention is that the new logsheet either be completed by artisanal fishermen or used by fisheries officers as a survey form.
- 30. Suggestions to improve the new logsheet included using codes to record activities, using A5 paper to reduce the size of the form so that it will be more convenient for use onboard small vessels, and generally simplifying the form. These suggestions will be developed following DCC7 and a revised form considered at the next DCC meeting.

## 3.10 Implementation of DCC logsheets

- 31. DDC7 Document 17, "Implementation of the SPC/FFA Regional Logsheet forms," was presented. The implementation of the logsheets is summarised in the table in Appendix 4. This table includes two columns indicating the provision of DCC logsheets to SPC as at December 2004 (DCC6) compared to what had been received at SPC by October 2007, which provide an indication of progress in implementation since the last DCC meeting. There is also a column indicating the most recent version of form that has been provided by each fleet.
- 32. It was noted that there had been further progress in the implementation of the standard logsheets, with most fleets now using one version or another of the regional standard logsheets. However, as at October 2007, no fishing fleet had yet provided data recorded on the 2004 version of the regional standard logsheets to SPC. It was acknowledged that there were two main reasons for the absence of 2004 logsheets at this stage. Hard-copy versions of the DCC6 report, with the 2004 versions of forms, were not disseminated since it was decided to instead make the electronic versions of the forms available via the SPC/OFP web site. The electronic versions of the forms were made available in 2006, and member countries were obliged to wait until the renegotiation of

access agreements and/or new licensing periods for the opportunity to introduce the latest version of the forms. This lag meant that, while some member countries have made efforts to have the form introduced, SPC had yet to receive any 2004 version logsheets prior to DCC7. It was noted, for example, that Papua New Guinea had contacted all fishing companies during October 2007 to request that they implement 2004 versions of the logsheets as soon as possible.

- 33. To formalize the introduction of new versions of the standardized logsheets, it was recommended that the following areas be targeted, as has been the case in previous DCC meetings:
  - (i) A paper and/or presentation requesting member countries to adopt the latest version of the regional standard logsheets (with an explanation of the latest changes) should be considered for appropriate regional fora (for example, the Forum Fisheries Committee–FFC, and the SPC Heads of Fisheries Meeting–HOF),
  - (ii) The latest versions of the regional standardized logsheet forms should be included in National Tuna Management Plans in the future (with provision for revision when updates to these forms occur),
  - (iii) The latest versions of the regional standardized logsheet forms should be included in any legal (or otherwise relevant) documentation for the annual licensing of foreign and domestic fleets by each country, and
  - (iv) Procedures for ensuring that, at least, (ii) and (iii) above are regularly reviewed and undertaken should be included in National Tuna Fishery Data Collection, Management and Dissemination Procedures Document.
- 34. It was agreed that SPC and FFA should take advantage of every opportunity to raise awareness and ensure that the DCC logsheets are implemented in the future.

#### 4. OBSERVER PROGRAMMES

## 4.1 The use of Observer Forms

35. Observers in Pacific Island national and sub-regional observer programmes use standard sets of data collection forms, reviewed periodically at Data Collection Committee meetings and adjusted according to recommendations emerging from those reviews. At the 7<sup>th</sup> DCC the following observer data collection forms were presented for review:

Longline

#### LL-1 General Information: One form per trip

On which the observer collects information about the trip details (trip dates and ports); vessel (name, owner, captain, flag, reg., call sign, license, crew number and nationality); electronics; fishing gear; refrigeration methods; safety equipment.

#### LL-2/3 Set and Haul Information: One form per set

On which observer collects information about the longline set specifications; bait; set times and positions, haul times and positions, unusual set details.

## LL-4 Catch Monitoring: Multiple forms (one line per hooked species)

On which the observer collects details about the catch (hook number, time of observed, condition on capture (and release if released), length, weight (if possible), sex, fate and other important incidental information such as tags recovered, etc.

## LL-5 Longline Conversion Factors

On which the observer collects multiple morphological details about the same fish. This information is used to generate conversion factor data.

Purse seine

#### PS-1 General Information: One form per trip

On which the observer collects the same as the LL-1 form but with more information recorded on crew details (names) and well storage.

## PS-2 Daily Log: One form per day (a second if required, but this is rare)

On which the observer maintains a timeline of standard activities undertaken by the vessel throughout the day (that the start of one activity marks the end of the previous activity is an important concept); the behaviour and types of tuna schools encountered is also recorded on the daily log.

#### PS-3 Set Details: One form per set

On which the observer collects information on the set sequence (times), observed and recorded catch (species, amounts and fates) and other important incidental information such as tags recovered, etc.

PS-4 Length Measurements: One or more forms per sample type (up to four samples types possible per set, but usually only one and occasionally two are completed)

On which the observer records the species and lengths of fish that they measure, the total number of brails and their relative fullness.

PS-5 Vessel Logsheet and Well Loading Reconciliation: One to two forms per trip, optional (information used for reconciliation purposes only)

On which the observer tracks the movement of fish between wells.

Pole-and-line

#### PL-1 General Information: One form per trip

On which the observer collects much the same information as the LL-1 form.

PL-2 Daily Log: One form per day (as second if required, but this is rare)

On which the observer maintains a timeline of standard activities undertaken by the vessel throughout the day.

PL-3 Catch details: One form per fishing event (single continuous period of spraying, chumming and poling)

On which the observer records the total amount time fishing, the total catch and the species and the lengths of the fish they measure.

*General* (All gear types)

GEN-1 Vessel and Aircraft Sightings and Transfer Log: (as many forms as required during trip - usually 1-3)

On which the observer records details of other fishing related vessels and aircraft they have sighted and details about any transfers between vessels at sea that they have witnessed (transfers of anything but with strong emphasis on transfers of fish).

GEN-2 Species of Special Interest: Multiple forms, one form for each SSI encounter

On which the observer records extra details of encounters (sightings, vessel interactions or landings) of species of special interest (currently marine mammals, sea-birds, turtles and whale sharks).

GEN-3 Vessel Trip Monitoring Record: one (very important) form per trip

On which the observer ticks off whether any one of set list of incidents (with potential to be described as infringements) they witnessed during their trip.

(Currently, there are no GEN-4 and GEN-5 forms. These forms were in use previously, and the form numbers have been reserved for data which may be considered in the future.)

GEN-6 Pollution Report: Multiple forms, one form for every pollution event

On which the observer records details of polluting activities that they witness during the trip - type of pollution, amount of pollution, time and position, etc.

## 4.2 Review of Observer Forms

#### **GENERAL**

#### Workbook Insert

36. The next print of observer workbooks will contain forms that have been updated as a result of this meeting. To ensure that observers are aware of all changes an insert that describes the change and instructs the observer on any new sampling requirements and protocols associated with that change will be included.

## **Tagging**

37. At the time of and in the year following DCC7 a major tuna tagging programme is being carried out through the WCPO. It is anticipated that the large number of tags being released could lead to substantial recaptures in the initial stages of the programme. Although observers are able to record tag re-capture details on the current set of forms it is considered the capacity to record this type of information in standard workbooks may be too limited to do justice to the tagging programme. Hence it is recommended that the next print of workbooks also contain several of the tag recapture forms that have been designed for the project.

#### LONGLINE OBSERVER FORMS

#### FORM LL-1 • LONGLINE OBSERVER GENERAL INFORMATION

#### Weather

38. It was agreed that the "Weather facsimile" field should be amended to reflect the fact that more vessels are now using alternative means to monitor weather patterns than the traditional weather facsimile machine. Observers will now be asked to indicate whether a weather fax and / or a satellite monitor was used onboard.

#### Navigation radar and bird radar

39. Observers are no longer required to collect information about navigation radar onboard longline vessels. However, on purse seiners and pole-and-line vessels they are still required to check whether there are dedicated "bird radar" units onboard and to collect make, model and usage information.

#### **VMS**

- 40. Discussion focussed on the need for a clearer understanding of what information was required as there is often confusion as to whether observers should be collecting information about VMS system types or information on the ALC units themselves. To ask observers to collect an ALC seal number when several seals with separate numbers are usually applied to ALCs can also be confusing. It was recommended that the appropriate section of the LL-1 form be adjusted to reduce the confusion in these areas.
- 41. It was further recommended that future LL-1 forms be able to cater for information on more than one VMS system, as a growing number of vessels in the region are now required to carry more than one VMS system.

#### Communications services

42. It was agreed to change the term "Satellite communications services" to "Communications services" to acknowledge growing use of mobile phones and to alter the field structure on the form to be able to record information on each communication service available on board.

#### Line materials

43. It was recommended to review and improve instructions so observers can standardise their use of terms for describing line materials. Changes have been made to form instructions and the adoption, for use by observers, of the descriptions of line materials provided in the SPC Horizontal Longline Fishing Manual for Fishermen will assist with consistency.

#### Hooks

44. The topic of observer collection of information on hook types was not covered during the DCC7 meeting in Brisbane. This was a definite oversight and the topic is considered important enough to make an intercessional canvas of committee members soon after the meeting to seek approval to include fields on the LL-1 form to record which of the three basic hook types was used (Japan tuna hook, circle hook or "J" (big game) hook) and what size of hook was used. These are important elements of information in studies of turtle catch and catch mitigation. Approval was

granted in this exercise, during which it was further recommended that fields to capture if other hook types were used and to indicate if more than one hook type was used should also be included.

#### Radio buoys

45. Whether call-up or non-call-up buoys are used on longliners has not been used in effort assessments and the need to know which is on board has been superseded by the need to know whether more sophisticated methods of line detection are now being used. Also, it is believed that observers may often err in their assessment of which is on board, as they are difficult to tell apart. Make and model names/numbers of call-up and non-call-up buoys are often not so easy to obtain, may be many and varied on the same boat and the issue may be further confused when vessels recover or exchange buoys from other vessels. Hence making good sense of the information that observers currently collect will be a difficult task for little gain in knowledge, if any. Hence it was considered that to retain fields to collect information on call-up and non-call up buoys on the LL-1 form is superfluous and recommendation was made to drop these fields from the form.

#### **EPIRBs**

46. The safety equipment section on LL-1 forms was introduced at DCC6. As a new section it was anticipated that there may be need for some revision at DCC7. However, the section seems to have functioned well with some recommendations for improvement. However, the sub-section on EPIRBs has caused some confusion with respect to understanding what EPIRB "type" referred to. This is further exacerbated by new international regulations that discourage and are gradually phasing out one of the particular types (121.5/243 MHz) that the LL-1 specifically caters for. Several observers have also mentioned that they have encountered EPIRBs that have expired battery renewal date stamps. There was consensus that this was a significant piece of information on safety capability and should be collected in a systematic manner. Simple adjustments to the LL-1 form were recommended to address all of these issues.

#### Life rafts

47. It was noted that sometimes observers cannot find the information on life-rafts to effectively complete the appropriate fields on the LL-1 form, particularly the expiry or inspection due dates. The information should be available and not being so may indicate general poor safety procedures. It was recommended that observers be asked to indicate when the inspection dates were clearly available on stickers or plates on life rafts and LL-1 form instructions be adjusted to facilitate this. Observers have also reported that sometimes the last inspected date is all that they can locate rather than a due date of inspection. The LL-1 form will be adjusted so that observers will indicate whether a recorded date is the last date of inspection or the due date for inspection.

#### Usage codes

48. There was some discussion on usage codes and different expectations expressed. Changes were made to the usage codes "ALL", OIF" and "SIF" to try to reduce some confusion. All three codes are used in relation to fishing activities. The main change was to the definition for "ALL" now reads as "used all the time in fishing". This is to counter the confusion that sometimes arises when trying to apply a usage code against a piece of equipment that gets used every time a fishing operation is carried out, but is not used at other times. The definition for OIF now reads used often in fishing and 'SIF' used sometimes in fishing'.

#### FORM LL-2/3 • LONGLINE OBSERVER SET AND HAUL INFORMATION

## Target species

49. A small change in recording protocol to use an "X" instead of a tick in the fields for indicating target species was recommended to avoid ticks being confused with the dashes that observers are trained to record in fields for which there is no data.

## Time labels for comments

50. Another small formatting change that added a column to the comments section to encourage observers to apply a suitable "ship's time" label to a comment on an event was recommended.

## Number of fields for bait information

51. Adjustments to the LL-2/3 form to record information for up to five instead of the previous four bait types were asked for and accepted.

#### Minor formatting and instruction changes

52. A few other minor formatting and instruction changes were recommended to improve clarity. These included: a note in the instructions to remind observers to convert values recorded in knots to m/sec before calculating line length using this value; minor editing of abbreviations to bring them into line with SPC editing standards (kgs to kg, No.s to Nos).

#### FORM LL-4 • LONGLINE OBSERVER CATCH MONITORING

## Hook numbers and direction of haul

53. The meeting was asked to consider the issue of hook numbers with respect to how they are recorded by observers and in the regional observer database and what impact the direction of haul would have on making analysis that involved hook numbers. When a set is made observers have noted the bait sequence or pattern by recording which number hook the bait is attached to. At this stage the observer has numbered hooks logically through a basket starting with the first hook set and ending with the last set before the next buoy is set. When a haul is made observers record the number for each hook an item of catch is on as a point of information relating to that item of catch. This indicates the setting depth of the hook to fisheries scientists. As such, whether the hook is counted from one end of the basket or the other doesn't matter and so whether the vessel hauls line from the first hook set or last hook set doesn't matter. Observers are now allocating hook numbers by counting from first hook hauled in a basket to the last hook hauled. Consequently, observers have raised the issue that problems may arise if any analysis is made on bait with respect to catch. If the vessel hauls from last hook set back done the line – the most common strategy – then the hook numbers for catch in a basket are reversed from the hook numbers for bait. To address this issue there was some discussion around whether a field should be made available on the LL-2/3 form for observers to indicate whether haul was in same direction of set or the reverse of set. Generally it was considered that the position data that observers collect was sufficient to establish the respective directions of set and haul but that it should that there should be some reminder tag with the data on electronic file that this situation not be overlooked and that observers should be directed to continue to record as described and not be tempted to re-number their bait pattern to match the direction of haul.

#### Weight columns

54. Discussion around the usefulness of removing the weight columns on the LL-4 form led to no recommended change. Although these columns have seldom been used in the past there is no pressing need for extra space on the current LL-4 form and there is probability that these columns may be useful to address some facets of conservation and measurement measures on sharks that the Commission is likely to introduce in the near future.

#### Codes

55. A need to capture the practice, described in other regions, of fishers deliberately cutting off species of special interest (SSI) in a manner which would thwart observers properly recording any hooked SSI, led to a discussion on the need to amend the fate codes. It was proposed to separate the DSO (discarded stuck off) fate code into two different codes; DCF (discarded cut free) or DCO (discarded cut off). While it was recognised that it will always be difficult for observers to know exactly the reason a species was struck off, and at the same time identify any SSI that have been deliberately struck or cut off, the new fate code DCF (discarded cut free or far) will be included to offer observers the opportunity to record this practice if observed.

#### FORM LL-5 • LONGLINE CONVERSION FACTORS

56. No changes were proposed for this form.

## **POLE-AND-LINE OBSERVER FORMS**

#### FORM PL-1 • POLE-AND-LINE OBSERVER GENERAL INFORMATION

## Various changes as described for LL-1

57. Various changes recommended for the LL-1 and PS-1 form, and described in the section on the LL-1 form, were also recommended for the PL-1 form. These include changes to fields that contain information for GPS units, radar, weather monitors, VMS, communications services, radio buoys, EPIRBs, life rafts and usage codes.

## FORM PL-2 • POLE-AND-LINE OBSERVER DAILY LOG

## Bait onboard at start of day

58. An important function of a pole-and-line vessel's ability to fish is the amount of bait onboard. Knowing the amount of bait on board at the start of each day could help interpret aspects of vessel behaviour with respect to other factors that influence effort. The PL-2 (daily log) will be modified to collect this information.

#### FORM PL-3 • POLE-AND-LINE OBSERVER CATCH DETAILS

59. No changes were proposed for this form.

#### PURSE-SEINE OBSERVER FORMS

#### FORM PS-1 • PURSE SEINE OBSERVER GENERAL INFORMATION

## Various changes as described for LL-1

60. Various changes recommended for the LL-1 and PL-1 form, and described in the section on the LL-1 form, were also recommended for the PS-1 form. These include changes to fields that contain information for GPS units, radar, weather monitors, VMS, communications services, radio buoys, EPIRBs, life rafts and usage codes.

#### Electronics review

61. The 2004 version of the PS-1 form does not adequately cater for the amount of electronic equipment found on many modern purse seine vessels. Typically, there may be several colour plotters, radar units, colour and other sounders, radio direction finders and radio buoy call-up signal generators. The 2004 PS-2 form caters for just one of each. It was proposed without challenge that there is little gain from knowing the make and model of these particular items and recommended that the PS-1 form is modified along the same lines as the LL-1 form has been previously redesigned to indicate whether the particular equipment types are onboard and how they are used. More specific information about make and model need only be collected for items that are less common through the fleet or have uncertain impact on fishing effort.

## Tow boats, light boats or auxiliary boats onboard

62. Because light boats and tow boats are often hard to differentiate, and often are dual purpose, how to separately count them has proved a confusing area for observers. To prevent this confusion it is recommended that a single field for auxiliary boats should replace the two fields currently employed for tow boats and light boats. This will also clear up confusion on whether other tender vessels that may function as light boats for the observer's catcher vessel but are not carried onboard by that vessel should be counted (see following paragraph).

#### Other tender vessels

63. It is becoming increasingly common in our region for purses seine vessels to work in conjunction with other vessels. Sometimes these other vessels take over the functions of auxiliary boats once carried on board and sometimes they have other new functions that help streamline fishing efficiency. It is important to keep track of these changes in fishing strategies. It was recommended that observers be given opportunity to record on the PS-1 form whether such extra tender craft activity is part of the fishing operation they are currently observing. They should also be encouraged to describe this activity in their trip reports.

## Helicopter servicing other vessels

64. To reduce confusion when observers are on a vessel that carries a helicopter some of the time and doesn't carry it at other times because the helicopter is servicing more than one purse seiner it was recommended to instruct observers to record details of any helicopter that services their vessel, as they would record information for a helicopter that was dedicated to their vessel, but to also indicate the total number of vessels (i.e.: including their own vessel) the helicopter is servicing.

#### Year of revision

65. It was recommended to add the year of revision to page 2 of the PS-1 form for consistency.

#### Radio operator and helicopter mechanic

66. Questions were raised as to whether a dedicated field should be included in the crew list to record the radio operator, once a critical person on all purse seiners due to the importance of radio for communications to the vessel and, from an observer's perspective, the one person onboard that they could generally rely on to speak some English. Other forms of communication, most notably satellite phones, have lessened the demand for radio operators. Nevertheless, knowing that one is onboard and who they are could still benefit. Rather than recommend that a new field is re-added (there once was a dedicated field for radio operator) it was considered that the empty field amongst the dedicated positions, recently made available through the removal of helicopter mechanic, could be used to specifically record the radio operator, if one was onboard. The dedicated field for helicopter mechanic has been removed as that is also a fast disappearing onboard position. Helicopter mechanics are now usually occupied by a pilot-mechanic or a dedicated fleet mechanic.

#### FORM PS-2 • PURSE- SEINE OBSERVER DAILY LOG

## Activity codes for searching and transiting

67. Debate about the appropriate use of the activity codes "2" and "3" for searching and transiting and the appropriate definitions of these two has been heightened because of concerns about the interpretation of the words when it comes to establish whether a vessel is legally fishing or not, which is an important consideration if the "vessel day scheme" becomes a serious management tool. However, the meeting concluded that, as it did not have mandate to define the words, it must wait until differences between "fishing, not fishing and transiting" are clearly defined through regionally agreed management frameworks. Recognising that the activity of moving from object to object, or from area to area, without using fish searching tools such as bird radar, binoculars, sonar, sounder, etc., is intuitively called "transiting" by observers and that it is not so intuitive to call such activity "searching", as is currently required, it was proposed that an alternative code associated with a more intuitive definition (not offered at the meeting) be made available that would separate this "fishing" activity from other forms of transiting in which a vessel might be considered legally "not fishing". But it was considered appropriate to wait until binding definitions in conservation and management measures that are already introduced or to be introduced in the next year or two are better understood before creating new or different observer codes. For now observers will continue to be instructed to call these transiting type activities "searching".

## Activity codes for deploying and retrieving radio buoys

68. The codes 15R and 15D have been introduced earlier to cater specifically for tracking when radio buoys set on a single log or FAD were changed. Hence the protocol for using these codes was that a line recording the activity code 15R must always be followed by a line recording the activity code 15D. It was thought unnecessary to otherwise have specific codes for the retrieving and deployment of radio buoys because if a radio buoy number was recorded on a line with another activity code then the appearance of that number would indicate that a buoy was being deployed or retrieved, depending on the nature of the other activity. However, this has proved to be a confusing protocol for observers and a new recommendation to allow the use of 15R and 15D for any retrieval or deployment of radio buoys was made. This requires a minor modification to PS-2 form instructions and a different approach to observer training.

#### Deploying or retrieving light boats

69. A brief discussion on the usefulness of having activity codes to indicate when light boats are deployed and retrieved or the possibility of having a separate form to cater for light boat activity in recognition of the situation that some vessels operate with separate tender boast that act as light boats came up with no clear recommendation. There was insufficient experience amongst those present at the meeting to make firm recommendation but the issue is noted here in order that further attention is paid to it before the next DCC meeting.

## Payao / FAD / Buoy numbers

70. In modifying PS-2 instructions to advise observers to use 15R and 15D codes whenever buoys were deployed or retrieved it became obvious that further confusion would result for observers that found themselves with several numbers to record (payao or FAD, retrieved buoy, deployed buoy). Further, recognising the high probability that conservation and management measures with respect FAD fishing will be introduced, it is important that FAD identifying information is not confusing. The form PS-2 will now have two columns to separate Payao/FAD numbers from buoy numbers. Suitable training and extra instructions will need to be provided to observers to ensure that these changes are correctly adhered to. This will commence with extra instruction provided in the notification of changes supplement to be included in all purse seine observer workbooks.

## Payaos, FADs and/or buoys from other vessels

71. In discussing FAD and buoy numbers the meeting was alerted to the practice amongst vessels of poaching on other vessels' FADs. Concern that this behaviour will have greater significance if FAD fishing restrictions are introduced the meeting recommended that observers are encouraged to note in the PS-2 comments column whether any activity with FADs (and associated buoys) involved FADs or buoys from other vessels. Appropriate advice to observers will be included in the description of form changes in workbooks and in future training.

#### FORM PS-3 • PURSE-SEINE OBSERVER SET DETAILS

#### Set No.

72. On the PS-2 form observers are asked to record a set number (from a chronological count of the sets from beginning to end of the observer's trip) in the comment section of each activity line that indicates a set was made. It was recommended that a set number be recorded on every PS-3 form (set details form) so that the set number recorded on PS-2 forms can be used as a ready indicator of the PS-3 form that has the details for that set. As every set must have one and one only PS-3 form filled out for it the set number will equate to the page number for the PS-3 forms used through a trip. Hence, rather than create a new field for set numbers on the PS-3 form, it was recommended to have "Set No." in brackets beneath the field already allocated for page number to show that the one number in that field serves both purposes – to indicate the set number and to indicate the PS-3 form page number.

## Was skiff used to anchor net?

73. To cater for the situation where a vessel uses another tender vessel instead of the traditional purse seine net skiff to anchor its net while it proceeds to encircle a school of tuna it was suggested that a field be added to the PS-3 to trap this information. However, the meeting concluded that more research was required, concerning the frequency of such activity within trips, boats and fleets,

to better understand the issue and thus make a useful modification to the form at this stage.

## Cumulative catch adjustments for fish transferred between sets

74. The cumulative catch total calculated on the PS-3 forms is an assessment of the catch currently onboard and not necessarily an assessment of the fish caught during the observer's trip. To ensure that this is well understood it was recommended that an instruction be clearly positioned on the PS-3 form to remind observers to adjust the cumulative total carried from the previous PS-3 to reflect if any fish were brought onboard from, or transferred to, another vessel since the last set.

## Indicate when a vessel's record of catch for a set includes catch from a previous set

75. Occasionally but not rarely vessels will not record a catch from a set in a separate line on their logsheet but will add the quantity of fish caught in one set to the quantity caught from another, recording the entire amount within the record of a single set. Consequently, when one glances at a PS-3 form that has both an observer's estimate of total catch from the set and the vessel's record of total catch from the same set recorded side-by-side it appears as if the observer may have underestimated the catch. To reduce this confusion it was recommended to place an indicator (Y / N box) next to the vessel's record to indicate if the amount recorded reflects catch from only one set or not.

## Assessment of tuna by species and size in catch from a set

- 76. In an effort to obtain information that would better characterise a set with respect to fish size and species so as to address concern about possible biases in the observer sampling data used to estimate species composition of tuna in mixed tuna sets, there was further discussion about how observers report their estimates of catch in a set. Observers were asked in DCC-6 (December 2004) to provide some indication of the tonnage of larger fish in a set and to give an eye estimate of the amount of each tuna species in a set. Observers have also been calculating the species composition of sets using the length measurements of a sample of fish collected from every set. However, the tools given for this dual assessment process have proved clumsy. To simplify and clarify the process it was recommended that observers stop the calculated assessments and that the PS-3 form be modified to provide clearer direction to record eye estimates of the proportions of different tuna species in a set.
- 77. Modifications to the PS-3 form to alleviate ambiguities in the process of assessing the proportion of large tuna in the catch were also recommended.

#### Escape code (ESC)

78. The usefulness and character of the code "ESC" was discussed with respect to its current categorising as a fate code. Overall, the meeting noted concerns that the code does not have quite the same character as other fate codes but believed that the code was necessary, did describe a unique situation with little chance of ambiguity and, although slightly different in character to the other fate codes that provide an indication of the quality of the fish involved, was nevertheless still properly placed as a fate code.

#### FORM PS-4 • PURSE SEINE OBSERVER LENGTH FREQUENCY

## Fraction options

79. It was noted that the greater range of brail fraction options offered to observers for calculating total catch from brail contents has been very successfully received by observers.

## Modification of sampling protocols and modification of PS-4

- 80. Due to concerns about possible biases in observer length frequency data and the potential impact such biases can have on population modelling discussion focused around how the PS-4 form could be changed so that it would trap more information about where the observer's sample was coming from through the sampling and fish landing process. In 2008 there are plans to test alternative sampling protocols for feasibility and robustness. If alternative sampling protocols are adopted it may be necessary to radically redesign the PS-4 form. In the meantime, to better analyse the intensity of observer sampling through a set, in an effort to find possible areas of bias in observer sampling, it was recommended that a count system be incorporated on the present PS-4 form that would show the number of fish drawn from each brail for sampling. The PS-4 form will be modified accordingly. It was considered appropriate not to make any other adjustments to the PS-4 form until trial sampling programmes have been reviewed.
- 81. A more radically redesigned trial PS-4 form that traps information using the brail as the sampling unit instead of the set, also for purpose of identifying areas that sample biases may be introduced, was presented not for approval but to be tested for its appropriateness during the sampling protocol testing described above and wherever other opportunity may arise. It is expected that a well tested new PS-4 form will be presented to the next DCC.

## FORM PS-5 • VESSEL LOGSHEET and WELL LOADING RECONCILIATION

## To cater for vessels with centre wells

82. The current PS-5 form was designed with the assumption that purse seine vessels have two rows of wells running down port and starboard sides and a single across vessel well in the bow. However, some purse seine vessels with centre wells down some or all of their length are now operating in our region. The meeting considered changing the format of the PS-5 form to cater for these new vessels but no solution was proposed and with the PS-5 form now an optional form it was decided to leave changes until a need is more certainly identified.

## Well fill codes

83. A post DCC exercise highlighted the need to capture the origin and the final destination of the fish that were being moved between wells. New well fill codes, which make reference to the GEN-1 action codes, will help capture this essential information.

## TROLL OBSERVER FORMS

## FORM TR-1 • TROLL OBSERVER GENERAL INFORMATION

84. No changes were proposed for this form.

#### FORM TR-2 • TROLL OBSERVER DAILY LOG

85. No changes were proposed for this form.

#### FORM TR-1 • TROLL OBSERVER CATCH DETAILS

86. No changes were proposed for this form.

#### GENERAL OBSERVER FORMS

## FORM GEN-1 • VESSEL AND AIRCRAFT SIGHTINGS AND FISH TRANSFER LOG

## Extra fish transfer fields - supplementary form

87. It was proposed that an addendum be produced for the GEN-1 form to cater effectively for vessels that are allowed to offload fish to other vessels regularly instead returning to port to offload or tranship fish and only transferring fish at sea occasionally, usually for special circumstances. The three lines currently available in the transfer log part of the GEN-1 form are insufficient for regular at sea transfers, which appear to be an increasing activity. It was proposed and accepted that that transfer log section be continued into a supplement to form GEN-1 page. A single supplementary page added to workbooks is minimal added burden to the workbook but should easily cater for the regular at sea transfers amongst the few vessels that are practicing this strategy. The supplement to form GEN-1 was successfully trialled in PNG, where the bulk of such activity takes place. It was noted that the supplementary form may be useful in both purse seine and longline observer workbooks, as the practice of transferring fish is increasing for both gear types.

## Ship's time in place of UTC time

88. In order to bring recording protocols on the GEN-1 form into line with all other observer data collection forms it was agreed that the practice of marking each recorded event with UTC time can be changed to marking it with Ship's time. Previous attempts to do this have not met with agreement because of the compliance nature of the form and the belief that the UTC time offers more precision. Now, with the rapid recent adoption of a common database (TUFMAN) amongst Pacific Island countries as well as within both major Pacific Island fisheries supporting regional organisations the capacity to convert or interpret Ship's date and time accurately from the other information that observers collect is universal. The consequent need for observers to think in only one time frame during their normal operations will reduce confusion and improve accuracy.

## Capacity to handle species transfers from longliners

89. The current GEN-1 form does not cater as well for the species that may be transferred from longliners as it does for the species likely to be transferred from purse seiners. Discussion on the subject did not eventuate in a conclusion other that in the near term we should continue with the forms as they are, using the "MIXED WGT." column to record all species that are transferred. Later, when the Commission has made some decisions with respect to transfers at sea and their requirements for transhipment monitoring forms, there may be a clearer picture of what changes to the GEN-1 form may be useful to address this area of concern. It was noted that the species of concern would normally be captured in subsequent unloadings data.

#### FORM GEN-2 • SPECIES OF SPECIAL INTEREST

## Multi-animal landing on purse seiners - supplementary form

90. Observers have previously been asked to use one GEN-2 form for every animal landed. However, this is impractical when there are several landings in a single fishing event, as can happen occasionally on purse seiners. It was recommended that extra instructions be added to GEN-2 to encourage observers to modify a PS-4 form to record the condition (caught and discarded), length and sex of animals that are landed in such a situation and to note that a modified PS-4 forms has been used for this purpose on the GEN-2 form that is being used to record all the other information on this particular species of special interest (SSI) encounter. However, in practice it proved that this was not a feasible option and an interim supplement to GEN-2 form has been designed to cater for mass landings and will be trialed before the next DCC meeting.

#### Multi-animal interaction with vessel

91. Less information is required from observers for reporting on SSI interactions with a vessel than for SSI landings. Hence it was recommended that the GEN-2 form be modified so that a single form can more appropriately cater for an incident where several SSI of the same species are interacting with the host vessel. Fields need to be added to cater for number of animals, and it must be possible to indicate different conditions if animals are affected differently during an interaction.

## Distance from vessel

92. Observers were previously asked to record the distance from the vessel of a sighted species of special interest in nautical miles but as most sightings are within one nautical mile this forced the observer to think in fractions. It was recommended to ask observers to record distance from vessel in meters in future and to adjust the GEN-2 form accordingly.

## Codes for Olive Ridley turtle, Bryde's whale and baleen whales

93. Correcting the code for Olive Ridley turtle from LEO to LKV and the Leatherback turtle from LTB to DKK was recommended. The English name for the melon- headed whale was edited. An additional code for the Bryde's whale species and a new general code for baleen whales were added. This is in recognition of previous observer reporting of the interaction between Bryde's whale and purse seine fishing vessels and the possibility that other baleen whales may similarly interact with purse seine fishing activity.

#### FORM GEN-3 • VESSEL TRIP COMPLIANCE RECORD

## Re-work of GEN-3 form

94. As per previous DCC meetings there was discussion on the subject of reworking the PS-3 form so that it could provide an indication of quantity of incidents rather than just an indication that a type of incident has occurred during an observer's trip. As in the past the meeting agreed that this is a good idea and should be looked at in preparation for the next DCC meeting. No further recommendation on how to trap quantitative information was made.

#### "X" marks the box

95. A simple direction to observers to be sure to indicate yes or no by placing a bold "X" in either the Yes box or the No box for each incident type was recommended. Other marks used have led to confusion from time to time and this instruction provides another avenue to urge observers to be sure they have checked either one or the other box for ALL incident types.

#### Valid license document onboard

96. One added item to the incident list was asked for and accepted. Observers now must check yes or no to indicate if a valid original license document is onboard. Instructions need to be modified to ensure that observers understand what this means.

## FORM GEN-5 • STOMACH CONTENTS

97. No changes were proposed for this form.

## FORM GEN-6 • POLLUTION REPORT

98. The meeting acknowledged comment that the design of this form could do with changes so that it better caters for the collection of pollution data as it is encountered by observers. However, the meeting acknowledged that the information was primarily collected for use by the South Pacific Regional Environment Programme (SPREP) and as SPREP was not represented at this meeting further recommendation could not be made. It was suggested that observer coordinators work with SPREP to come up with a better design to be considered at future DCC meetings.

#### **DE-BRIEFING FORMS**

99. Debriefing forms will be upgraded to cater for all DCC7 form change recommendations.

#### 5. PORT SAMPLING PROGRAMMES

## 5.1 Review of Port Sampling Forms

## Instruction changes

- 100. The following form instruction changes were proposed to help better clarify what is required for some data fields;
- i) Sampler: When there is only one sampler then that person's name and field staff code should be filled in under the 'sampler' data field and;
- ii) Date of the sample: The date of the sample is always the first date the sample was taken.

#### LONGLINE PORT SAMPLING FORM

## Questions revised

101. The question on the longline port sampling form will be split into two. This was done to emphasis the fact that it is necessary to know not only if all fish were measured, but also if <u>all</u> fish were unloaded. An additional question to capture the ability of port samplers to gain access to the hold (to verify if all fish were unloaded) was added.

## Changes to weight records

102. The instructions were changed to reflect the fact that longline weights should now be recorded to one decimal place and not to the nearest kilogram as was done previously

## New local destination codes added

103. The intention of the export column is to capture the final destination of the unloaded catch. Up to this point the export codes have catered more comprehensively for foreign market destinations. Recently port samplers were increasing voicing the need to record and capture the varied nature of the local market (produce market, cannery, local loining plant etc.) and thus new export (or local) codes have been added to the form instructions.

#### POLE-AND-LINE PORT SAMPLING FORM

104. No changes were proposed for this form.

## PURSE-SEINE PORT SAMPLING FORM

105. No changes were proposed for this form.

#### TROLL VESSEL PORT SAMPLING FORM

106. No changes were proposed for this form.

## 6. UNLOADINGS DATA COLLECTION

#### 6.1 General

## FFA Regional Register Number

107. The meeting was advised that the FFA Regional Register Number is now referred to as the FFA Vessel Register Number, so this change was made on all of the unloadings forms.

#### FFA Type Approved ALC

108. It was agreed that this field, which was adopted during the initial phases of the implementation of VMS in order to monitor the level of implementation, was no longer necessary and could be deleted.

## WCPFC Identification Number (WIN)

109. It was agreed that the WIN should be recorded on the unloadings forms in order to link the vessel to vessel attributes maintained on the WCPFC list of authorised vessels.

## Uses of the DCC Unloading forms and the proposed FFA-version of the WCPFC Unloading form

110. DCC7 did not formally review nor discuss the proposed FFA-version of the WCPFC Transhipment Declaration Form since this form is beyond its mandate. However, in regards to the possible use of the proposed FFA-version of the WCPFC unloading form, and its relationship with the existing DCC Unloading forms, DCC7 noted the following:

- The revised FFA-version of the WCPFC Unloading form is designed to cater for all types of unloading for longline and purse seine vessels with the one form.
- If the proposed FFA-version of the WCPFC Unloading form is adopted for all types of
  unloadings, then there would be no strict need for SPC/FFA members to use the DCC
  unloading forms unless they wanted to capture additional information related to market
  destination for economic studies.
- If the proposed FFA-version of the WCPFC Unloading form is not adopted in some instances, then there are DCC unloading forms available to SPC/FFA members to collect data on unloadings -
  - SPC/FFA Longline Unloading Form
  - SPC/FFA Longline Unloading Destination Form (capturing more detail than the previous form)
  - SPC / FFA Regional Unloading Form For Purse Seine And Pole-And-Line Vessels

#### 6.2 Purse seine and pole-and-line unloading form

## Recording catches of yellowfin and bigeye by small and large size categories

- 111. It was previously decided during DCC7 that the purse seine logsheet be modified to allow for the recording of yellowfin and bigeye catches by size category, in anticipation that the analysis of species composition data collected by observers and port samplers may, in the future, be conducted by stratifying the data into large and small size categories (i.e., greater or less than 20 lbs or 9 kg or 80 cm) to deal with the problem of selection bias.
- 112. It was therefore decided that the DCC purse seine unloading form be modified to allow the reporting of recording of yellowfin and bigeye unloaded catch by size category.

## 6.3 Longline Unloading form

113. No changes were proposed for the Longline Unloading form, other than the general changes discussed above.

## 6.4 Longline Unloading Destination Form

114. DCC7 modified the existing "SPC/FFA Longline Unloading Destination Form" to support the collection of unloadings information from distant-water longline vessels transhipping their (frozen) catch at sea. There were no DCC forms available to cater for this type of unloading prior to DCC7.

#### Location of Unloading

115. The field for "PORT NAME" was changed to "LOCATION" to allow for the entry of a latitude/longitude position when transhipment of sea takes place; otherwise, the PORT where the unloading took place is entered in this field.

## A block for the CARRIER VESSEL details

116. A block of fields, used to record the Carrier Name and other attributes used to identify the carrier, was added to this form to support the collection of information in instances of vessel-to-vessel transhipment.

#### Fresh or Frozen catch

117. A new column was added to the detail block to support the recording of "Fresh" or "Frozen" species unloadings. This information will provide an indication of the vessel's style of fishing and storage of the catch, as well as the destination market.

#### **Processed State**

118. A new column was added to the detail block to support the recording of a code referring to the "Processed State" by species. This information will provide a means for raising the unloaded catch to whole weight, which is required for the determination of annual catch estimates.

## Full or Partial Unloading

119. A new field indicating whether a Full or Partial unloading had occurred, was added to this form.

#### 7. OTHER FORMS

## 7.1 Gamefishing Forms

120. No changes to the gamefishing forms were considered.

## 7.2 Fishing Trip and Port Visit Log

#### Transhippment at Sea.

121. The National Tuna Data Coordinator from Palau, a country which has fully implemented this vessel activity form, requested that an additional code, which will allow fishers to record any at-sea transhippments, be added. As transhippment at sea is currently allowed within the Palauan EEZ and the practise is becoming more common around the region the 2007 edition of the form will include this new code as requested.

#### 7.3 Logsheets developed by other agencies from DCC logsheets

122. It was noted that certain DCC forms had been adapted by a non-SPC/FFA member country (which is a member of the WCPFC), with minor modifications to suit their domestic fishery. The Philippines has modified the SPC/FFA Purse-Seine logsheet and the SPC/FFA Handline logsheet to better cater for the collection of catch of neritic tuna species which are prevalent in their domestic fisheries. They had also modified the SPC/FFA Purse-Seine and Pole-and-Line Unloading Form to capture information in unloadings to specific canneries. The title of each form has been modified to ensure it is a distinct form to the DCC forms.

#### 7.4 MCS forms

- 123. Mr Scott presented a series of MCS-related forms that had been recently developed by FFA. He noted that FFA intends to encourage their member countries to adopt the standard forms, which the DCC supported, although the group did not review or comment on these forms, since it was felt to be beyond to their mandate.
- 124. FFA intends to adopt the PNG Port Inspection Form as the regional standard.
- 125. It was noted that the FFA Vessel Register and VMS Certification Forms had recently been combined into one, efficient form, since it is compulsory to hold both a Registration and VMS certificate.

#### 7.5 WCPFC FAD form

126. Recent concern about bigeye tuna stocks have brought increased attention to the role that FADs have in enhancing bigeye catch rates. This has led to greater interest in FAD design and FAD use. To cater for this, and in anticipation of possible conservation and management measures that may focus on FAD fishing, The WCPFC Observer Manager has been adapting a FAD form based on one that is already used by IATTC observers. The meeting agreed that once fully developed this form will be trialled by Pacific Island observers and anticipate that a tried and tested new form will be presented at the next DCC meeting for approval.

#### 8. COOPERATION BETWEEN SPC AND FFA ON DATA-RELATED ISSUES

## 8.1 Review of arrangements for the exchange of data between SPC and FFA

- 127. The meeting was referred to DCC Document 17 Current status of the exchange of Tuna Fishery Data between OFP-SPC and FFA. It was noted that exchange agreements between the two organisations go back to the mid 1980s, but there has been requests for new categories of data from both organisations. In recent years, attempts to send high volume data over the internet have been hindered by interruptions and slow bandwidth and data provisions by CD or DVD remain the most efficient way to get data from one organisation to the other.
- 128. In regards to future database development within the two organisations, it was suggested that both organisations would benefit from standardised database structures, for databases that are common to the two organisations. In particular, the development of an Observer Module for the

TUFMAN database system presents an ideal opportunity for SPC and FFA to collaborate and produce a standard database structure for observer data. It was noted, however, that there are certain sub-components of observer system which are of exclusive interest to one or the other organisation, and that SPC and FFA should therefore consider standardisation of the "core" observer data only, while respective organisations will remain free to develop the structure of database tables that are considered to be of exclusive relevance to one (or the other) of the organisations only.

129. With this concept in mind, SPC and FFA will liaise with respect to the regional observer data over the coming year or two, and attempt to develop a protocol for maintaining a "core" standardised structure for their common databases. It was suggested that an open source software product called "GPL V2 with class-pass exceptions" might be a suitable tool to manage the development of a shared database system.

## 8.2 Facilitation by SPC and FFA of data collection by fishing companies and agent

- 130. It was noted that SPC and FFA should consider developing resource materials to assist member countries implement the DCC forms. The representative from PNG mentioned that they will need to enforce the collection of unloadings data in the coming year, and the availability of PowerPoint presentations that explain the purpose of the information to be collected and how to complete the form would make their job of implementing the form much easier. It was also suggested that resource materials, specifically designed to facilitation the implementation of DCC forms could be made available on SPC and FFA web sites.
- 131. SPC already have some material for certain forms and will look at expanding on this in the coming year.

## 9. OTHER BUSINESS

## 9.1 Other matters

132. Prior to the close of the meeting, a demonstration of the TUFMAN database system, developed by the OFP, was provided to meeting participants.

#### 9.2 Next meeting of the DCC

133. It was recommend that, in keeping with the tradition of the meeting, the next DCC should take place after two years, unless any pressing issues, most probably outputs from the WCPFC, warranted an earlier scheduling of the meeting.

#### 10. CLOSING

134. The meeting closed to a vigorous round of applause.

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- Oceanic Fisheries Programme. 2001. A Review of Turtle By-catch in the Western and Central Pacific Ocean Tuna Fisheries: a Report Prepared for the South Pacific Regional Environment Programme by the Oceanic Fisheries Programme, Secretariat of the Pacific Community. South Pacific Regional Environment Programme, Apia, Samoa. 26 pp.

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## APPENDIX 1. AGENDA

#### 1. PRELIMINARIES

- 1.1 Appointment of chairman and rapporteurs
- 1.2 Adoption of the agenda

## 2. REGIONAL DEVELOPMENTS

- 2.1 Status of the Regional Observer Programme
- 2.2 CMM 2006–05, Conservation and Management Measure for Sharks in the Western and Central Pacific Ocean
- 2.3 Status of Conservation and Management Measure for Transhipment Monitoring
- 2.4 Status of Conservation and Management Measure to reduce juvenile bigeye and yellowfin mortalities on FADs

#### 3. REVIEW OF CATCH AND EFFORT LOGSHEETS

- 3.1 General
- 3.2 Longline logsheet
- 3.3 Shark longline logsheet
- 3.4 Pole-and-line logsheet
- 3.5 Purse seine logsheet
- 3.6 Handline logsheet
- 3.7 Interim troll logsheet
- 3.8 Longline logbook
- 3.9 FAD logsheets
- 3.10 Implementation of DCC logsheets

#### 4. OBSERVER PROGRAMMES

- 4.1 Status of observer programmes
- 4.2 Review of observer forms

## 5. PORT SAMPLING PROGRAMMES

- 5.1 Status of port sampling programmes
- 5.2 Review of port sampling forms

## 6. UNLOADINGS DATA COLLECTION

- 6.1 Purse seine unloading forms
- 6.2 Longline unloading forms

## 7. OTHER FORMS

- 7.1 Gamefishing forms
- 7.2 Fishing Trip and Port Visit Log
- 7.3 Logsheets developed by other agencies from DCC logsheets
- 7.4 MCS forms
- 8. COOPERATION BETWEEN SPC AND FFA ON DATA-RELATED ISSUES

- 8.1 Review of arrangements for the exchange of data between SPC and FFA
- 8.2 Facilitation by SPC and FFA of data collection by fishing companies and agents
- 9. OTHER BUSINESS
- 9.1 Next meeting of the DCC
- 10. CLOSING

## APPENDIX 2. LIST OF DOCUMENTS

1	Provisional Agenda
2	Provision List of Participants
3	Report of the Sixth Meeting of the Tuna Fishery Data Collection Committee (DCC6)
4	Interim Troll Logsheet
5	ISG-WP-4 Comments of ROP Data Standards
6	WCPFC Conservation and Management Measure 2006–05 [Sharks]
7	WCPFC-TCC#-2007-08 [Transhipment Draft CMM]
8	Transhipment Form Review
9	Draft Minimum Data Standards for WCPFC Regional Observer Programme
10	Commentary on Minimum Data Standards for WCPFC Regional Observer Programme
11	Status of Logsheet Implementation
12	Draft Longline Carrier Unloading Form
13	Draft Artisanal FAD Logsheet
14	Pacific Operational Analysis Spreadsheet
15	Draft Purse-Seine Observer FAD Form
16	Report on the Trial Longline Logbook
17	Current status of the exchange of tuna fishery data between the OFP and FFA
18	Data Collection From Paper to Digital

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# APPENDIX 4. STATUS OF IMPLEMENTATION OF SOUTH PACIFIC REGIONAL LOGSHEETS

#### INTRODUCTION

In December 1995, the Forum Fisheries Agency (FFA) and the Oceanic Fisheries Programme (OFP) of the Secretariat of the Pacific Community (SPC) established a committee to review tuna fisheries data collection forms used throughout the region.

The main objective of the committee is to ensure the standardisation of information collected throughout the region so that any analytical work (e.g. stock assessment) would not be compromised by missing information, as a result of differences in data collection forms.

Regional standardised catch logsheets forms were subsequently established as a result of the first meeting of the tuna fisheries data collection forms committee in January 1996. Subsequent meetings [December 1996, December 1998 and December 2000] resulted in minor revisions to the forms; the meeting in December 2002 resulted in <u>no</u> changes to the forms, but the meeting in November 2004 result in further minor revisions. Since this time, the committee has encouraged member countries to introduce the regional standardised forms for their domestic fisheries and in access agreements with foreign fishing nations.

There had been many reasons for standardising data collection forms; for example, there was a significant increase in the number of drifting-FAD sets in the western and central Pacific purse seine fishery during the late 1990s, and old logsheet forms did not have the provision to distinguish drifting-FAD sets, making comparisons between setting strategies problematic.

This paper provides an update of the implementation of these forms throughout the region, and suggests where further work is required.

#### 2. IMPLEMENTATION OF LOGSHEETS

Table 1 describes the implementation status by member country, gear and vessel nationality, as at November 2007. There are two columns indicating the use of the DCC logsheets as at 2004 and 2007 (now), respectively, which provide an indication of progress in implementation since the last DCC meeting. There is also a column indicating the version of form that has been provided recently by each fleet.

There has been further progress in the implementation of the standard logsheets, with most fleets now using one version or another of the regional standard logsheet.

However, no fishing fleet has yet provided data recorded on the 2004-version of the regional standard logsheets. Ensuring that the latest versions of logsheets are implemented throughout the regional tuna fisheries will be the main challenge for the DCC group to address in the coming years.

#### 3. RECOMMENDATIONS

Both FFA and SPC should continue to encourage member countries to make every effort to introduce the latest versions of the regional standardized forms for domestic and foreign fishing fleets that yet to do so. The following are considered the most important outstanding:

• At this stage, there have not been any logsheets submitted using the latest version (December 2004), so Member countries should therefore be encouraged to introduce the <u>latest version</u> of the logsheet to <u>all</u> fleets during annual bilateral access negotiations and review of their domestic fisheries.

• The Japanese fleets have adopted the regional standardized logsheets in FSM and PNG, but it still does not appear to have been as successful in other member countries. At this stage, Japanese fleets operate in FSM, Kiribati, Marshall Islands, Nauru, Palau, Solomon Islands and Tuvalu.

To formalize the introduction of new versions of the standardized logsheets, it is recommended that the following areas be targeted –

- (i) A paper and/or presentation requesting member countries to adopt the <u>latest version</u> of the regional standard logsheets (with an explanation of the latest changes) should be considered for appropriate regional fora (for example, the Forum Fisheries Committee–FFC, and the SPC Heads of Fisheries Meeting–HOF),
- (ii) The <u>latest versions</u> of the regional standardized logsheet forms should be included in National Tuna Management Plans in the future (with provision for revision when updates to these forms occur),
- (iii) The <u>latest versions</u> of the regional standardized logsheet forms should be included in any legal (or otherwise relevant) documentation for the annual licensing of <u>foreign</u> and <u>domestic</u> fleets by each country, and
- (iv) Procedures for ensuring that, at least, (ii) and (iii) (above) are regularly reviewed and undertaken should be included in National Tuna Fishery Data Collection, Management and Dissemination PROCEDURES DOCUMENT.

In order to better track the implementation of the regional standard logsheet in the future, SPC will also consider storing the **version** of the logsheet at the vessel trip level in the regional catch and effort logsheet database.

SPC/FFA MEMBER OR ARRANGEMENT	GEAR	FLEET	DCC LOGSHEETS USED ? (2004)	DCC LOGSHEETS USED ? (2007)	VERSION OF DCC form used (2007)	STATUS OF IMPLEMENTATION OF SPC/FFA REGIONAL LOGSHEETS
American Samoa	Longline	Taiwan (DWFN)	Partial	Yes	1996	Very few non-standard logsheets received
		Mainland China	Partial	Yes	1996	Very few non-standard logsheets received
		Cook Islands	Yes	Yes	1996	
		Vanuatu	Yes	Yes	1996	
Cook Islands	Longline	Locally-based fleets	Yes	Yes	1996	Local longline fleets are using Regional longline logsheet
FSM Arrangement	Purse seine	Vessels operating under the FSM Arrangement				
		FSM			1996 and 2000	Introduced during 1996. All fleets use the regional standard logsheets.
		Marshall Islands	Yes	Yes		
		Papua New Guinea	Yes	Yes		
		Solomon Islands	Yes	Yes		
		Kiribati	Yes	Yes		
		Vanuatu	Yes	Yes		
			Yes	Yes		
Fiji	Longline	Fiji (domestic fleet) + locally- based joint-venture vessels	Yes	Yes	1996	All vessels now use the regional longline logsheet.
		Mainland China (DWFN)	Partial	Yes	1996	Most vessels from this fleet provide data on regional standard (as per Pago Pago)
		Taiwan (DWFN)	Partial	Yes	1996	Most vessels from this fleet provide data on regional standard (as per Pago Pago)
	Pole-and-line	Fiji (domestic fleet)	(No)	(No)	=	This fleet use a customised form requiring baiting locations; No indication of recent fishing activities.
Federated States of Micronesia	Longline	Mainland China	Yes	Yes	1996	This fleet now uses regional logsheets, albeit a slightly modified version.
		Domestic FSM fleet	Partial	Yes	1996	
		Guam-based US fleet	Yes	(Inactive)		This fleet used regional logsheets, but is now inactive.
		Japanese longline	Yes	Yes	1996	This fleet now uses regional logsheets. This is a version that the Japanese companies have provided. (One or two non-standard logsheets used).
		Taiwanese longline	Yes	Yes	1996	This fleet now uses regional logsheets (translated).
	Pole-and-line	Japanese pole-and-line	Yes	Yes	1996	This fleet now uses regional logsheets
	Purse seine	Domestic fleet (Yap Fishing Corporation)	Yes	Yes	1996 and 2000	Introduced (see FSM Arrangement)
		Domestic fleet (CFC)	Yes	Yes	1996 and 2000	Introduced (see FSM Arrangement)
		Japanese purse seine	Yes	Yes	1996	This fleet now uses regional logsheets.
		Korean purse seine	Yes	Yes	1996 and 2000	This fleet now uses the regional logsheets.
						(1996 and 2000 version forms used)
		Taiwanese purse seine	Yes	Yes	1996 and 2000	Regional logsheet translated and distributed by the Taiwanese Deep-Sea Tuna Boat-owners Association
						(1996 and 2000 version forms used)

SPC/FFA MEMBER OR ARRANGEMENT	GEAR	FLEET	DCC LOGSHEETS USED ? (2004)	DCC LOGSHEETS USED ? (2007)	VERSION OF DCC form used (2007)	STATUS OF IMPLEMENTATION
Kiribati	Longline	Japan	No	No		No indication of introduction of new forms
		Korea	Partial	Yes	1996	In the last year, some vessels have been using
		Taiwan	-	Partial	1996	
		Vanuatu	-	Partial	1996	
		Korea	Yes	Yes	1996 and 2000	Introduced at regional level.
						(1996 and 2000 version forms used)
		New Zealand	Partial	Yes	2000	
		Spain	Yes	Yes	1996 and 2000	This fleet uses the regional standard logshed
		Taiwan	Yes	Yes	1996 and 2000	Regional logsheet translated and distributed
						(1996 and 2000 version forms used)
Marshall Islands	Longline	Mainland China	Yes	Yes	1996	This fleet uses the regional standardized for
		Japan	Partial	Partial	1996	Very few standard forms coming through, n
		Domestic fleet			1996	Fleet not active as at November 1996
		Taiwan	Yes	Yes	1996	This fleet uses the regional standardized for
		Locally-based US fleet			1996	No US vessels active as at November 1996
	Pole-and-line	Japan	No	No		No indication of introduction of new forms
	Purse seine	Japan	Partial	Partial	1996 and 2000	Most are non-standard forms
		Korea	Yes	Yes	1996 and 2000	Introduced at regional level.
						(1996 and 2000 version forms used)
		New Zealand	Partial	Yes	2000	
		Taiwan	Yes	Yes	1996 and 2000	Regional logsheet translated and distributed
						(1996 and 2000 version forms used)

SPC/FFA MEMBER OR ARRANGEMENT	GEAR	FLEET	DCC LOGSHEETS USED ? (2004)	DCC LOGSHEETS USED ? (2007)	VERSION OF DCC form used (2007)	STATUS OF IMPLEMENTATION O
Nauru	Pole-and-Line	Japan	No	No		No indication of introduction of new forms
	Purse Seine	Japan	Partial	Partial	1996 and 2000	Most are non-standard forms. There are a few (1996 and 2000 version forms used)
		Korea	Yes	Yes	1996 and 2000	Introduced at regional level (1996 and 2000 version forms used)
		Taiwan	Yes	Yes	1996 and 2000	Regional logsheet translated and distributed by (1996 and 2000 version forms used)
New Caledonia	Longline	Japan	No	No	-	No activity in recent years
		Locally-based fleet	Yes	Yes	1996	French translation of regional logsheet provide
Nuie	Longline	French Polynesia	-	Yes	1996	Recently established fishing in Niue
		Niue	-	Yes	1996	Recently established fishing in Niue
		Taiwan	No	No	-	No indication of introduction of new forms. N
French Polynesia	Longline	Locally-based fleet	Yes	Yes	1996	French translation of the regional standard use
		Korea	No	No	_	No indication of introduction of new forms No
Papua New Guinea	Longline	Japan	No	No	-	No recent fishing activity
		Locally-based fleet	Yes	Yes	1996	Introduced for local longline fleet
		Taiwan	Yes	Yes	1996	Regional forms used by this fleet
	Purse seine	Korea	Yes	Yes	1996 and 2000	Introduced at regional level. (1996 and 2000 version forms used)
		Japan	-	Yes	2000	Japanese fishing fleet commenced operations although there are a few non-standard forms.
		PNG (domestic)	Yes	Yes	1996 and 2000	All companies now using regional standard (1996 and 2000 version forms used)
		Philippines	Yes	Yes	1996 and 2000	This fleet uses the regional standard logsheet.
		Taiwan	Yes	Yes	1996 and 2000	Regional logsheet translated and distributed by Association.
						(1996 and 2000 version forms used)

SPC/FFA MEMBER OR ARRANGEMENT	GEAR	FLEET	DCC LOGSHEETS USED ? (2004)	DCC LOGSHEETS USED ? (2007)	VERSION OF DCC form used (2007)	STATUS OF IMPLEMENTATION OF SPC/FFA REGIONAL LOGSHEETS
Palau	Longline	Mainland China	Yes	Yes	1996	Regional standard used by this fleet
		Japan	Yes	Yes	1996	Regional standard now used by this fleet
		Taiwan	Yes	Yes	1996	Regional standard used by this fleet
		Guam-based US fleet	No	-	1996	No recent activity.
	Pole-and-line	Japan	No	No	=	No indication of introduction of new forms (No recent activity)
	Purse seine	Japan	Partial	Partial	1996 and 2000	Only a few trips received recently have been on regional standard forms (the rest on non-
Samoa	Longline	Locally-based fleet	No	Partial	1996	A local form is used by the fleet, but a few of the larger vessels offloading in Pago use the regional standard form.
		Taiwan	No	No	=	No indication of introduction of new forms. No recent activity by this fleet in Samoa
Solomon Islands		Locally-based fleet	No	Yes	1996	
		Taiwan	No	Yes	1996	
		Vanuatu	_	Yes	1996	
	Pole-and-line	Japan	No	No	-	No indication of introduction of new forms . No recent activity.
		Locally-based fleet + Kiribati	(No)	(No)	-	(Data processed by Solomon Islands Fisheries Division- MFMR). They will request the
	Purse seine	Korea	Yes	Yes	1996 and 2000	Introduced at regional level.
						(1996 and 2000 version forms used)
		Japan	No	Partial	1996 and 2000	Only a few logsheets provided are the regional standard.
		New Zealand	_	Yes	1996 and 2000	
		Phillippines	_	_	_	No recent activity.
		Domestic fleet	Yes	Yes	1996 and 2000	Introduced (see FSM Arrangement)
		Taiwan	Yes	Yes	1996 and 2000	Regional logsheet translated and used by Taiwanese PS fleet.
						(1996 and 2000 version forms used)
		Vanuatu	-	Yes	1996 and 2000	
Tonga	Longline	Domestic fleet	Yes	Yes	1996	Regional logsheet is used by this fleet.
Tuvalu	Longline	Japan	No	No		No indication of introduction of new forms. No recent activity by this fleet.
		Korea	Partial	Partial	1996	One standardized logsheet received from this fleet recently (the remainder are non-standard forms).
	Purse seine	Japan	Partial	Partial	1996 and 2000	An improvement on the provision of the regional standard logsheet (about 50% of logsheets), but still some logsheets are non-standard.
		Korea	Yes	Yes	1996 and 2000	Standard form used throughout
						(1996 and 2000 version forms used)
		New Zealand	Yes	Yes	1996 and 2000	Standard form provided by vessels fishing in Tuvalu waters.
		Vanuatu	-	Yes	1996 and 2000	
US Multilateral Treaty	Purse seine	US fleet	Yes	Yes	2000	Latest version introduced in June, 2002. We only have about 50% of the 2006 logsheets at this stage.  (2000 version forms used)
Vanuatu	Longline	Fiji	Yes	Yes	1996	Regional logsheet is now used by this fleet
		Taiwan	(No)	(No)	=	No indication of introduction of new forms. Very few regional standard forms received.
		Vanuatu	Yes	Yes	1996	Domestic fleet based in Fiji and the distant-water fleet use the regional logsheet

## APPENDIX 6. SPC/FFA REGIONAL LOGSHEETS AND LOGBOOK

- 1. Longline Logsheet
- 2. Shark Longline Logsheet
- 3. Pole-and-Line Logsheet
- 4. Purse-Seine Logsheet
- 5. Handline Logsheet
- 6. Troll Logsheet
- 7. Longline Logbook
- 8. FAD Fishing Logsheet

## SPC/FFA REGIONAL LONGLINE LOGSHEET

PAGE	OF

NAME	OF VESS	EL									FISHING PERM	/IIT OR LI	CENCE N	JMBER(S)													YEAR			
NAME	OF FISHII	NG COMP	ANY			FFA	VESSEL R	EGISTER NU	MBER		NAME OF AGE	NT IN PC	RT OF UN	ILOADING							PRIMARY	TARGET	SPECIES				TRIP NUM	BER THIS YEAR		
COUNT	RY OF R	EGISTRAT	ION			WCF	PFC IDENTI	FICATION NU	JMBER												PORT OF	DEPART	URE				DATE ANI	D TIME OF DEPARTURE		
REGIS	RATION	NUMBER	IN COUNTRY OF	REGIS	STRATION	INT	ERNATIONA	AL RADIO CA	LLSIGN		• ALL DA			IES MUST			MT				PLACE OF	UNLOAD	DING				DATE ANI	D TIME OF ARRIVAL IN P	ORT	
																	R PARTIA	L UNI	LOADING											
			01:00 UTC	OR	SET POSITIO	N					ALBACORE			BIGEYE			YELLOWFIN	1	SHARK	S	TRIPED	Е	BLUE	BL	.ACK	SWC	RDFISH	OTHER SI	PECIES	
MONTH	DAY	ACTIVITY		N	LONGITUDE	Е	SET START	NUMBER OF	HOOKS BETWEEN	l No	140	l No.	N-	100	NI-	NI-	1/0	NI-	No. N	_	MARLIN	1	ARLIN	_	RLIN	NI-	1/0		L	140
		OODL	DDMM	S	DDDMM	W	TIME	HOOKS		No RET	KG RET	No DISC	No RET	KG RET	No DISC	No RET	KG RET	No DISC	No No RET DIS			No RET	KG RET	No RET	KG RET	No RET	KG RET	NAME	No RET	KG RET
ACTIV		DES						GE TOTAL																						
1 A		SEA BU	T NOT FISHED	AND	NOT IN TRANS	SIT	TF	RIP TOTAL																						
	ANSIT	- PLEA	SE SPECIFY				NAME O	F CAPTAIN	I									SIGN	ATURE OF	CAPTA	IN							DATE		
			SPECIFY															1										1		

#### SPC / FFA REGIONAL LONGLINE LOGSHEET INSTRUCTIONS

#### **Block One: Vessel Identification and Trip Information**

<u>Country of Registration and Registration Number in Country of Registration</u>: Print the name of the country in which the vessel is registered (e.g. "Japan") and the registration number issued by the country in which the vessel is registered (e.g. "ME1-808").

<u>FFA Vessel Register Number</u>: Print the number issued by the Forum Fisheries Agency for inclusion of the vessel on the FFA Regional Register (e.g. "12345"). <u>WCPFC Identification Number</u>: Print the number issued by the Flag State.

<u>Fishing Permit or Licence Number(s)</u>: If the vessel fished under one or more bilateral access agreements, then print the fishing permit number issued by each of the coastal states in whose waters the vessel fished during the trip. If the vessel fished under a multilateral treaty, then print the fishing permit number issued to the vessel under the multilateral treaty. If the vessel is registered in the coastal state, then print the fishing licence number issued by the coastal state.

<u>Name of Agent in Port of Unloading</u>: Print the name of the agency or agencies which represented the vessel in the port or ports in which the vessel unloaded the catch recorded on the logsheet. In case of transhipment at sea, print the name of the carrier and destination of the unloaded catch.

<u>Year</u> and <u>Trip Number This Year</u>: Print the year in which the vessel departed from port at the start of the trip and the number of trips the vessel has taken this year (including this trip). The start of a trip is defined to occur when a vessel transits to a fishing area after unloading part or all of the catch, regardless of whether the unloading took place in port or at sea. The end of a trip is defined to occur when a vessel unloads part or all of the catch, regardless of whether the unloading took place in port or at sea.

Place of Unloading: Specify the name of the port where the catch was unloaded, or the GPS position where unloading occurs at sea.

Primary Target species: Print the primary target species for this trip.

#### **Block Two: Catches**

Complete at least one line of Block Two for each set that was made during the trip. If no sets were made during the day, then provide the Month, Day, Activity Code, and the 01:00 UTC Position. If necessary, use more than one line to record the catch of other species.

<u>Month</u> and <u>Day</u>: The day should correspond to the day on which the crew started the set; record the day number and not the day of the week.

<u>Activity Code</u>: Use Activity Code 1 ('A set') if the line in Block Two corresponds to a set of the longline gear in the water. Use Activity Code 2 ('A day at sea but not fished and not in transit – please specify') if the vessel was at sea, but the longline gear was not placed in the water that day and the vessel was **not** in transit, please describe the activity on the line that refers to that day. Use Activity Code 3 ('Transit') if no sets were made and the vessel spent most of the day in transit. Use Activity Code 4 ('In port - please specify') if no sets were made and the vessel spent most of the day in port. If no code exists, please describe the activity on the form.

<u>01:00 UTC or Set Position</u>: If a set was made, print the position of the start of the set. If no sets were made during the day, print the position at 01:00 UTC. The position should be recorded to the nearest minute of latitude and longitude (e.g. "08–22 N" and "165–45 E").

Set Start Time: Print the UTC time when the crew started placing the longline gear in the water.

Number of Hooks: Print the total number of hooks that were set.

Hooks between Floats: Print the number of hooks used between successive two floats.

<u>Albacore</u>, <u>Bigeye</u> and <u>Yellowfin</u>: Print number of fish caught and retained under *No RET*. Print the total amount of the whole weights for albacore, and the gilled-and-gutted weights for bigeye and yellowfin, of all fish that were caught and retained, in kilograms, under *KG RET*. Print number of fish that were discarded under *No DISC*.

<u>Shark</u>: Print the number of fish caught and retained, **excluding** fish from which only the fins were retained and not the body, under *NO RET*. Print the number of fish discarded, **including** fish from which only the fins were retained and not the body, under *No DISC*.

<u>Striped Marlin</u>, <u>Blue Marlin</u>, and <u>Swordfish</u>: Print number of fish caught and retained under *No RET*. Print total amount of the processed weights of all fish that were caught and retained, in kilograms, under *KG RET*.

<u>Other Species</u>: Print the full name of the species under *NAME*. Print the number of fish caught and retained under *No RET*. Print the total amount of the processed weights of all fish that were caught and retained, in kilograms, under *KG RET*. When more than one 'other' species occurs in a set, use additional lines on the logsheet. If a species of special interest (such as a marine turtle, marine mammal or sea bird) is caught, then record the capture on a separate line.

<u>Vessels Sighted</u>: If other fishing vessels are sighted, write the name of the vessel, and other identifiers, such as the vessel type, on one line of the logsheet.

Whale Predation: If any fish were predated by whales, write the number of fish predated by whales on one line of the logsheet.

#### SPC / FFA REGIONAL SHARK LONGLINE LOGSHEET

PAGE	OF

NAME OF VE	ME OF VESSEL								-				ENCE NUM						0.0.		-					YEAR	—	—	TRIP NUI	MBER THIS	YEAR
NAME OF FI	SHING COMPANY					FFA VE	SSEL REG	SISTER NU	JMBER	LENGTH	OF FLOA	T LINE	LENGTH	OF BRAN	ICHLINE	MAINLINE			BRANCH			PORT OF	DEPARTI	JRE		DATE AN	D TIME O	F DEPAR	TURE		
COUNTRY C	F REGISTRATION					WCPFC	IDENTIFIC	CATION N	UMBER								AMENT? (		MONOFIL	LAMENT? (	Y/N)	PLACE O	F UNLOAD	DING		DATE AN	D TIME O	F ARRIVA	AL IN PORT		
REGISTRAT	ON NUMBER IN COUNTRY	OF REG	ISTRATIC	N		INTERN	ATIONAL	RADIO CA	ALLSIGN							T BE U' DGRAM		ИΤ				PRIMARY	/ TARGET	SPECIES		NUMBER	OF HOOK	S BETWE	EN FLOAT	s	
										• 5	START	ΓAΝ	EW LC	GSH	EET AF	TER F	ULL OF	R PAR	TIAL U	NLOAD	ING										
		MONTH	DAY	ACTIVITY	MONTH	DAY	ACTIVITY	MONTH	DAY	ACTIVITY	MONTH	DAY	ACTIVITY	MONTH	DAY	ACTIVITY	MONTH	DAY	ACTIVITY	MONTH	DAY	ACTIVITY	MONTH	DAY	ACTIVITY	MONTH	DAY	ACTIVITY	MONTH	DAY	ACTIVITY
START SET	LATITUDE			N/S			N/S			N/S			N/S			N/S			N/S			N/S			N/S			N/S	$\vdash$		N/S
POSITION	LONGITUDE			E/W			E/W			E/W			E/W			E/W			E/W			E/W			E/W			E/W			E/W
START HAUL	LATITUDE			N/S			N/S			N/S			N/S			N/S			N/S			N/S			N/S			N/S			N/S
POSITION	LONGITUDE			E/W			E/W			E/W			E/W			E/W			E/W			E/W			E/W			E/W			E/W
	SET START TIME																														
	HAUL START TIME																														
	No. OF HOOKS SET																														
	CATCH INFORMATION	NO RET	KG RET	NO.	NO RET	KG RET	NO. DISC	NO RET	KG RET	NO.	NO RET	KG RET	NO.	NO RET	KG RET	NO. DISC	NO RET	KG RET	NO. DISC	NO RET	KG RET	NO. DISC									
	SILKY SHARKS																														
ပ္သ	GREY REEF SHARK																														
	OCEANIC WHITE TIP																													<del></del>	
IЩ	SILVERTIP SHARK																														
SPECIES	BLACK TIP SHARK																														
	HAMMER HEAD SHARK																														
5	BLUE SHARK																											l		 	
TARGET	BLACK TIP REEF SHARK																											 		!	
	TIGER SHARK																														
	GALAPAGOS SHARK																														
	OTHER SHARKS																														
	SWORD FISH																												$\vdash \vdash$		
ES	BLACK MARLIN																														
SPECIES	BLUE MARLIN																														
	STRIPED MARLIN																														
<u> </u>	SAIL FISH																												$\vdash$		
ᅵᅟᅟᅟᅟᅟᅟᅟ	ALBACORE TUNA																										$\vdash$	<u> </u>			
	YELLOWFIN TUNA																											<u> </u>			
вусатсн	BIGEYE TUNA																											 	<u> </u>	<u> </u>	
<u>×</u>																												ļ		ļ	
	OTHER FISH																											ļ			
	IVITY CODES A SET										NAME	OF CA	PTAIN				SIGNAT	TURE OF	CAPTAI	N								DATE			
2	A DAY AT SEA BUT NO TRANSIT	OT FISH	IED AND	NOT IN	TRANSI	T - PLE	ASE SPE	CIFY																				l			
3 4	IN PORT - PLEASE SF	PECIFY									1																	i			

#### SPC / FFA REGIONAL SHARK LONGLINE LOGSHEET INSTRUCTIONS

#### **Block One: Vessel Identification and Trip Information**

<u>Country of Registration and Registration Number in Country of Registration</u>: Print the name of the country in which the vessel is registered (e.g. "Japan") and the registration number issued by the country in which the vessel is registered (e.g. "ME1-808").

<u>FFA Vessel Register Number</u>: Print the number issued by the Forum Fisheries Agency for inclusion of the vessel on the FFA Vessel Register (e.g. "12345"). <u>WCPFC Identification Number</u>: Print the number issued by the Flag State.

*Fishing Permit or Licence Number(s)*: If the vessel fished under one or more bilateral access agreements, then print the fishing permit number issued by each of the coastal states in whose waters the vessel fished during the trip. If the vessel fished under a multilateral treaty, then print the fishing permit number issued to the vessel under the multilateral treaty. If the vessel is registered in the coastal state, then print the fishing licence number issued by the coastal state.

<u>Name of Agent in Port of Unloading</u>: Print the name of the agency or agencies which represented the vessel in the port or ports in which the vessel unloaded the catch recorded on the logsheet. In case of transhipment at sea, print the name of the carrier and destination of the unloaded catch.

<u>Year</u> and <u>Trip Number This Year</u>: Print the year in which the vessel departed from port at the start of the trip and the number of trips the vessel has taken this year (including this trip). The start of a trip is defined to occur when a vessel transits to a fishing area after unloading part or all of the catch, regardless of whether the unloading took place in port or at sea. The end of a trip is defined to occur when a vessel unloads part or all of the catch, regardless of whether the unloading took place in port or at sea.

<u>Place of Unloading</u>: Specify the name of the port where the catch was unloaded, or the GPS position where unloading occurs at sea.

Hooks between Floats: Print the number of hooks used between successive two floats.

Primary Target species: Print the primary target species for this trip.

#### **Block Two: Catches**

Complete at least one line of Block Two for each set that was made during the trip. If no sets were made during the day, then provide the Month, Day, Activity Code, and the 01:00 UTC Position. If necessary, use more than one line to record the catch of other species.

<u>Month</u> and <u>Day</u>: The day should correspond to the day on which the crew started the set; record the day number and not the day of the week.

<u>Activity Code</u>: Use Activity Code 1 ('A set') if the line in Block Two corresponds to a set of the longline gear in the water. Use Activity Code 2 ('A day at sea but not fished and not in transit – please specify') if the vessel was at sea, but the longline gear was not placed in the water that day and the vessel was **not** in transit, please describe the activity on the line that refers to that day. Use Activity Code 3 ('Transit') if no sets were made and the vessel spent most of the day in transit. Use Activity Code 4 ('In port - please specify') if no sets were made and the vessel spent most of the day in port. If no code exists, please describe the activity on the form.

<u>01:00 UTC or Set Position</u>: If a set was made, print the position of the start of the set. If no sets were made during the day, print the position at 01:00 UTC. The position should be recorded to the nearest minute of latitude and longitude (e.g. "08–22 N" and "165–45 E").

Set Start Time: Print the UTC time when the crew started placing the longline gear in the water.

Number of Hooks: Print the total number of hooks that were set.

<u>Albacore</u>, <u>Bigeye</u> and <u>Yellowfin</u>: Print number of fish caught and retained under *NO RET*. Print the total amount of the whole weights for albacore, and the gilled-and-gutted weights for bigeye and yellowfin, of all fish that were caught and retained, in kilograms, under *KG RET*. Print number of fish that were discarded under *NO DISC*.

<u>Shark</u>: Print the number of fish caught and retained, **excluding** fish from which only the fins were retained and not the body, under <u>NO RET</u>. Print the number of fish discarded, **including** fish from which only the fins were retained and not the body, under <u>NO DISC</u>.

Striped Marlin, Blue Marlin, Black Marlin, and Swordfish: Print number of fish caught and retained under NO RET. Print total amount of the processed weights of all fish that were caught and retained, in kilograms, under KG RET.

<u>Other Species</u>: Print the full name of the species under *NAME*. Print the number of fish caught and retained under *NO RET*. Print the total amount of the processed weights of all fish that were caught and retained, in kilograms, under *KG RET*. When more than one 'other' species occurs in a set, use additional lines on the logsheet. If a species of special interest (such as a marine turtle, marine mammal or sea bird) is caught, then record the capture on a separate line.

<u>Vessels Sighted</u>: If other fishing vessels are sighted, write the name of the vessel, and other identifiers, such as the vessel type, on one line of the logsheet.

Whale Predation: If any fish were predated by whales, write the number of fish predated by whales on one line of the logsheet.

## CDC / FEA DECIONAL BOLE AND LINE LOCALIFET

						SPC / FFA	KE	GIONAL	POLE-A	ND-LINE	LOGSHEE				PAGE	OF
NAME OF V	'ESSEL							FISHING PERMIT OF	R LICENCE NUMBER	i(S)			NUMBER OF CREW		YEAR TRIF	No. THIS YEAR
NAME OF F	ISHING CON	//PANY				FFA VESSEL REGISTER NUME	BER	NAME OF AGENT IN	I PORT OF UNLOAD!	NG			PORT OF DEPARTURE		DATE AND TIME OF DEP	ARTURE
REGISTRAT			OF REGISTRATION	DN		WCPFC IDENTIFICATION NUMI		ALL WE	IGHTS MUST	IES MUST BE I BE KILOGRAI HEET AFTER F		AL UNLOA	PLACE OF UNLOADING	à	DATE AND TIME OF ARF	IVAL IN PORT
			BAIT	0	1:00 U	TC POSITION			RI	TAINED CAT	TCH			DIS	CARDS	
MONTH	DAY	ACTIVITY	ONBOARD	LATITUDE	N	LONGITUDE	Е	SKIPJACK	YELLOWFIN	BIGEYE	OTHER SPE	CIES	TUNA SPE	ECIES	OTHER SP	ECIES
		CODE	Y/N	DDMM.MMM	S	DDDMM.MMM	W	WEIGHT	WEIGHT	WEIGHT	NAME	WEIGHT	NAME	NUMBER	NAME	NUMBER

MONTH	DAY	ACTIVITY	ONBOARD	LATITUDE	N	L	ONGITUDE	Е	SKIPJACK	YELLOWFIN	BIGEYE	OTHER SPE	CIES	TUNA SPI	ECIES	OTHER SP	ECIES
		CODE	Y / N	DDMM.MMM	S	DI	DDMM.MMM	W	WEIGHT	WEIGHT	WEIGHT	NAME	WEIGHT	NAME	NUMBER	NAME	NUMBER
-																	
-																	
ACTIVITY CODES PAGE TOTAL						OTAL											
1.5.1.1.1.5.5.2.5						TRIP TO											
1 2 N	J FISHING	a - GOLLECTI	Nta BAII														

- 3 NO FISHING TRANSIT
- 4 NO FISHING BREAKDOWN
- 5 NO FISHING BAD WEATHER 6 IN PORT PLEASE SPECIFY

TRIP TOTAL
NAME OF CAPTAIN

SIGNATURE OF CAPTAIN

DATE

### SPC / FFA REGIONAL POLE-AND-LINE LOGSHEET INSTRUCTIONS

#### **Block One: Vessel Identification and Trip Information**

<u>Country of Registration</u> and <u>Registration Number in Country of Registration</u>: Print the name of the country in which the vessel is registered (e.g. "Japan") and the registration number issued by the country in which the vessel is registered (e.g. "ME1-808").

*FFA Vessel Register Number*: Print the number issued by the Forum Fisheries Agency for inclusion of the vessel on the FFA Vessel Register (e.g. "12345"). *WCPFC Identification Number*: Print the number issued by the Flag State.

<u>Fishing Permit or Licence Number(s)</u>: If the vessel fished under one or more bilateral access agreements, then print the fishing permit number issued by each of the coastal states in whose waters the vessel fished during the trip. If the vessel fished under a multilateral treaty, then print the fishing permit number issued to the vessel under the multilateral treaty. If the vessel is registered in the coastal state, then print the fishing licence number issued by the coastal state.

<u>Name of Agent in Port of Unloading</u>: Print the name of the agency or agencies which represented the vessel in the port or ports in which the vessel unloaded the catch recorded on the logsheet. In case of transhipment at sea, print the name of the carrier and destination of the unloaded catch.

Place of Unloading: Specify the name of the port where the catch was unloaded, or the GPS position where unloading occurs at sea.

Number of Crew: Print the total number of officers and crew, excluding observers.

<u>Year</u> and <u>Trip Number This Year</u>: Print the year in which the vessel departed from port at the start of the trip and the number of trips the vessel has taken this year (including this trip). The start of a trip is defined to occur when a vessel leaves port to transit to a fishing area or to transit to another port to complete unloading. The end of a trip is defined to occur when a vessel enters port to unload part or all of the catch.

#### **Block Two: Catches and Discards**

Complete at least one line of Block Two for each day at sea. If necessary, use more than one line to record the retained catch of other species and discards.

 $\underline{Month}$  and  $\underline{Day}$ : The day should correspond to the day on which the activity commenced; record the day number and not the day of the week.

<u>Activity Code</u>: Use Activity Code 1 ('A day fishing or searching') for days on which tuna were caught or the vessel searched for tuna. Use Activity Code 2 ('No fishing - collecting bait') for days on which no tuna were caught and the vessel collected bait. Use Activity Code 3 ('No fishing - transit') for days on which no tuna or bait were caught and the vessel spent most of the day in transit. Use Activity Code 4 ('No fishing - breakdown') for days on which no tuna or bait were caught and the vessel spent most of the day inactive due to a breakdown. Use Activity Code 5 ('No fishing - bad weather') for days on which no tuna or bait were caught and the vessel spent most of the day inactive due to a bad weather. Use Activity Code 6 ('In port - please specify') for days on which no tuna or bait were caught and the vessel spent most of the day in port. If no code exists, please describe the activity on the form.

Bait Onboard Y/N: Print 'Y' if, at any time during the day, sufficient bait was carried to chum a school of fish. Print 'N' if, during the whole day, insufficient bait was carried to chum a school of fish.

<u>01:00 UTC Position</u>: Print the 01:00 UTC position to the nearest thousandth of a minute of latitude and longitude (e.g. "08–22.334 N" and "165–45.556 E").

<u>Retained Catch</u>: <u>Skipjack</u>, <u>Yellowfin</u>, <u>Bigeye</u>, and <u>Other Species</u>: Print the amounts caught during the day (rounded to the nearest metric tonne). If a species other than skipjack, yellowfin or bigeye, was caught and not discarded, then print the full name of the species in the column under <u>Retained Catch</u>, <u>Other Species</u>, <u>Name</u> and print the amount caught (rounded to the nearest metric tonne) in the column under <u>Retained Catch</u>, <u>Other Species</u>, <u>Weight</u>. When more than one 'other' species occurs in a set, use additional lines on the logsheet. Do not record the amount of bait that was caught. If a species of special interest (such as a marine turtle, marine mammal or sea bird) is caught, then record the capture on a separate line.

<u>Discards</u>: If tuna or other species were discarded, then print the name of the species in the column under <u>Discards</u>, <u>Tuna Species</u>, <u>Name</u> and print the number of fish discarded in the column under <u>Discards</u>, <u>Tuna Species</u>, <u>Number</u>. If any other species was discarded, then print the name of the species in the column under <u>Discards</u>, <u>Other Species</u>, <u>Name</u> and print the number of fish discarded in the column under <u>Discards</u>, <u>Other Species</u>, <u>Number</u>. Do not record the amount of bait that was discarded.

<u>Vessels Sighted</u>: If other fishing vessels are sighted, write the name of the vessel, and other identifiers, such as the vessel type, on one line of the logsheet.

## SPC / FFA REGIONAL PURSE-SEINE LOGSHEET

PAGE	OF

									,	DF 0 / 1		JIONA	L 1 011	OL-OL	IINL L	Odon								
NAME OF	VESSEL									FISHING	PERMIT OR LIC	ENCE NUMBER	R(S)								YE	EAR	TRIP No. TI	HIS YEAR
NAME OF	FISHING	COMPANY				FFA	A VESSEL I	REGISTER	NUMBER	NAME O	F AGENT IN POP	RT OF UNLOAD	DING			No. OF FADS	SINVESTIGATED	PORT OF DE	PARTURE		PL	ACE OF UNLOADI	NG	
		ISTRATION	UNTRY OF REGISTE	RATION	N			IFICATION			LL DATES A				D DIOEVE		SSELS USED? (Y/N)					ATE AND TIME OF		
						<u>!</u>				• RI	ECORD SMA	ALL AND LA	ARGE YELL	OWFIN AN	DBIGEYE	SEPARATE	:LY	<u> </u>						
			01:00 UTC	OR	SET POSITION		SCHOOL	START	END				AINED CA	TCH (M	ETRIC TO	ONNES)					DIS	CARDS		
MONTH	DAY	ACTIVITY	LATITUDE	N	LONGITUDE	Е					YELLO	OWFIN	BIG	SEYE	OTHER	SPECIES	WELI		TUN	A SPECIES	3	OTH	HER SPECIE	ES
		CODE	DDMM.MMM	S	DDDMM.MMM	w	CODE	TIME	TIME	SKIPJACK	Small ≤9 kgs	Large > 9 kgs	Small ≤9 kgs	Large > 9 kgs	NAME	TONNES	NUMBE	RS	NAME	TONNES	CODE	NAME	NUMBER	TONNES
																						1		
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ACTIV	ITY COD	NEC .	eci	4001	ASSOCIATION CO	ODE		PA	GE TOTAL															
	ORD ALL		1	UNAS	SSOCIATED		"	TI	RIP TOTAL															
			E IN A DAY, 3		DING ON BAITFISH TING LOG, DEBRIS		,  -					LINILO	ADINOC	TO OANINI	DV OOL	D CTODA	OF CARRIE	OD OT	IED VECCE		•			
RECC THAT		MAIN ACT			AD ANIMAL TING RAFT, FAD C	n P		START	DATE	END DA	TE		OR VESSE				GE, CARRIEI	H OR OTE	SKIPJACK	ELLOWFI	II BIGEVE	MIXED	OTHERS	REJECTS
1 EIG	HING SE	т	PAY	YAO			-	017.1111	J, 1, E	2.10 07		0/11112111	0.1 12002			INTERNO	5 OALL GIGIN		Oran orton		Bideire	IVIIALD	- THERE	TILOLOTO
2 SE	ARCHING		5 PA		HORED RAFT, FAD	OR																		
	ANSIT FISHING	G - BREAKD	OWN 6	LIVE	WHALE																			
5 NC	FISHING	G - BAD WE	ATHER TUI		SCARD CODES																	<u></u>		
7 NE	T CLEAN	IING SET	2	FISH	TOO SMALL DAMAGED		N	AME OF C	CAPTAIN							SIGNATUR	RE OF CAPTAIN						DATE	
		OR RETR			SEL FULLY LOADE ER REASON	D																		

#### SPC / FFA REGIONAL PURSE-SEINE LOGSHEET INSTRUCTIONS

Logsheets must be completed for each trip. The start of a trip is defined to occur when a vessel leaves port to transit to a fishing area or to transit to another port to complete unloading. The end of a trip is defined to occur when a vessel enters port to unload part or all of the catch.

### Block One: Vessel Identification and Trip Information

<u>Country of Registration</u> and <u>Registration Number in Country of Registration</u>: Print the name of the country in which the vessel is registered (e.g. "Japan") and the registration number issued by the country in which the vessel is registered (e.g. "ME1-808").

<u>FFA Vessel Register Number</u>: Print the number issued by the Forum Fisheries Agency for inclusion of the vessel on the FFA Vessel Register (e.g. "12345"). <u>WCPFC Identification Number</u>: Print the number issued by the Flag State.

*Fishing Permit or License Number(s)*: If the vessel fished under one or more bilateral access agreements, then print the fishing permit number issued by each of the coastal states in whose waters the vessel fished during the trip. If the vessel fished under a multilateral treaty, then print the fishing permit number issued to the vessel under the multilateral treaty. If the vessel is registered in the coastal state, then print the fishing license number issued by the coastal state.

<u>Name of Agent in Port of Unloading</u>: Print the name of the agency or agencies which represented the vessel in the port or ports in which the vessel unloaded the catch recorded on the logsheet. <u>Place of Unloading</u> Specify the name of the port where the catch was unloaded, or the GPS position where unloading occurs at sea.

<u>Number of FADs Investigated</u>: Print the number of individual FADs that were investigated during the trip, regardless of which vessel may have deployed the FAD. Count each FAD once, regardless of the number of times an individual FAD was investigated.

<u>Year</u> and <u>Trip Number This Year</u>: Print the year in which the vessel departed from port at the start of the trip and the number of trips the vessel has taken this year, including this trip. (See the definitions of the start and end of a trip above.)

Amount of Fish Onboard at Start of Trip: If any fish caught during a previous trip have not been unloaded before the departure of the current trip, then print the amount of fish onboard the vessel at the start of the current trip.

Amount of Fish Onboard After Unloading: If any fish remained onboard after the unloading of the catch from the current trip and before the departure of the next trip, then print the amount of fish onboard the vessel at the start of the next trip.

#### Block Two: Catches and Discards

Complete at least one line of Block Two for each set made, either fishing set or net cleaning set, even if the fishing set was unsuccessful. If no fishing sets were made during the day, then provide the Month, Day, Activity Code, and the 01:00 UTC Position. All columns must be completed for each fishing set, **including the discards columns**. If necessary, use more than one line to record the retained catch of other species, well numbers, and discards.

<u>Activity Code</u>: Use Activity Code 1 ('Fishing set') when a set on a school of fish was made. Use Activity Code 2 ('Searching') for days on which no fishing sets were made and the main activity was searching for schools of fish. Use Activity Code 3 ('Transit') for days on which no fishing sets were made and the main activity was transiting. Use Activity Code 4 ('No fishing - breakdown') for days on which no fishing sets were made and the main activity was being inactive due to breakdown. Use Activity Code 5 ('No fishing - bad weather') for days on which no fishing sets were made and the main activity was being inactive due to bad weather. Use Activity Code 6 ('In port - please specify') for days on which no fishing sets were made and the main activity was being in port (e.g. to disembark an injured crew member). Use Activity Code 7 ('Net cleaning set') for any sets that were not made on a school of fish. If no code exists, please describe the activity on the form. Use Activity Code 10 ('Deploying or retrieving raft, FAD or payao') for days on which no fishing sets were made and the main activity was deploying or retrieving rafts, FADs or payaos.

<u>01:00 UTC or Set Position</u>: If a set was made, print the position of the set. If no sets were made during the day, print the position at 01:00 UTC. The position should be recorded to the nearest thousandth of a minute of latitude and longitude (e.g. "08–22.334 N" and "165–45.556 E").

<u>School Assoc Code</u>: Schools of tuna are often associated with a floating object or an animal. If the school was not associated with anything, then use School Association Code 1 ('Unassociated'). If the school was associated with an object that is not on the list of School Association Codes, then use School Association Code 8 ('Other') and please describe the object.

<u>Set Start Time</u>: Print the UTC time at which the skiff was put in the water.

<u>Retained Catch: Skipjack, Yellowfin, Bigeye</u>, and <u>Other:</u> Print the amounts caught in the set, rounded to the nearest metric tonne. If a species other than skipjack, yellowfin and bigeye was caught and not discarded, print the name of the species in the column under *Other Species, Name*, and the amount caught under *Other Species, Weight*. If a species of special interest (such as a marine turtle, marine mammal or sea bird) is caught, then record the capture *Other Species, Name*. When more than one 'other' species occurs in a set, use additional lines on the logsheet.

<u>Well Numbers</u>: Print the number of the wells in which the catch from the set was stored initially and note any transfers amongst wells with arrows, for example: " $S4 \rightarrow P3,P2,P5$ " and " $S4,S5 \rightarrow P3$ ".

<u>Discards</u>: If tuna were discarded, then print the name of the species, the amount discarded, and the Discard Code. If any other species was discarded, print the name of the species, and the total number of fish discarded or the total weight of fish discarded.

<u>Vessels Sighted</u>: If other fishing vessels are sighted, write the name of the vessel, and other identifiers, such as the vessel type, on one line of the logsheet.

#### Block Three: Unloadings

<u>Unloadings to Cannery, Cold Storage, Carrier or Other Vessel</u>: When fish are unloaded at the end of a trip, record the date on which unloading began, the date on which unloading ended, the name of the cannery or vessel to which the fish were unloaded, the port in which the fish were unloaded, the international radio call sign of the vessel to which the fish were unloaded, and the amount of each species unloaded. If unloading to a vessel, also record the destination of the fish beside the name of vessel. Use one line for each cannery or vessel to which the fish were unloaded. If unloadings of skipjack and yellowfin were not recorded separately, then record the total amount unloaded under *Mixed*.

## SPC / FFA REGIONAL HANDLINE LOGSHEET

OF

NAME C	F VESSE	L								FISHING PI	ERMIT OF	R LICENC	E NUMBER(S	5)				-									YEAR		TRIP No.	. THIS YEA	AR
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			01:00 LITC	OR E	ISHING POSITIO	)NI					NOEVE		VELI	OWF	N	CIVI	PJACK	,	CLI	IARK	CTDI	DED	BLU	·-	BLA	OK			OTHER	SPECIE	-0
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#### SPC / FFA REGIONAL HANDLINE LOGSHEET INSTRUCTIONS

#### **Block One: Vessel Identification and Trip Information**

Country of Registration and Registration Number in Country of Registration: Print the name of the country in which the vessel is registered (e.g. "Japan") and the registration number issued by the country in which the vessel is registered (e.g. "ME1-808").

<u>FFA Vessel Register Number</u>: Print the number issued by the Forum Fisheries Agency for inclusion of the vessel on the FFA Regional Register (e.g. "12345"). <u>WCPFC Identification Number</u>: Print the number issued by the Flag State.

<u>Fishing Permit or Licence Number(s)</u>: If the vessel fished under one or more bilateral access agreements, then print the fishing permit number issued by each of the coastal states in whose waters the vessel fished during the trip. If the vessel fished under a multilateral treaty, then print the fishing permit number issued to the vessel under the multilateral treaty. If the vessel is registered in the coastal state, then print the fishing licence number issued by the coastal state.

<u>Name of Agent in Port of Unloading</u>: Print the name of the agency or agencies which represented the vessel in the port or ports in which the vessel unloaded the catch recorded on the logsheet. In case of transhipment at sea, print the name of the carrier and destination of the unloaded catch.

<u>Year</u> and <u>Trip Number This year</u>: Print the year in which the vessel departed from port at the start of the trip and the number of trips the vessel has taken this year (including this trip). The start of a trip is defined to occur when a vessel leaves port to transit to a fishing area or to transit to another port to complete unloading. The end of a trip is defined to occur when a vessel enters port to unload part or all of the catch.

Place of Unloading: Specify the name of the port where the catch was unloaded, or the GPS position where unloading occurs at sea.

Range in Length of Handline (s) (metres): Print the range in the lengths (metres) of the handlines used during this trip.

Primary Target species: Print the primary target species for this trip.

#### **Block Two: Catches**

Complete at least one line of Block Two for each fishing period undertaken during the trip. If no fishing was undertaken during the day, then provide the Month, Day, Activity Code, and the 01:00 UTC Position. If necessary, use more than one line to record the catch of other species.

Month and Day: The day should correspond to the day on which the crew started fishing; record the day number and not the day of the week.

Activity Code: Use either Activity Code 1 ('Fishing in the vicinity of an Anchored FAD'), Activity Code 2 ('Fishing - Trolling') or Activity Code 3 ('Fishing, but not on Anchored FAD or Trolling') in Block Two for days when the handline gear is placed in the water. If fishing is not conducted in the vicinity of an anchored FAD or trolling, please describe the fishing association (e.g. "fishing on a sea mount"). Use Activity Code 4 ('A day at sea but not fished and not in transit, please specify') if the vessel was at sea, but the handline gear was not placed in the water that day and the vessel was not in transit, please describe the activity on the form. Use Activity Code 5 ('Transit') if no fishing was undertaken and the vessel spent most of the day in transit. Use Activity Code 6 ('In port-please specify port name and activity') if no fishing was undertaken and the vessel spent most of the day in port. If no code exists, please describe the activity on the form.

<u>01:00 UTC or Set Position</u>: If fishing was undertaken, print the position at the start of fishing. If fishing was not undertaken during the day, print the position at 01:00 UTC. The position should be recorded to the nearest thousandth of a minute of latitude and longitude (e.g. "08–22.062 N" and "165–45.143 E").

<u>Start and End Fishing Times</u>: Print the UTC time when the crew started placing the handline gear in the water and when the crew finished fishing.

<u>Number of Hooks</u>: Print the total number of hooks that were used. This corresponds to the number of lines fishing if single-hook lines are used.

Bigeye, Yellowfin and Skipjack: Print number of fish caught and retained under NO RET. Print the total amount of the whole weights for albacore, and the gilled-and-gutted weights for bigeye and yellowfin, of all fish that were caught and retained, in kilograms, under KG RET. Print number of fish that were discarded under NO DISC.

<u>Shark</u>: Print the number of fish caught and retained, excluding fish from which only the fins were retained and not the body, under NO RET. Print the number of fish discarded, including fish from which only the fins were retained and not the body, under NO DISC.

Striped Marlin, Blue Marlin, Black Marlin, and Swordfish: Print number of fish caught and retained under NO RET. Print total amount of the processed weights of all fish that were caught and retained, in kilograms, under KG RET.

Other Species: Print the full name of the species under NAME. Print the number of fish caught and retained under NO RET. Print the total amount of the processed weights of all fish that were caught and retained, in kilograms, under KG RET. When more than one 'other' species occurs in a set, use subsequent lines on the logsheet.

## SPC / FFA REGIONAL TROLL LOGSHEET

PAGE	OF

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NAME C	F VESSEL									FISHING PERM	IT OR LICEN	CE NUMBER	(S)								YEAR			
NAME C	F FISHING	COMPANY				FFA	VESSEL R	REGISTER NU	JMBER	NAME OF AGE	NT IN PORT C	OF UNLOADI	NG			PRIMARY T.	ARGET SPECIE	S			TRIP NUM	MBER THIS YEAR		
COUNT	RY OF REG	ISTRATION				WCP	PC IDENTIF	IFICATION N	UMBER	А			S MUST BE	UTC / GMT		PORT OF D	EPARTURE				DATE AN	ND TIME OF DEPARTUR	·Ε	
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			01:	:00 UTC	POSITION					ALBACORE			SOUTHER	N BLUEFIN	or		SKIPJACK		١	YELLOWFIN		OTHER S	SPECIES	
MONTH	DAY	ACTIVITY CODE	LATITUDE	N	LONGITUDE	Е	NUMBER OF	HOURS	No	KG	No	SPECIES	PACIFI No	C BLUEFIN KG	No	No	KG	No	No	KG	No		No	No
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#### SPC / FFA REGIONAL TROLL LOGSHEET

#### INSTRUCTIONS

#### **Block One: Vessel Identification and Trip Information**

<u>Country of Registration and Registration Number in Country of Registration</u>: Print the name of the country in which the vessel is registered (e.g. "Japan") and the registration number issued by the country in which the vessel is registered (e.g. "ME1-808").

<u>FFA Vessel Register Number</u>: Print the number issued by the Forum Fisheries Agency for inclusion of the vessel on the FFA Vessel Register (e.g. "12345"). <u>WCPFC Identification Number</u>: Print the number issued by the Flag State.

<u>Fishing Permit or Licence Number(s)</u>: If the vessel fished under one or more bilateral access agreements, then print the fishing permit number issued by each of the coastal states in whose waters the vessel fished during the trip. If the vessel fished under a multilateral treaty, then print the fishing permit number issued to the vessel under the multilateral treaty. If the vessel is registered in the coastal state, then print the fishing licence number issued by the coastal state.

<u>Name of Agent in Port of Unloading</u>: Print the name of the agency or agencies which represented the vessel in the port or ports in which the vessel unloaded the catch recorded on the logsheet. In case of transhipment at sea, print the name of the carrier and destination of the unloaded catch.

<u>Year</u> and <u>Trip Number This Year</u>: Print the year in which the vessel departed from port at the start of the trip and the number of trips the vessel has taken this year (including this trip). The start of a trip is defined to occur when a vessel leaves port to transit to a fishing area or to transit to another port to complete unloading. The end of a trip is defined to occur when a vessel enters port to unload part or all of the catch.

<u>Place of Unloading</u>: Specify the name of the port where the catch was unloaded, or the GPS position where unloading occurs at sea.

Primary Target species: Print the primary target species for this trip (assumed to be albacore).

#### **Block Two: Catches**

Complete one line of Block Two for each day during the trip. If no fishing was undertaken during the day, then provide the Month, Day, Activity Code, and the 01:00 UTC Position. If necessary, use more than one line to record the catch of other species.

<u>Month</u> and <u>Day</u>: The day should correspond to the day at sea; record the day number and not the day of the week.

<u>Activity Code</u>: Use Activity Code 1 ('Fishing occurred on this day') if any fishing occurred during this day. Use Activity Code 2 ('A day at sea but not fished or transit') if the vessel was at sea, but the troll gear was not placed in the water that day and the vessel was **not** in transit. Use Activity Code 3 ('Transit') if no fishing was undertaken and the vessel spent most of the day in transit. Use Activity Code 4 ('In port - please specify') if no fishing was undertaken and the vessel spent most of the day in port. If no code exists, please describe the activity on the form.

<u>01:00 UTC</u>: Print the position at 01:00 UTC. The position should be recorded to the nearest minute of latitude and longitude (e.g. "38–22 S" and "165–45 E").

Number of Lines: Print the number of lines that were used for the majority of the fishing period during this day.

Hours fished: Print the total number of hours that the troll gear was in the water during this day.

<u>Albacore</u>, <u>Southern Bluefin</u>, <u>Skipjack</u> and <u>Yellowfin</u>: Print number of fish caught and retained under *NO RET*. Print the total amount of the estimated whole weights for albacore, southern bluefin, skipjack and yellowfin, of all fish that were caught and retained, in kilograms, under *KG RET*. Print number of fish that were discarded under *NO DISC*. In the case of significant discards, write the reason for discards on a separate line.

<u>Other Species</u>: Print the full name of the species under *NAME*. Print the number of fish caught and retained under *NO RET*. Print the total amount of the processed weights of all fish that were caught and retained, in kilograms, under *KG RET*. When more than one 'other' species occurs in a set, use additional lines on the logsheet. If a species of special interest (such as a marine turtle, marine mammal or sea bird) is caught, then record the capture on a separate line.

# SPC / FFA Regional Longline Logbook - Vessel Characteristics

Revised Nov 2007

	1				1	
VESSEL NAME	COUNTRY RE	GISTRATION NUME	ER FLAG	à	IRCS	
YEAR BUILT	COUNTRY/ SH	HIPYARD WHERE BI	JILT			
VESSEL OWNER	OWNER'S CO	NTACT ADDRESS				
ALC INSTALLED ? IMMARS	AT NUMBER	VESSEL LENG	TH	Circle to indicate	e if the length is:	
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Tick ? to indicate the Hull Mate	rial.					
STEEL ALU	MINIUM C	) wo		FIBRE	GLASS	
OTHER - PLEASE SPECIFY:						
ENGINE MODEL	TOTAL ENGIN	NE POWER - HI	P / KW	VESSEL CRU	JSING SPEED in KNT	S
TOTAL FUEL CARRYING CAPACITY	KL / GA	AL FISH	STORAGE CA	APACITY -	MT / M³	
Tick ? to indicate the Storage Met	hod. You may t	ick more than one.				
ICE REFRIDGE	RATED SEAWA	ATER O	BRII	NE O	AIR (Coils)	)
CI	RCLE Y IF ONBOAR	RD <u>or</u> circle n if not c	NBOARD			
	_	_				
GPS BEACON	Y	N		NLINE		
GPS BEACON DOPPLER CURRENT METER				NLINE MATERIAL		
	Y	N				
DOPPLER CURRENT METER	Y Y	N N		MATERIAL		
DOPPLER CURRENT METER SEA SURFACE TEMP GAUGE	Y Y Y	N N N	MAI	MATERIAL		
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DOPPLER CURRENT METER SEA SURFACE TEMP GAUGE SATELLITE SEA SURFACE IMAGES TORI POLE MITIGATION DEVICE LINE SHOOTER AUTOMATIC BRANCHLINE THROWER AUTOMATIC BRANCHLINE ATTACHER BAIT CHUTE  COMMENTS	Y Y Y Y Y Y Y Y Y Y	N N N N N N	FLO	MATERIAL LENGTH (NM)  PATLINE LENGTH (m) ANCHLINE LENGTH (m) WIRE TRACE		

## **Regional Longline Logbook - Vessel Characteristics**

You will not be issued with your logbook until you have filled in and signed this form.

VESSEL NAME: The full name of the vessel as marked on the country registration certificate.

COUNTRY REGISTRATION NUMBER: The number marked on your country registration certificate.

FLAG : The vessel's nationality or country of registration (sometimes a flag of convenience).

IRCS : Fill in your International Radio Call Sign.

YEAR BUILT : State the year the vessel was first built in.

COUNTRY / SHIPYARD WAS BUILT: State the country and the name of the shipyard in that country where the vessel was originally built.

VESSEL OWNER: The full name of the vessel's owner.

OWNER'S CONTACT ADDRESS: The postal address for the vessel owner.

ALC INSTALLED: Circle Y(yes) if an automatic locator communicator has been installed.

IMMARSAT NUMBER: Give the Immarsat contact number.

VESSEL LENGTH: Fill in the vessel's length and then circle to indicate if the length is in meters (m) or

feet (ft). Also circle to indicate if the vessel's length is the overall length or the registered length.

FISHING PERMIT OR LICENCES NUMBERS: List all fishing permit numbers and their expiry dates.

HULL MATERIAL: Tick one of the four give options to state the main type of material used in the hull.

ENGINE MODEL: State the engine make and model number.

TOTAL ENGINE POWER: State the engine power in horse-power (HP) or kilowatts (KW)

VESSEL CRUSING SPEED: State the vessel's top cruising speed in knots.

TOTAL FUEL CARRYING CAPACITY: State the vessel's total fuel carrying capacity in kiloliters (KL) or gallons (GAL).

FISH STORAGE CAPACITY: State the total storage available to store the catch in metric tonnes or cubic meters.

STORAGE METHOD: Tick one or more of the four options to indicate all storage methods used for the landed catch.

#### ELECTRONICS AND FISHING GEAR

Circle Y(yes) for every piece of equipment that is onboard the vessel.

Circle N (no) if the indicated piece of equipment is not onboard the vessel.

## Please do not leave any line blank

#### **MAINLINE**

Indicate the type of material used in the mainline.

Indicate the total length of the mainline in nautical miles (nm)

#### **FLOATLINE**

Indicate the average length of the floatlines in meters (m).

## BRANCHLINE

Indicate the average length of the branchline in meters (m).

Indicate if wire trace is being used in the branchline, before the hook.

COMMENTS: Use this area to fill any extra comments you have about the vessel, or other information required by your local Fisheries Department.

Captain's Name and Signature: **P**rint the Captain's name clearly, and then the Captain must sign this form before the logbook can be issued.

# SPC / FFA Regional Longline Logbook - Daily Form

REVISED: NOV 2007

TODA DETA		Ves	sel Name							Trip N	Vumb	oer /	Year			
IID-DAY TIME	SHIP'S TI	ME	SHIP'S DA (DD / MM A		(DD	TUDE . MM)	N S	LONGITUDE (DDD . MM)	E W			TIME 00 hrs)			TC DA / MM	
	12.00 hi	rs	1	/	0			0							/	/
CIRCLE TODAY'S ACTIVITY	<b>1.</b> Fis	shinç	g <b>2</b> . No	t Fishing	& not in	Transit (spec	cify) 3	. Transit 4. Br	eakown	<b>5</b> . B	ad W	/eather	6. Oth	er pls s	pecify	у
or days w	ith "1. l	Fish	ing" pleas	se fill in	all the fi	shing detail	s below	·.								
FISHI	NG		SHIP'S T	IME		SHIP'S DATE		LATITU	IDE		N S		LONGIT	UDE		E W
DETA	LS		(00.00 h	nrs)		DD / MM / Y	1	(DD°N	ИМ)				(DDD °	MM)		
START OF	SET					/ /		۰					0			
END OF	SET					/ /		٥					0			
START OF	HAUL					/ /		۰					0			
END OF H						/ /		۰					0			
TICK P	RIMAR	ΥT	ARGET	SPECIE	ES →	TUNA	$\supset$	SWORD	-ISH <			SHAF	RK C	) IF	ALIVE	CIRCLE
O. OF HOO	KS BETW	EEN	FLOATS			VESSEL SET	TING SPI	EED (knts)			1. B	AIT SPE	CIES	A		
OTAL NUMB	ER OF HO	OKS	SET			LINE SETTIN	G SPEED	(m/s)			2. B	AIT SPE	CIES	A		
OTAL NO. O	F LIGHTST	ICKS	SET			DIST. BETWI	EEN BRA	NCHLINES (m)			3. B	AIT SPE	CIES	A		
SPE	CIES		Number Retained	Kg. Ret.	No. Disc.	Reason Disc.	No. Rel Alive	SPECIE	S	Num Retai		Kg. Ret.	No. Disc	Rea Dis		No. F
ellowfin ≤ 2	0kg <b>YF</b>	т						Mahi Mahi	DOL							
ellowfin >2	0kg <b>YF</b>	Т						Escolar	LEC							
igeye ≤ 20	okg BE	Т						Wahoo	WAH							
igeye >20l	g BE	T						Opah (moonfish)	LAG							
Albacore	AL	В						Sunfishes	MOP							
Skipjack	SK	J						Pelagic Stingray	PLS							
Striped Ma	<sub>rlin</sub> ML	S						Snake Mackerel	GES							
Blue Marli		-+						Barracudas	BAR							
Black Mar		-			-			Breams	BRZ							
wordfish	SW as TP							Lancetfishes	ALI							
	s ir	-+														
Sailfish Shortbille																
spearfish	<u> </u>							Unidentified								ļ
ilky Shark		_						ш <u>Green</u> ⊐	TUG				ļ	<del> </del>		<u></u>
Slue Shark Oceanic	00	-						⊢ Hawksbill Loggerhead	TTH					<del> </del>		ļ !
Whitetip Sh Hammerhe	ark SP							☐ Leatherback					<b> </b>			ļ Ī
sharks Mako shai		_						Olive Ridley	DIVIN				<del> </del>	<u> </u> 		<u> </u>
Threshe		-						Marine Mammals (	)				<del></del>			<b>}</b>
Sharks								Bird (	)							<b> </b>
Commeni	s Tag	nui	mbers / w	hale int	eraction	s or sightin	gs / nu	imber of catch	taken l	y wha	les /	weath	er cond	tions.		•
	0					٥				•						

Captain's Signature

## SPC / FFA Regional Longline Logbook – Daily Form Instructions

## **Today's Details**

Vessel Name: The full name of the vessel as written on the country registration certificate.

Number / year Number your fishing trips throughout the year. For instance, the second trip made during 2007 will be recorded as "02 / 2007.

Mid-day time and Position By completing this area will help convert the time you normally use on the

boat to a more universal time i.e. UTC.

Ship's time - 12.00 hrs. Fill in this box at mid-day every day.

Ship's date

State today's date. The date used and recognised by the crew and captain

onboard.

Latitude Mark the latitude position of the vessel every day at mid-day.

Longitude Mark the longitude position of the vessel every day at mid-day.

UTC time **Record** the UTC time every day at mid-day. The UTC time is available on

the GPS.

UTC date Record the UTC date, every day at mid-day. It is available on the GPS.

Circle today's activity Circle the main activity the vessel will do, or is doing for the day. If you have circled "1. Fishing", please continue to fill in all of the fishing details on the rest of the page.

## **Fishing Details**

Fill in the following details for the start and the end of each set and haul.

Ship's time
Ship's date
Latitude
Longitude
The ship's latitude at the time of the activity.
The ship's longitude at the time of the activity.

*No. of hooks between floats* : The standard number of hooks between two floats.

Total number of hooks set : The total number of hooks set.

Total no. of lightsticks set : The total number of lightsticks set.

Vessel setting speed (knts) : The average speed of the vessel during setting.

Line setting speed (m/s) : If a line shooter is used record the speed the line was set at in meters per second. Knots per second divided by 2 is approximately give meters per second.

Dist. Between Branchlines (m): Calculate the distance between the branchlines by multiplying your line setting speed by the branchline set interval (or number of seconds between the branchline attachments) or give an estimate of this distance.

Bait Species : The name of all bait species used. Circle 'A' if any of the bait used was

live.

**Species** 

Number Retained.
Kg Retained.
No Disc.
Fill in the total number of each species retained.
Record the total weight of fish in weight (kilograms).
Fill in the total number of each species that was discarded.

Reason Disc Using the supplied codes, note the reasons any species were discarded.

No. rel alive Fill in the total number of any species released alive.

Comments Use this area to mark down any comments about what happened during the day and which may be useful to the vessel here.

Print Captain's name clearly **P**rint the Captain's full name.

Captain's Signature Signature of the Captain

INTERIM: SPC/FFA NOV 2007	REGIO	NAL .	ART	ISANAI	_ FAD F	ISHING	LOGS	HEET		PAGE	OF
Location	Date				BOAT, SKI	PPER and CF	REW				
Departure time	Return time				Fuel and ar	mount			Engine hou	rs	
TIME		NUMB	ER OF	SPECIES		SPECIES		SPECIES		SPECIES	
FROM TO ARE	EA FISHED OR FAD NO.	LINES	HOOKS	NO.	KGS	NO.	KGS	NO.	KGS	NO.	KGS
	ACTIVITY			SPECIES		SPECIES		SPECIES		SPECIES	
				NO.	KGS	NO.	KGS	NO.	KGS	NO.	KGS
BAIT USED :											
TIME		NUMB	ER OF	SPECIES		SPECIES		SPECIES		SPECIES	
FROM TO ARE	EA FISHED OR FAD NO.	LINES	HOOKS	NO.	KGS	NO.	KGS	NO.	KGS	NO.	KGS
	ACTIVITY			SPECIES		SPECIES		SPECIES		SPECIES	
				NO.	KGS	NO.	KGS	NO.	KGS	NO.	KGS
BAIT USED :											
TIME		NUMB	ER OF	SPECIES		SPECIES		SPECIES		SPECIES	
EPOM TO	EA FISHED OR FAD NO.		HOOKS	NO.	KGS	NO.	KGS	NO.	KGS	NO.	KGS
	ACTIVITY			SPECIES		SPECIES		SPECIES		SPECIES	
				NO.	KGS	NO.	KGS	NO.	KGS	NO.	KGS
BAIT USED :											

Т	IME		NUME	BER OF	SPECIES		SPECIES		SPECIES		SPECIES	
FROM	TO	AREA FISHED OR FAD NO.		HOOKS	NO.	KGS	NO.	KGS	NO.	KGS	NO.	KGS
	ACTIVITY				SPECIES		SPECIES		SPECIES		SPECIES	_
					NO.	KGS	NO.	KGS	NO.	KGS	NO.	KGS
_	BAIT USED :											

					SPECIES		SPECIES		SPECIES		SPECIES	
	TIME		NUME	BER OF								
FROM	то то	AREA FISHED OR FAD NO.	LINES	HOOKS	NO.	KGS	NO.	KGS	NO.	KGS	NO.	KGS
	_	ACTIVITY		•	SPECIES		SPECIES		SPECIES		SPECIES	
					NO.	KGS	NO.	KGS	NO.	KGS	NO.	KGS
	BAIT USED :											

#### SPC/FFA REGIONAL ARTISANAL FAD FISHING LOGSHEET Instructions

Location: Print the name of the departure port / area / or boat slip. Date: Print the date of the fishing. Use dd/mm/yy. Boat, Skipper and Crew: Print the full name of the boat, the skipper and all crew members. Departure time/ Return Time: Print the time the trip stated and ended. Use the 24hr clock (i.e. 17.00 hrs for 5 p.m.). Fuel and amount: Print the total amount of fuel used during this trip and mark down the type of fuel used. Engine hours: Print the total number of hours the engine was running during this fishing activity.

**Fishing Activity**: Fill in one box for each fishing event (i.e. any fishing that takes place in the same area with the same gear). If you change either the fishing area or fishing gear please start a new fishing activity box. Please note if you carry out more than one type of fishing at the same time you must fill in a fishing activity box for each type of fishing. More than one box may be required (example below).

Time (From To): Print the start and end time of the fishing activity. Area fished or FAD No.: Print the name of the areas fished. Use well-known local names or print the FAD number if the fishing was done on a FAD. Number of (Lines / Hooks). Print the total number of fishing lines used during this fishing activity and print the total number of hooks used. Activity: Print the type of fishing activity. See the list below. Bait used: Print the name of all of the bait species and the total number or total weight in kgs of each species used. See species list below. Species: Print the English name or the code for each landed species. See the list of common species and codes below. Refer to your species guide for other species. NO. Print the total number of this species landed. KGS Print the total weight (in kgs) of each species that was landed.

### (Note the Artisanal logsheet will be printed on A5. The following will be inserted for reference)

Т	IME		NUME	BER OF	SPECIES	/FT	SPECIES	SKJ	SPECIES V	VAH	SPECIES	
FROM	ТО	AREA FISHED OR FAD NO.	LINES	HOOKS	NO.	KGS	NO.	KGS	NO.	KGS	NO.	KGS
0530	0600	FAD1	3		2	8	4	12	1	15		
		ACTIVITY			SPECIES		SPECIES		SPECIES		SPECIES	
	Trollín	g, inshore FAD		NO.	KGS	NO.	KGS	NO.	KGS	NO.	KGS	
F	BAIT USED :	10 Opulu										

7	TIME		NUMBER OF		SPECIES W	SPECIES WAH			SPECIES		SPECIES		
FROM	ТО	AREA FISHED OR FAD NO.	LINES	HOOKS	NO.	KGS	NO.	KGS	NO.	KGS	NO.	KGS	
0600	0700	2 mile off	3		2	22							
		ACTIVITY		SPECIES		SPECIES		SPECIES		SPECIES			
Trol	ling, op	en-water		NO.	KGS	NO.	KGS	NO.	KGS	NO.	KGS		
l	BAIT USED :	5 Opulu									_		

Activity	Trolling	Vertical longline	Mid-water handline
Single hook drift line	Jigging	Tuna-hole fishing	Other(please specify)

Common species	and codes	Yellowfin	YFT	Albacore	ALB	Bigeye	BET
Skipjack	SKJ	Rainbow Runner	RRU	Wahoo	WAH	Mahi Mahi	DOL
Barracuda	BAR	Marlin	MAR	Sailfish	SAI	Shark	SKH
Mackerel Scad	MSD	Bigeye Scad	BIS	Triggerfish	TRI	Othersple	ease specify

## APPENDIX 7. SPC / FFA REGIONAL OBSERVER FORMS

LL-1	•	Longline General Information
LL-2/3	•	Longline Set and Haul Information
LL-4	•	Longline Catch Monitoring
LL-5	•	<b>Longline Conversion Factors</b>
PL-1	•	Pole-and-line General Information
PL-2	•	Pole-and-line Daily log
PL-3	•	Pole-and-line Catch Detail
<b>PS-1</b> (pg1)	•	Purse-Seine General Information
<b>PS-1</b> (pg2)	•	Purse-Seine General Information
PS-2	•	Purse-Seine Daily log
PS-3	•	Purse-Seine Set Details
<b>PS-4</b>	•	Purse-Seine Length Measurement
<b>PS-5</b> (pg1)	•	Purse-Seine Well Loading
<b>PS-5</b> (pg2)	•	Purse-Seine Well Loading
TR-1	•	Troll General Information
TR-2	•	Troll Daily Log
TR-1	•	Troll Catch Details
GEN-1	•	Vessel and Aircraft Sightings / Fish, Bunkering and Other Transfers Logs
GEN-1*	•	Vessel and Aircraft Sightings / Fish, Bunkering and Other Transfers Logs
GEN-2	•	Species of Special Interest
GEN-2*	•	Species of Special Interest - multi-landings
GEN-3	•	Vessel Trip Compliance Record
GEN-6	•	Pollution Report

<sup>\*</sup>Supplementary form

		S	PC/FF			AL LO					RVE	ER				FC	RM	LL-1		
	IP DE	TAILS																		
	VER NAME				D D	DEPARTUR M M	E (SHIF		AND h		m m	DEPA	RTUR	E PORT	-					
OBSER'	VER TRIP	D NUMBER			D D	RETURN ( M M	SHIP D Y \		ND TIN		m m	RETU	IRN PO	ORT						
VE	SSEL								(	CRE	W N	ATIC	NALIT	Y						
VESSEL			COUNTRY F		CAP	CAPTAIN FISHING MASTER														
	OWNER				FLAG		INTER	NATIO	NAL RA	ADIO CAL	LSIGN	OTH	EW:			:	How man			
VLOGEL	. OAI TAIN			ľ	ISI IING IVIA	SILII						OTH				:	now man	y:		
FISHING	S PERMIT	OR LICENCE NUMBER(S)		I								OTH CRE				· · · · · · · · · · · · · · · · · · ·	How man	y ?		
EL	ECTR	ONICS		USA	GE											USAGE				
		GPS	Y/N								DEPTI	H SOUN	DER	Υ	/ N					
		TRACK PLOTTER	Y/N									SST GA	UGE	Υ	/ N					
	_			USA	GE	MAK	E			МО	DEL					COMMI	ENTS			
* 1	VEW		Y / N																	
1	VEW		Y / N																	
	_	SONAR	Y / N																	
RA	DIO BEA	CON DIRECTION FINDER	Y / N																	
		GPS BUOYS	Y / N										How many ?							
	DOI	PPLER CURRENT METER	Y / N																	
			Y / N																	
	_	(BATHYTHERMOGRAPH)  System:		0.1	0									Seals	<b>V</b> /	N.I.				
	VMS -	Systom:	Y / N	AL										intact Seals	Υ /					
_	VMS -	2 Oystem.	Y / N	AL	С	Phone #							ı	intact	Y / Phone					
		INICATION PHONES	SATELLI	TE:	Y / N	N .			MOI				Υ	Y / N   Email:						
	SEF	OTHER	FACSIMI	LE:	Y / N	Fax#	EM			EMAIL:	MAIL: Y / N									
	INFOF	WEATHER	WEATHER	FAX	Y / N	SATELLITE MONITOR Y / N				N										
		VICES OTHER	Y / N	Phytopla	ankton	Y / N SST					Y	Y / N Sea Height					Y / N			
FIS	SHING	GEAR			USAGE	SAFI	ETY	EQ	UIP	MENT										
		MAINLINE HAU BRANCHLINE HAU		/ N / N		LIFE J	ACKE	Т		PRO	OVIDE	D FOR C		RVER:		/ N / O Y / N	LIFE	No. of BUOYS / E RINGS		
		LINE SHOO		/ N		AVAIL.	ABILIT e one)	Y		Easy			oderate			Hard	LIFE	KINGS		
		AUTOMATIC BAIT THRO		/ N		EPIRBs		Total	Exp.	LIF	E RA	FTS		1		2	3	4		
	AUTON	IATIC BRANCHLINE ATTAC	CHER Y	/ N		406	1			No. o	f people			<u> </u>						
		WEIGHING SCA	ALES Y	/ N		other				last date	of insp	ection (L) L-mm/yy)								
* ^	IEW					REF	RIGE	ERA	TIOI	N MET										
						BLAS	Т	Υ /	T	RE	FRIGI	ERATED		Υ	/ N			TORAGE		
M	AINLINE:	MATERIAL	LENGTH nM	DIAI	METER mm	FREEZ ICE		Y /			CHIL	ER / BRIN LED /ATER	NE		/ N	(des	cribe in tr	rip report) Y / N		
		1)		,.	VIRE								USA	GE CO	DES	(for "USA	GE" co	lumns)		
	NCHLINE	2)			RACE:	OBS				ОММЕ	NTS					he time ii				
MAT	TERIALS:	· ·		V	/ NI	UI	_		R GE JSE C	AH )F GEA	R					/ in transi				
		3)	"J"		/ N					e along						en in fishir netimes i		9		
Н	OOKS	JAPAN CIRCLE size % size %	size %		THER size %	a full description written in diary and trip report)  BRO -							- rarely used - broken now but used normally - no longer ever used							
													INUL	- 110	ungel	ever use	:u			

also read N.B. for

departure/return port

USE

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

Observer Name: Print first name and family name in full (e.g. "John Masa").

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

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

Departure (Ship Date and Time) \ Print date using "day day/ month month / year year" format.

Return (Ship Date and Time: Print time using 24 hour "hour hour: minute minute" format.

SHIP'S TIME

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

<u>Departure Port / Return Port</u>: Record in both boxes even if it is the same port.

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

Partial trips - If you meet your boat at sea, departure day / time is when transfering between boats. Departure port is "At sea".

If you transfer off your boat to another, day and time of return is when you transfer. Return port is "At sea".

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

#### VESSEL and CREW NATIONALITY

<u>Vessel Name</u>, <u>Vessel Owner</u>, <u>Vessel Captain</u>, <u>Fishing master</u>: Print full names whenever possible.

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

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

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

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

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

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

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

Captain and Fishing Master (under "Nationality"): Record the nationality of the Captain and/or the Fishing Master (eg: Taiwan). Other Crew: For each nationality of crew (not Captain or Fishing Master) report nationality and how many of that nationality.

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

\* New: Empty lines are to record new equipment not listed. Write about new equipment in "Comments" and trip report.

Usage: use codes (bottom front of form) to show how much each piece of equipment, for which "Y" is circled, is used VMS - 1 and VMS - 2: Record system type (e.g.: FFA approved, Argos) for each "vessel monitoring system" used by the vessel.

System type: If only 1 system record next to VMS-1. If 2 systems record FFA approved at VMS-1 and other system at VMS-2.

ALC make and model: Record manufacturer's name (e.g.: Trimble, Thrane and Thrane, Furuno, etc.) and the model, if possible.

Seal intact? A good (intact) seal is bright silver. A seal that has been interferred with has black crinkly lines through it.

Communication services: If vessel uses satellite and/or mobile phone and/or fax and/or email address, record contact details. Fishery Information Services: Vessels may receive real-time information on some oceanographic features.

Circle Y or N to show if they get information on sea-surface temperature (SST), phytoplanton densities or sea height. If they are receiving another type of information record that in "Comments" and write about it in your trip report. If "Y", record the url (website address) below the "Y / N" and write more about the website in your written report.

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

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

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

Write down the total length of the mainline in nautical miles. You will need to ask the Captain to get this information. Get the diameter of the mainline. Use small callipers to measure the width of the mainline.

Branchline: Record all types of material used in branchline - could include: monofilament, coloured polyester, tarred rope,

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

Hooks: Show type (Japan tuna, circle or "J" (big game)), size and an approximation of the usage (as % of total hooks used).

#### **SAFETY EQUIPMENT** (obtain as much information as possible without intruding)

Life jacket: if observer's (or fisheries') own, circle "O". Else circle "Y" or "N" to show if vessel showed one for observer's use.

Was it a good size ? Was it (easy) available, available but not easy (moderate) to get to, or (hard) to find

Lifebuoys/life rings - count all to be found **EPIRBS** - count total and count any with expired battery renewal dates.

Life rafts - find info on labels on life-rafts. If, after careful check, dates are not found, record "ND" for 'not displayed'.

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

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

Other storage: If another refrigeration or other storage method is observed descibe as much as possible about it in the trip report.

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

Write notes on anything special observed about this boat, its various equipment, or crew, when compared to other boats. Comment if equipment is not working, not used or is used in an unusual way. Describe any fishing gear that is different

equipment you see on other longliners and record make, model, special characteristics and usage of this new gear. If there is lots to write about (good) write it in the observer diary and in a special section in the trip report then write just

brief notes here and along side write in references to the relevant page numbers in the diary and observer trip report.

	SPC/FFA REGIONAL LONGLINE OBSERVER - SET and HAUL INFORMATION FORM LL - 2 / 3																	
	/ISED DEC. 2007 SERVER NAME				VESSEL NAME						OBSERVER TRIP ID	NUMBE	R	SET No.	F	PAGE	OF	
				LONGLINE SET	SPECIFICAT	TIONS	S				TARGET SPE	CIES	l		STAF	RT OF S	SET	
	No. OF HOOK	S PER BASKET	LIN	E SETTING SPEED	- m/s kts	(circle one)	VE	SSEL SPEED F	OR SETTING (kts	s)	('X' to indicate	E G	START OF SET  SHIP'S DATE AND TIME D D M M Y Y hh mm  UTC DATE AND TIME D D M M Y Y hh mm					
TOTAL No. OF BASKETS				ANCHLINE SET INTE	ERVAL (s)			SHARK LINES o	n floats (Hook N	TUNA		MUS						
_	TOTAL No. OF	HOOKS	BET	TWEEN BRANCHLIN	ES (m)			ber.:	SWORDFISH		LL	D D	M M	<u>/IE</u> Y Y	h h	m m		
	LENGTH OF F	. ,	LEN	IGTH OF BRANCHLI				WERE TDRs D		Y / N	SHARK							
	SHIP'S TIME	<u>LATITUDE</u> ( dd° mm.mmm' )	N S	<u>LONGITU</u> ( ddd° mm.m		E W			SUAL ETAILS			USE	D (tot	al weight	for EA	CH spe	cies)	
90	START SET	( dd iiiii.iiiiiii )	5	( ada IIIII.III	, , , , , , , , , , , , , , , , , , ,	VV		OLI D		SPECIES								
SET LOG	-				If "N" expla	oin					(KG)							
SE	Were all "S	Start" and "End" positions ob	served dire	ctly? Y / N	in commer						HOOK NOs							
	END SET										LIGHT STIC No. USED							
HAUL LOG							Ship's tim	BASKETS OBS	ERVED DURING	G HAUL	d hauling. Use lo		DID YC	OU OBSERVI		YES		circle
	END HAUL					(add i bot		F	TO R	ECORD ON EN-3 TODA	<b>Y ?</b>	eported in diary	pg#					

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

This will be a new set with new Start of Set Time and Set #. Be careful, during haul, to change to the second Form LL-2/3 and start a new Form LL-4 for the different set, at the correct place.

<u>Observer Name</u> and <u>Vessel Name</u>: Always print each of these names out in full (e.g. an observer name "John Masa", and a vessel name "Hai Hsiang No. 959") <u>Observer Trip ID Number</u>: Number issued by the authority you are working for. (e.g. John H. Masa, on his 3rd trip in 1996 may get Trip ID No.: "JHM 96-03").

Set No. 2", etc., all through a trip.

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

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

<u>Total No. of Baskets</u>, <u>Total No. of Hooks</u>: These are the totals for the entire set. <Total No. of Hooks> = <Total No. of Baskets>  $\times$  <No. of Hooks per Basket>

<u>Length of Floatlines (m)</u>, <u>Length of Branchlines (m)</u>: See diagram opposite

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

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

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

<u>Between branchlines (m)</u>: Distance between branchlines may be hand measured (in metres) or calculated by the observer using the formula: Line Setting Speed x Branchline Set Interval, or if these not available, ask captain, fishing master or bosun for the distance between branchlines) <u>Shark lines on floats (Hook No.99s)</u>: If vessel has special lines tied directly to the floats to catch extra sharks, count the total <u>Number</u> used in the set. What is their usual <u>Length (m)</u>?

N.B. Do not count a shark line on a float as one of the "hooks per basket" (see basket diagram) <u>Were TDRs deployed? Y/N</u>: Circle Y (yes) if one or more temperature depth recorders are deployed at any time during the set

<u>Target Species</u> - Cross the box/es next to the main species the vessel is targeting during this set. It is usually just one species but it could be more than one. **N.B.** to target a species gear must be set especially to catch that species. Because bycatch is retained does not mean it was targetted.

<u>Unusual Set Details</u>: The information that has been recorded in the "Longline Set Specifications" fields should represent the most common or average occurrence in the set. If this changes by much, sometimes, record the what the change is under "Unusual Set Details". Also note if the branchlines in the same basket are of different lengths.

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

Remember UTC date can be different from the Ship's date.

<u>Set Log</u> and <u>Haul Log</u> - this form has some <u>very important</u> changes to the pre-2004 forms <u>Start</u> and <u>End</u> of <u>Set</u> and <u>Haul</u> to be completed for every single set even if not fully monitored. The observer should read the GPS directly and must <u>explain</u> in "Comments" if they have not. The remaining lines in the <u>Haul Log</u> must be filled at approximately every hour. <u>Latitude</u>, <u>Longitude</u>, <u>N</u>, <u>S</u>, <u>E</u>, <u>W</u>: Record GPS positions in degrees, minutes and decimals, to three decimal places. Do not forget to enter north or south and east or west correctly

<u>Bait Used</u> - <u>Species</u>, <u>Kg</u>: Record species and weight (in kg) of each bait used. <u>Bait Used</u> - <u>Hook Nos</u>: Usually, if a boat uses more than one bait species it will put the same bait on the same hook numbers (see diagram) in each basket (e.g.: squid might go on hooks 3 and 4 while sardines go on hooks 1, 2, 5 and 6). Record the hooks for each bait under "hook nos" alongside that bait species. <u>No. of Light Sticks Used</u>: If lightsticks were used record the total number used in the set.

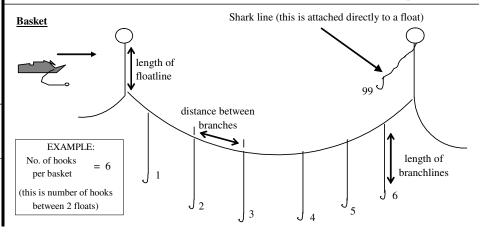
<u>Comment</u> s: Note significant conditions that affect set strategy or cause problems - unusual wind/sea state; SSI contacts; accidents; any unexpected event.

Include events from <u>Soak Time</u>, even if asleep but found out from crew later.

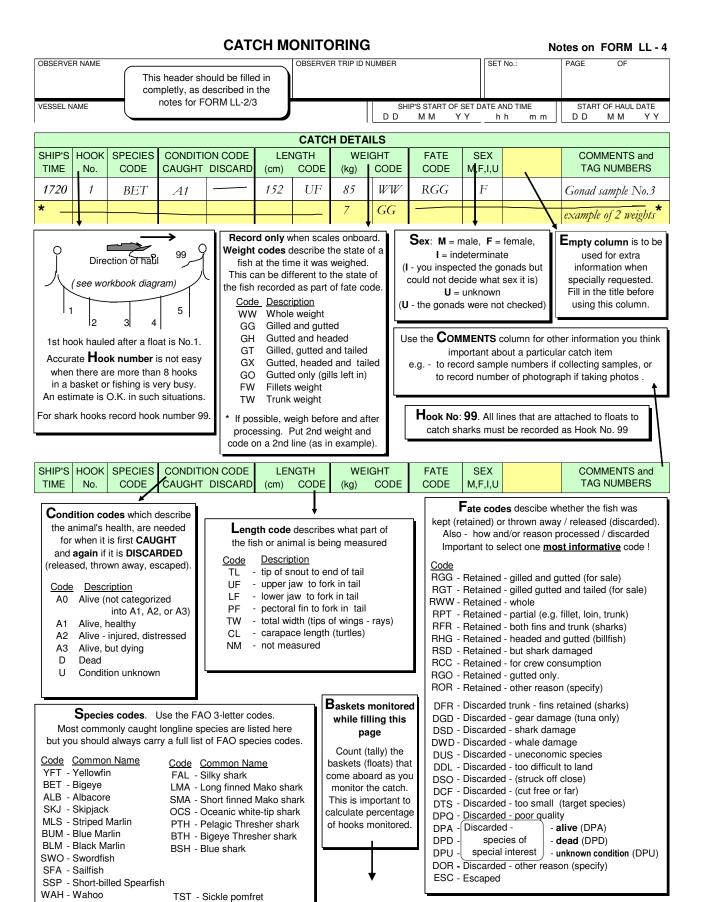
Record reasons that observer monitoring stopped for 30 minutes or more.

If appropriate record ship's to in column next to comm

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



## SPC/FFA REGIONAL LONGLINE OBSERVER FORM LL-4 **CATCH MONITORING** REVISED DEC. 2007 OBSERVER TRIP ID NUMBER OBSERVER NAME SET No. PAGE MEASURING INSTRUMENT SHIP'S START OF SET DATE AND TIME VESSEL NAME START OF HAUL DATE D D ММ ΥY D D ММ **CATCH DETAILS** SHIP'S HOOK SPECIES CONDITION CODE LENGTH WEIGHT FATE SEX COMMENTS and CODE CAUGHT DISCARD TAG NUMBERS TIME No. (cm) CODE CODE CODE M, F, I, U (kg) Baskets monitored Tally Total: area while filling this page:



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

BRZ - Pomfrets and Breams

N.B. Avoid using group codes

BIZ - Birds

DOI - Mahi mahi

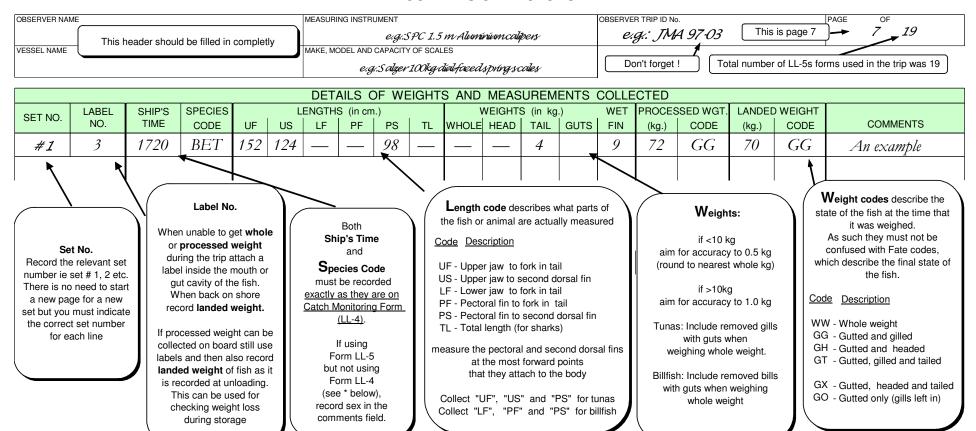
OIL - Oilfish LEC - Escolar

LAG - Moonfish (Opah)

RRU - Rainbow runner

	SPC/FFA REGIONAL OBSERVER CONVERSION FACTORS																FORM LL- 5			
REVISED DEC. 200 OBSERVER NAI	o7 ME					MEASURI	ng instr	UMENT					OBSERVER	TRIP ID No.					PAGE	OF
VESSEL NAME MAKE, MODEL AND CAPACITY OF SCALES S													SHIP'S STA	RT OF TRIP D	ATE		SHIP'S END	OF TRIP DAT	ΓE	
									/EIGH	TS AND	MEAS	UREME	ENTS C	OLLECT	ED					
SET NO.	SHIP'S TIME	LABEL NO.	SPECIES CODE	UF	L US	ENGTH:	S (in cm PF	1.)   PS	TL	WHOLE	WEI HEAD	GHTS (ir TAIL	kg.)	WET FIN	PROCES (kg.)	SED WGT. CODE		WEIGHT CODE		COMMENTS

#### **CONVERSION FACTORS**



Form LL-5 is to be used closely with the Catch Monitoring Form LL-4 but can be used to cover 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 on all catch. Usually only the more experienced and proven obsevers 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 LL-5.

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

#### SPC/FFA REGIONAL POLE-AND-LINE OBSERVER FORM PL-1 **GENERAL INFORMATION** REVISED DEC. 2007 **TRIP DETAILS** DEPARTURE PORT OBSERVER NAME DEPARTURE (SHIP DATE AND TIME) D D ΥY ММ h h OBSERVER TRIP ID NUMBER RETURN PORT RETURN (SHIP DATE AND TIME) D D ММ ΥY h h $m \; m \;$ **VESSEL CREW NATIONALITY** VESSEL NAME COUNTRY REGISTRATION No. FISHING MASTER VESSEL OWNER FLAG INTERNATIONAL RADIO CALLSIGN · How many ? OTHER CREW VESSEL CAPTAIN FISHING MASTER How many ? OTHER CHEW FISHING PERMIT OR LICENCE NUMBER(S) . How many ? OTHER **ELECTRONICS USAGE USAGE GPS** Y/N**DEPTH SOUNDER** Y/NTRACK PLOTTER Y/NSST GAUGE Y/N**USAGE** MAKE MODEL **COMMENTS** NEW Y / N Y / N NEW Y / N BIRD RADAR SONAR Y / NHow many? RADIO BUOY DIRECTION FINDER Y / N Y / N **GPS BUOY** Y / N DOPPLER CURRENT METER Y / N XBT (BATHYTHERMOGRAPH) VMS - 1 Y / N ALC Y / N / N/A intact System: VMS - 2 Y / N ALC Y / N / N/A ntact Phone # Phone # SATELLITE: Y / N MOBILE: **PHONES** Y / N COMMUNICATION **SERVICES** Fax # Email: OTHER FACSIMILE: Y / N EMAIL: Y / N WEATHER WEATHER FAX Y / N SATELLITE MONITOR Y / N INFORMATION SST Y / N Sea Height Phytoplankton Y / N Y / N SERVICES OTHER Y / N FISHING GEAR **SAFETY EQUIPMENT** USAGE No. of AUTOMATIC POLING DEVICES Y / NY / N / O PROVIDED FOR OBSERVER: LIFE BUOYS / LIFE JACKET MAKE MODEL SUITABLE SIZE: Y / N LIFE RINGS **AVAILABILITY** OBSERVATIONS / COMMENTS Easy Moderate Hard (circle one) EPIRBs (No) Total Exp. **LIFE RAFTS** 2 3 4 No. of people and 406 Inspection due date (D) or last date of inspection (L) (D-mm/yy or L-mm/yy) OBSERVATIONS / COMMENTS, OTHER GEAR, UNUSUAL USE OF GEAR USAGE CODES (for "USAGE" columns) (write brief notes here and a full description in trip report) ALL - used all the time in fishing TRA - used only in transit OIF - used often in fishing SIF - used sometimes in fishing RAR - rarely used BRO - broken now but used normally NOL - no longer ever used N.B. - fishing can be searching, bait or tuna fishing, investingating, etc.

### **Trip Details**

Observer Name: Print name in full - first name first and family name last (e.g. "John Masa").

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

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

<u>Departure Port / Return Port</u>: Record in both boxes even if it is the same port.

Departure (Ship date and time): Date and time that vessel let go of mooring ropes or hauled anchor to leave port.

Return (Ship date and time): The date and time when the vessel ties up or drops anchor in port.

(DD = Day) - (MM = Month) - (YY = Year) - (hh = hour) - (mm = minute)

For dates and times use SHIP'S DATES AND TIMES

### Vessel and Crew Nationality

<u>Vessel Name</u>: Full name of vessel including a number if appropriate - No abbreviations! (e.g. "The Lucky")

<u>Vessel owner, Vessel Captain, Fishing master</u>: Print full names whenever possible.

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

Flag: Name of country in which the vessel is registered (e.g. "Japan").

<u>International radio call-sign (IRCS)</u>: The call sign the vessel uses for communications. It is sometimes painted on the side of the vessel but do not confuse it with a license number which may also be painted on the side of the vessel. Note in your report if this vessel has not got a proper IRCS.

<u>Fishing Permit or Licence Number(s)</u>: If the vessel is registered in the coastal state, then print the fishing licence number issued by the coastal state. If the vessel fished under one or more bilateral access agreements, then record the fishing permit number issued by each of the coastal states. If the vessel fished under a multilateral treaty, then print the fishing permit number issued to the vessel under the multilateral treaty.

Captain and Fishing Master (under "Nationality"): Record the nationality of the Captain and/or the Fishing Master (eg: Taiwan).

Other Crew: For each nationality of crew (not Captain or Fishing Master) report nationality and how many of that nationality.

<u>Observations / Comments</u>: Record a few notes if you think there is anything uniquely different about this vessel or its crew. If you need to write more you should do so in a separate section of your trip report then only put a brief note here and a reference to a page number in your trip report.

### **Electronics**

\* new: empty lines are to record new equipment not listed. Write about new equipment in "Comments" and trip report.

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

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

<u>Comments (equipment usage)</u>: Make a note about each piece of equipment's use during the trip (sometimes, never, very old, out of order etc.) Make a comment if it is used in an unusual way.

very old, out of order etc.) Make a comment if it is used in all unusual way.

<u>Binoculars</u>: Number /Power .Write down the different powers of binoculars used and the amount in each category

(example : 2 x 8 x 50, 2 x 10 x 50 and 1 x 15 x 70)

VMS - 1 and VMS-2: Record system type (e.g.: FFA approved, Argos) for each "vessel monitoring system" used by the vessel.

<u>System type</u>: If only one system record next to VMS-1. If two systems record FFA approved at VMS-1 and the other next to VMS-2.

ALC make and model: Record manufacturer's name (e.g.: Trimble, Thrane and Thrane, Furuno, etc.) and the model, if possible.

Seal intact? A good (intact) seal is bright silver. A seal that has been interferred with has black crinkly lines through it.

Communication services: If vessel has satellite and/or mobile phone and/or fax and/or email address, record contact details.

<u>Information services</u>: Weather info may be faxed. Weather and/or other info may be sent in other ways to onboard computer monitors.

Circle Y or N to show if they get information on sea-surface temperature (SST), phytoplanton densities or sea height.

If they are receiving another type of information record that in "Comments" and write about it in your trip report.

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

### **Fishing Gear**

Automatic Poling devices: Record the number of automatic poling devices onboard the vessel.

Mention in the comments column if they were all being used or if they were still in good working order.

**Safety Equipment** (obtain as much information as possible without intruding)

<u>Life jacket</u>: if your own (or fisheries) circle "O". Else circle "Y" or "N" to show if vessel showed you one for your own use

Was it a good size? Was it (easy) available, available but not easy (moderate) to get to, or (hard) to find

<u>Lifebuoys/life rings</u> - count all to be found

<u>EPIRBs</u> - count total and count any with expired battery renewal dates.

<u>Life rafts</u> - find info on labels on life-rafts. If, **after careful check**, dates are not found, record "DND" for 'dates not displayed'.

### Observations / Comments, Other Gear, Unusual Use of Gear

Record notes if you think there is anything special about this boat or its crew compared to others.

Comment if equipment is not working, not used or used in an unusual way. Describe fishing gear if different to equipment you see on other longliners and record make, model, special characteristics and *usage* of this new gear.

If you have lots to write about (good) do so in your diary and in a special section in your trip report then only put a brief note here with a reference to page numbers in your diary and trip report.

	SPC/FFA REGIONAL POLE AND LINE OBSERVER  DAILY LOG  FORM PL - 2															
OBSERVER						VESSEL N	AME						OBSERVER	TRIP ID NUMBER		PAGE OF
SHIP'S TIME	LATITUDE	N S		E W	ACTIVITY CODE	SCH		SPECIES 1	BAIT	I ODECIEO 3	No. of BUCKETS	BEACON / PAYAO #		COMMENTS	STAF	RT OF DAY
TIIVIE	(dd <sup>o</sup> mm.mmm')		( ddd° mm.mmm' )	VV	CODE	A3300.	DETECT	SPECIES I	SPECIES 2	SFECIES 5	BUCKETS	17(17(0 ))				
															UTC DATE	UTC TIME
															ALL MUST	BE RECORDED
															BUCKETS OF	BAIT ONBOARD:
															2 Searching 3 Transit 4 No fishing - I 5 No fishing - I 6 In port - plea 7 Anchored in 8 Investigate fi 10D Deploy- rat 10R Retrival - ra 11 No fishing - o 12 No fishing - o 13 No fishing - o 14 Bait fishing 15R Retrieve - Ba	oreakdown bad weather use specify bait grounds ree school loating object it, FAD or payao aft, FAD or payao lirifting at day's end
															<ul><li>3 Drifting log, of</li><li>4 Drifting raft,</li></ul>	d paitfish } Free schools debris or dead animal FAD or payao ft, FAD or payao hark se specify) ociated
															1 Seen from ve	essel
AN	TING OBJECT ID SCHOOL IGHTINGS		DATING OBJECT AND CHOOL SIGHTINGS Example  Total		Anchored floo NO school)	(with	ects school) <u>Total</u>	(with NO	oating object  School)  Total	ets (no ancho (with	school)	Free sc	hools  Total	DID YOU OBSERVE ANY EVENTS TO RECORD ON FORM GEN-3 TODAY?  YES NO (circle one)	2 Seen from he 3 Marked with   4 Bird radar 5 Sonar / depth 6 Info. from oth 7 Anchored FAI	beacon n sounder ner vessel

		OBSERVERS DAIL! LOG	Titles of T CRITTE 2									
OBSERVE	ER NAME	First name first and last name last. Be sure to print full name.										
VESSEL N	NAME	Vessel's full name with no abbreviations. E.g., the "Captain Kalahari 3" should not be abbreviated to the	e "Capt. Kalahari".									
OBSERVE		This number is issued to you before you leave port and should be used on all forms. The number will not	change for the entire trip.									
ID N	IUMBER	Place at the top of every Form or other paper collected.										
PAGE	OF	Number each Form PL - 2 sequentially. Continue until trip is completed. The last page number will be number for the "of" field.										
		For example: If a total of 36 PL -2's forms were used during a trip, the fifth page used would be written	as "page 5 of 36"									
START OF												
SHIP'S DA		Write the date that the officers and crew use on the vessel  Write the time that the officers and crew use on the that is on the chir's cleak)										
SHIP'S TII	ME	Write the time that the officers and crew are using (the time that is on the ship's clock).  BUCKETS OF BAIT ONBOARD										
UTC DAT	E	Get the date from the GPS at the same time as you record the date the vessel is using.  At start of day assess amount of bait onboard available for fishing										
UTC TIME	3	Note that the date on the GPS (UTC) could indicate a different date. Still report this date.  (left over from previous day plus bait caught last n										
OTC THVII	ے	Get "UTC time" from the GPS at the same time as you record "Ship's time".  Note that "UTC time" (from GPS) will usually differ from "Ship's time" unless the vessel is using										
SHIPS TIM	/IE	Record the "Ship's time" every time the activity changes (as often as necessary). Record all codes and ot	per details for each activity									
CTIVITY		Record the Ship's time every time the activity changes (as often as necessary). Record an codes and of	ici detalis loi each activity.									
LATITUDI		Get this from the GPS and always record in degrees, minutes and minutes to 3 decimal places. This is ho	w it is usually shown on the screen									
	ITUDE		this from the GPS and always record in degrees, minutes and minutes to 3 decimal places. This is how it is usually shown on the screen.  e GPS shows seconds instead of 3 decimal places of minutes, then record the seconds but note that you recorded seconds in the comments column.									
La	titude	dd = degrees; mm = minutes; mmm = decimal minutes. If less than 10 degrees, always put zero in front of										
	ngitude	ddd = degrees; mm = minutes; mmm = decimal minutes.	,									
N/S and		Check the GPS. This is very important! Never forget to record N, S, E or W beside the position.										
A COTEIN HITEN	CODE	These codes are on the front. Only use one activity code at a time even if two codes seem to fit. Choose the best one										
ACTIVITY	CODE	If there are two possible activities for the same time, record the code for the main activity on the sheet, then comment on the other activity in the comments column.										
		"Spraying, Chumming or Poling" starts when the vessel starts trying to attract fish by chumming bait, using sprayers or other means										
(Activ	ity Code "1")	"Spraying, Chumming or Poling" ends when no more fish are being caught and vessel starts searching for another school or starts another activity (new Activity Code).										
		Small periods (minutes) of not fishing are common (when vessel moves to catch up with fish for example										
SCHOOL	ASSOC.	The "SCHOOL ASSOCIATION" codes are used to show if the school with a floating object, a marine m										
		If it is a free school then the "SCHOOL ASSOCIATION" codes show if it is feeding on a school of baitfi	•									
	DETECT	Use "HOW DETECTED" codes to <b>best</b> describe how your boat found the fish. If more than one code fit										
BEACON/P	'AYAO#	Record the beacon or payao number used to mark a log, payao or FAD. Write a 'B' before a beacon number used to mark a log, payao or FAD.	er and write a 'P' before a payao number.									
COMMEN	ITS	Make notes about anything that you think has something to do with information on the daily log.  If you need more room for writing this information put it in your diary and write "see Diary page no ??" in the comments.										
A IT FIGU	III C	If you need more room for writing this information put it in your diary and write "see Diary page no !!" I	i the comments.									
BAIT FISH	IING	When the activity and is "14" (Dait fishing) record the three most common anging that are cought. He	EAO species and as which should be provided									
SPECIES 1	1, 2, 3	When the activity code is "14" (Bait fishing) record the three most common species that are caught. Use Only use the family group codes provided if you are unable to identify the bait down to species level.	FAO species codes which should be provided.									
NO. OF BI	UCKETS	Record the total number of buckets of bait that are lifted on to the boat to put into the bait wells.										
NO. OF B	CCRETO	If the boat has run out of bait and so the boat changes activity, record "No More Bait" in the	comment column in the line that you record the activity									
	IMPORTANT N		•									
IVII OKTANT		Bait fishing ends (the next Activity starts with a new code) when the bait catching gear is pulled back on board again.										
LOATING	G OBJECTS A	AND SCHOOL SIGHTINGS	od davit di dotta ugami									
		A floating object can be a tree log drum FAD payago or any other floating debris										
	IMPORTANT N	NOTES! Fish not associated with a floating object are free schools. Free schools can be either "feeding object are free schools."	g on bait fish" or completely on their own "unassociated".									
Tally	Total	During the day make a stroke every time you see something. At the end of the d										
Floating of	objects (with n		·									
	ınder floating o	• • • • • • • • • • • • • • • • • • • •										
	ools	Make a stroke when you see tuna that has no floating object with it. These tuna										

	S	SPC/FI	FA RE				E-AND-L ETAILS	INE	OBS	ERV	ER			FC	ORM	PL - 3
REVISED DEC. 2007 VESSEL NAME					OBSERVE	R NAI	ME				OBSERVE	R TRIF	P ID NUMB	ER PAG	ìΕ	OF
SHIP'S I DD MM		^ /	SPRAYIN IUMMINO		START hh mr	n l	FINISH nhmm	FINISH No. POLES OPERATING MEASURING INSTRUMENT h m m CREW AUTO								
0014145150			OLING ti													
COMMENTS																
		TADCE'	T SPECII	EC					ОТИ	ED CI	PECIES					
SPECIES	FA		1 SPECII	CATO		SPECIES	I	FATE	EK SI	ECIES	CA	TCH		COI	MMENTS	
CODE	CO	DE	mТ		No.		CODE	C	ODE		mT		]	No.		
SKJ																
YFT BET																
DEI																
How many	tags w	vere reco	vered ?		TAG#			SPEC	ECIES		SEX		LENG	iTH (cm)	WEIGHT (kg))	
SPECIES	L	ENGTH		CIES	LENGTH	1	SPECIES	LENC			CIES		NGTH	SPEC		LENGTH
CODE 1		(cm)	21	DE	(cm)	41	CODE	(cn	<b>1)</b> 61		DE	(1	cm)	81 81	DE	(cm)
2			22			42			62	!				82		
3			23			43			63	1				83		
4			24			44			64					84		
5			25			45			65					85		
6			26			46			66	i				86		
7			27			47			67	,				87		
8			28			48			68	1				88		
9			29			49			69	1				89		
10			30			50			70	)				90		
11			31			51			71					91		
12			32			52			72	!				92		
13			33			53			73	ı				93		
14			34			54			74	1				94		
15			35			55			75					95		
16			36			56			76					96		
17			37			57			77					97		
18			38			58			78	l				98		
19			39			59			79	1				99		
20			40			60			80	1				100		
$\Sigma$ lengths			Σ ler	ngths		2	∑ lengths			∑ ler	ngths			∑len	gths	
			TA	RGET	SPECIE	S					OTH	IER	SPEC	IES		
		SI	KJ	`	YFT		BET									
Number Sam	pled:															
Sum of leng																
Average ler	igth:															

Use a new Form PL-3 for each continuous period of "SPRAYING, CHUMMING and POLING".

"SPRAYING, CHUMMING and POLING" includes any activity directly related to getting fish on board. Spraying, chumming and poling occurs only after the fish are found by searching or at an anchored FAD. Short times (minutes) not spraying, chumming or poling are still part of the same Activity Code "1" period.

There is no need to complete this form if no fish are caught, but **be sure** to record the details (start time, position, activity code "1", etc.) on Form PL-2 (Daily Log). Don't forget to correct the "START TIME" on this Form PL-3 if you then use it for the next period of "spraying, chumming and poling" activity.

### **Details**

VESSEL NAME	Full name. E.g., don't abbreviate the "Captain John Smith" to the "Capt J. Smith".
OBSERVER NAME	First name first, last name last, make sure to print full name.
OBSERVER ID NUMBER	This number is issued before you leave port and should be used on all forms.
	The number will not change for entire trip. Place wherever required on all forms.
PAGE OF	Number each Form PL-3 sequentially through trip. The last page number will be
	number for the "of " field. E.g., if a total 26 Form PL -3's were used, first form
	would be "Page 1 of 26", 16th "Page 16 of 26" and the last "Page 26 of 26".
SHIPS DATE	The date that is being used on the vessel by officers and crew.
SPRAYING,	START - When the vessel starts trying to get fish to bite by chumming bait, using sprayers
CHUMMING, by times:	It is very <b>Important</b> to record the start time exactly the same as you record it under
POLING	"SHIP'S TIME" when entering activity code "1" (Spraying, chumming and poling)
	on Form PL-2, the Daily Log.
	FINISH - When no more fish are being caught and the vessel starts another activity.
	The same time as "SHIP'S TIME" for start of next activity recorded on Form PL-2.
	Short times of no spraying, chumming or poling are included in the same period.
No. OF CREW POLING	This should be one count taken when the fishing activity is well established
	(not right at the beginning or right at the end).
No. OF FISH SAMPLED	Try to measure at least 50 fish per fishing period and up to 100 fish for big catches.
	Grab any fish, regardless of species or size, that is in your <b>random</b> sampling area.
MEASURING INSTRUMENT	And its size, e.g.: 1m measuring board, 1.5m calipers, 2m deck tape, etc.
COMMENTS	Use this especially to describe how you sampled and for notes about discards.

### Catch and Sample

SPECIES CODE	Use an FAO three letter code. Main species are listed on the bottom of the form.
	Important! Use a separate line to record discards amounting to more than just a
	few (5 or 6) fish. Give the reason for discard in the "COMMENTS" section above.
CATCH (mt) / (number)	Put the number or weight of fish whichever is appropriate, or both if available.
	All weights must be written as "mt" (metric tonnes). E.g.: 200kg is 0.2 mt.
FATE CODE	Shows what happened to the fish. Most common fate codes are in the table below.
NUMBER OF TAGS RECOVERED	Record all details, as requested, for any tags recovered in this set

## **Sampling**

SPECIES CODE (1-100)	Record species code for each fish you measure in the same order they are sampled.
LENGTH	The length of tuna (Upper jaw to fork length - UF) is measured from the tip of the
	upper jaw to the fork in the tail (caudal fork). Keep the mouth closed if possible.
$\sum$ LENGTHS (= sum of lengths)	Only add up the lengths in the column above. This is used for data entry checking.

Write the total individual species sampled in the appropriate boxes

B Sum of Lengths: Add all the length for each species and enter in the boxes under the headings

C Average Length: Sum of lengths sampled divided by sum of number sampled for each species. C = A / B (to the nearest cm.)

#### RWW - Retained - whole weight **Important points Fate codes:** RGG - Retained - gilled and gutted (kept for sale) Spread your sampling throughout the entire fishing period. RCC - Retained - crew consumption (onboard) 2 Always get a random sample. ROR - Retained - other reason (specify) 3 Do not let crew select fish for you even though they are trying to assist. DTS - Discarded - too small 4 Be sure to separately Identify Yellowfin and Big-eye when sampling DGD - Discarded - gear damage 5 Do not measure damaged fish. DUS - Discarded - undesirable species If using a deck tape, make sure fish is on the tape straight when measuring DOR - Discarded - other reason (specify) 7

- If using a deck tape ensure the "0" end of the tape is placed against a flat surface or has a nose block.
- 8 Record length to the nearest centimetre below down. E.g.: a 69.9 cm fish is recorded as 69 cm.
- 9 Make sure that you take good notes of other species and discards while you are measuring fish.
- Don't forget to note species code, especially when there is a change of species while you are measuring.

					SP		REGION			EINE			FOR	M PS-1	(pg 1)
REVISED NO	OV. 2007 P <b>DET</b>	VII C													
OBSERVE		AIL5				DEPARTUR	F PORT					DEPART	TURE (SHIP	'S DATE AND TI	ME)
OBOLITVE						DEI 7 II TOTT	ETOTT				DI		IM YY		m m
OBSERVE	R TRIP ID	NUMBER				RETURN PO	ORT				DI		URN (SHIP'S	S DATE AND TII 'hh	ME) m m
													1101 1 1		T
VES	SEL C	HARAC	CTERISTICS	<u> </u>		COUNTRY									
VESSEL NAME						REGISTI						ISHING PE	ERMIT(S) OF	R LICENCE NUM	IBER(S)
						1	MBER				_				
VESSEL OWNER						VESSEL FLAG		RADIO CALL							
No. of			No. of		Do OTHER				MAŁ	KE /	POWER		VESSEL		
SPEED			OTHER ONBOAR		TENDER E	BOATS	Y / N	NET SKIFF		,		h	CRUISING		
BOATS			AUXILARY BOATS	MOD		CATCHER ?	TION NUMBER	ENGINE ;	VE RANGE	COLOUR		hp	1		kts
	OPTER	<b>T</b> 100	WAKE	WOD	'CL	REGISTRA	I ION NOWBER	EFFECTI		S NM			VESSELS th PTER SERV		
CHAR	ACTERIS	IICS										(includ	ding this ves	sel)	
FISH	HING G														
POWER		MAKE		MODEL		PURSE	MAI	KE		MODEL		AIL CAPAC of first brail			
BLOCK:						WINCH:						BRAIL 1	,		mT
NET -			NET -		Metres	NET -	-	NET -			- 1	AL CAPAC			
MAX. DEPTH:		Y F	MAX. LENGTH:		Yards Fathoms	No. of STRIPS:		MESH SIZE (of main bod		CM II		second bra BRAIL 2	aii)		mT
						Į.		1			-				
	NG TYPE RIPTION:														
ELE	CTRO	NICS				USAGE						U	SAGE		
				GPS	Y/N				D	EPTH SOUND	ER Y/	N			
				G. 0			-			2 000.12.	-				
			TRACK P	LOTTER	Y/N					SST GAU	GE Y	N			
						USAGE	M	AKE		MODEL			COMN	MENTS	
NEW -					Y / N										
/VL VV -															
NEW -					Y / N										
NEW -					Y / N										
			BIRD	RADAR	Y / N										
				SONAR	Y / N										
			CDC	BLIOVE	Y / N						How				
			GPS	BUUTS	f / IN						many ?				
		E	CHO SOUNDIN	G BUOY	Y / N						How many ?				
		NET DEP	TH INSTRUMEN	ITATION	Y / N	1						-	-		
			STROWEN			-					-				
		DOPF	PLER CURRENT	METER	Y / N	<u> </u>									
	VMS - 1	System:			Y / N	ALC					Seals intact	Y / N	/ N/A		
		System:									Seals				
	VMS - 2	-			Y / N	ALC					intact	Y / N	l / N/A		
	COMM	UNICATIO	PHONES	SAT	ELLITE:	Y / N	Phone No.			MOBILE:	Y / N	Phone No.			7
		RVICES			CIMIL E.	V / N				ENANII.	Y / N				
			OTHER	FAC	SIMILE:	Y / N	Fax No.			EMAIL:	f / IN	Email:			
		RMATION	WEATHER	WEAT	HER FAX:	Y / N	SATELLIT	E MONITOR	Y / N						
	SE	RVICES				Phytoplankt	on	Y / N	SST	1	Y / N	Sea Heig	ht		Y / N
ı			OTHER	Υ /	N url:										
			EDWATIONS		ENTO : C	LUED OF	AD //!!!!	I HOT OF	)F 45		110	ACE OC	DEC //-	"USAGE" c	oluma = \
		ORS	ERVATIONS ( write br				<b>AR</b> / <b>UNUSU<i>A</i></b> cription in trip		aEAK				,		•
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													ed only in ed often ir		
														mes in fishin	g
											R/	AR - rare	ely used		_
													ken now longer ev	but used nor	mally
													-		
														searching, setti investigating, e	

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'.

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

OBSERVER NAME Print first name and family name in full and in correct order (e.g. "John Masa" and not "Masa, John").

OBSERVER TRIP ID No.

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").

**DEPARTURE (SHIP'S DATE and TIME)** } Print date using "day day/ month month / year year" format.

**RETURN (SHIP'S DATE and TIME)** } Print time using 24 hour "hour hour: minute minute" format.

USE SHIP'S TIME (and DATE)

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

DEPARTURE PORT / RETURN PORT: Record in both boxes ....... even if it is the same port.

also read notes below

N.B.: an observer trip officially starts and ends only when the vessel on which the catch is actually observed is boarded and disembarked.

- If boat is met at sea "Departure Date and Time" is day of transfer from transit vessel to observed boat. "Departure Port" is "At sea".

Partial trips

Multiple trips

### **Vessel Characteristics**

VESSEL NAME	Full name with no abbreviat	ions. E.g.: a vessel with the name "Captain Paul John Smith" should not be abbreviated to Capt. P.J. Smith.						
COUNTRY	Number given by the Countr	y (Flag State) to where the vessel is registered.						
REGISTRATION NUMBER	This can be found in the reg	istration papers of the vessel. Do not confuse this with FFA Regional Registration Number						
FISHING PERMIT	Record all numbers of current	ers of current fishing licenses on board. This may include more than one license. There should be at least one on board if						
/ LICENSE NUMBERS	he vessel fishes in any EEZ	waters. Note country the license comes from in brackets alongside number. E.g.: K3453789H (Kiribati).						
VESSEL OWNER	Name of Company or Person	who owns the vessel. This should be in the Registration Papers.						
VECCEL ELAC	Country where vessel is regi	stered. E.g.: Japanese longliners are usually registered in Japan so their Flag State is Japan.						
VESSEL FLAG	But sometimes a vessel comes from one country and registers in another so has a different "Flag State" - known as a flag of convenience.							
INTERNATIONAL	This is the radio signature th	signature the vessel uses when contacting other vessel radios or shore based radios.						
RADIO CALL SIGN	The call sign usually should	sually should be the main number on the <u>hull</u> or side of the vessel. Try to confirm this before recording it.						
NO OF SPEED BOATS	Number of speed boats. Do	n't count tow boats, or a boat that looks like a speed boat but is only used as a tow boat.						
NO OF AUXILIARY BOATS	Count only the tow boats and	d light boats that the vessel keeps onboard. Don't count a speed boat if it is already counted.						
Do OTHER TENDER BOATS	Boats (ranger boats, light bo	oats, light boats, reefers, etc.) not carried on board but work with the catcher boat as a regular part of the fishing strategy.						
WORK with CATCHER?	N.B.: do not include such bo	oats, operating as light boats, in the count of "Auxiliary boats onboard". Describe operations in trip report.						
NET SKIFF ENGINE	The brand of the engine used	l in the net skiff and the power (horsepower - hp) of the engine.						
MAKE / POWER	Get this from the skiff driver	: E.g.: Caterpillar 3408 (400hp)						
VESSEL CRUISING SPEED	Ask the captain for the cruis	ing speed of the vessel. Remember it is not the top speed.						
HELICOPTER MAKE/MODE	Brand name	and model of the helicopter. Ask the pilot if you need to.						
REGISTRATION NO.	Registration	Registration No. of the helicopter. Written on the side or pontoons or ask the pilot for it.						
EFFECTIVE RANGE of HEL	COPTER The distance	The distance the helicopter can fly from the vessel and return safely, without running out of fuel.						

### **Fishing Gear**

COLOUR of HELICOPTER

POWER BLOCK		Brand of main power block on the vessel. The model of the block.	If these can not be seen, ask the captain, engineer or winch driver.						
PURSE WINCH	- Make - Model	Brand of main purse winch on the vessel. The model of the winch.	Only fill in this information if sure it is correct.  If unsure, record the information in your written report only, with a note.						
MAX. NET DEPTH		Deepest depth of the net wall when it has been set.	M = Metres; Y = Yards; F = Fathoms.						
MAX. NET LENGTH		The length of the net when it has been set.  Make sure you circle the correct unit used on the vessel for net measurer							
NET - No OF STRIPS		Each net is made up of strips of netting sewn together to create the depth of the net (e.g.: if the depth of the 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, taking strips away makes it shallower). How many of these strips make up the net? Ask the deck boss or engineer for this information.							
NET MESH SIZE OF MAIN SECT		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							
CAPACITY OF BRAIL		The capacity in <b>metric tonnes</b> . This is needed for the observer to estimate the catch brought onboard.  If there is a second brail onboard (mostly on Japanese vessels) also record capacity of second brail.  N.B.: call these BRAIL 1 and BRAIL 2 - referred to in PS-4s							
BRAIL TYPE		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.  A full description of the brail type should be included in the observer's written report.							

Main colour or colours of the helicopter

### Electronics - YES / NO - 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.

<u>USAGE</u>	use codes (bottom front of form) to show how much each piece of equipment, for which "Y" is circled, is used
MAKE & MODEL	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.
VMS - 1 and VMS - 2	Record system type (e.g.: FFA approved, Argos) for each "vessel monitoring system" used by the vessel.
System type:	If only one system record next to VMS-1. If two systems record FFA approved system next to VMS-1 and the other system next to VMS-
ALC make and model	<b>:</b> 2.
Seal intact ?	Record the manufacturer's name (e.g.: Trimble, Thrane and Thrane, Furuno, etc.) and the model of the ALC unit, if possible.
INFORMATION	Vessels may access "Fishery information services" to get instant or daily information on oceanographic features that affect fishing.
SERVICES	Commonly accessed info., includes phytoplanton density, sea-surface temperature (SST) and sea height. Describe in written report.

### Observations / Comments, Other gear, Unusual use of gear

Record notes if you think there is anything special about this boat compared to others. Comment if equipment is not working, not used or used in an unusual way. Describe fishing gear if different to equipment you see on other longliners and record make, model, special characteristics and usage of this new gear.

If lots to write about (good) do so in diary and in a special section of the trip report. Only put brief note here with a reference to page numbers in diary and trip report.

### SPC/FFA REGIONAL PURSE SEINE OBSERVER **FORM PS - 1** (pg 2) **GENERAL INFORMATION** VESSEL NAME OBSERVER TRIP ID NUMBER OBSERVER NAME WELL CONTENTS (if wells also used to store fuel, water or some item, other than fish, at some time in trip) WATER **FUEL** CAPACITY CAPACITY WELL No. P or S COMMENTS WELL No. P or S **COMMENTS** (mT) (mT) **OTHER TOTAL POSSIBLE FISH STORAGE CAPACITY (in metric tonnes):** $\mathsf{mT}$ **CREW** NATIONALITY NAME YRS.EXP COMMENTS CAPTAIN No. ? NAVIGATOR / MASTER MATE **CHIEF ENGINEER** ASSISTANT ENGINEER **DECK BOSS** соок HELICOPTER PILOT SKIFF MAN WINCH MAN Р **CREW** NAME YRS.EXP NATIONALITY **CREW** NAME **NATIONALITY** Total: **←** TOTAL NUMBER OF CREW (include Captain and officers) **SAFETY EQUIPMENT** Y/N/O No. of PROVIDED FOR OBSERVER: LIFE JACKET LIFE BUOYS / LIFE SUITABLE SIZE Y/NRINGS AVAILABILITY (circle Hard Easy Moderate one) EPIRBs (No) Total Exp. 2 3 4 LIFE RAFTS No. of people and 406 Inspection due date (D) or last date of inspection (L) (D-mm/yy or L-mm/yy)

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

# $\begin{tabular}{ll} WELL\ CONTENTS & (if wells also used to store fuel, water or some other item\ at some time\ in\ trip) \\ \end{tabular}$

FUEL	Record all the well numbers and capacity of the wells which contain fuel under the "FUEL" section.
WATER	Record the well numbers and capacity of the wells which contain water under the "WATER" section.
OTHER	Record the well numbers and capacity of the wells which contain other items (not fish) under the "OTHER" section.
WELL No.	Record the vessel's well number here. Ask the Chief Enginner or have a look at the vessel's well plan.
P or S	Indicate whether the well was on the port (P) or starboard (S) side.
WELL CAPACITY	State the fish carrying capacity of this well in metric tonnes. Ask the Chief Enginner to help you if necessary.
COMMENTS	If wells contain items other than fuel, water or fish state what those items are in the "Comments" section.
COMMENTS	If wells start with fuel or water but are then cleaned fish storage, state this in the comments column (include dates).
TOTAL POSSIBLE	Add up the total possible fish storage capacity for all the vessel's storage wells put together, whether or not the well is also sometimes
FISH STORAGE CAPACITY	used for other things (fuel, water, etc.). Place the vessel's total fish carrying capacity in metric tonnes here.
(in metric tonnes):	This is important information. Ask to see the vessel's well plan or get the Chief Enginner to help you if necessary.

### **CREW**

NAME	(for listed specialist positions)	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.  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".  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.  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.
	(for non-specialist positions)	For each crew mewmber not working in a specialist position correctly record the name, number of years of experience and the nationality in the lower crew sections.
	EXPERIENCE RS.EXP)	Record the number of years experience the crew member or officer has <u>in this position</u> . 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".
NATIO	NALITY	Nationality should be available on the crew list. Pay special attention to the nationality of any Pacific Islanders amongst the crew.
СОММ	ENTS	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.
Lic	ense No. (Captain's)	To be recorded if readily available but not necessary if obtaining it will in any way hinder other observer activities on board.
_	L NUMBER OF CREW le Captain and officers)	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!

## SAFETY EQUIPMENT (obtain as much information as possible without

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

## COMMENTS or DRAWING of WELL PATTERN

	SPC/FFA REGIONAL PURSE-SEINE OBSERVER  DAILY LOG  SED NOV. 2007 SERVER NAME OBSERVER TRIP ID NUMBER PAG																FORM PS - 2
						VESSEL NA	AME						OBSERV	ER TRIF	PID NUMBER		PAGE OF
SHIP'S TIME	LATITUDE (dd°mm.mmm')	N S	LONGITUDE (ddd°mm.mmm'	E W	EEZ CODE	ACTIVITY CODE	W (kts)	IND (°)	SEA C-S-M-R-V	HOW DETECT	SCHOOL ASSOC	FAD / PAYAO #	BUOY#		COMMENT (and Set No from		START OF DAY SHIP's   SHIP's
	,						, ,								,	· ·	DATE TIME UTC UTC
																	DATE TIME
																	ALL MUST BE RECORDED
																	ACTIVITY and HELICOPTER CODES
																	1 Set ← record 2 Searching FAD, payao
																	3 Transit or buoy number 4 No fishing - Breakdown if any
							1										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
																	<ul> <li>11 No fishing - Drifting at day's end</li> <li>12 No fishing - Drifting with floating object</li> </ul>
																	13 No fishing - Other reason (specify) 14 Drifting -With fish aggregatting lights
																	15R Retrieve radio buoy 15D Deploy radio buoy Changing
																	16 Transhipping or bunkering buoys?  H1 Helicoptor takes off to search use first line
																	H2 Helicopter returned from search for 15R and next for 15D
																	HOW DETECTED  "Seen from helicopter"
																	2 Seen from heliconter Use when vessel gets
																	3 Marked with beacon to the school of tuna that helicopter either
																	5 Sonar / depth sounder 1. reported on; or 6 Info. from other vessel 2. dropped buoy on
																	7 Anchored FAD / payao (recorded)
							<del>                                     </del>										SCHOOL ASSOCIATION (tuna)
						<del>                                     </del>											1 Unassociated
																	2 Feeding on Baitfish 5 Free schools 3 Drifting log, debris or dead animal
							-										4 Drifting raft, FAD or payao 5 Anchored raft, FAD or payao
															DID YOU OBS	SERVE ANY	6 Live whale 7 Live whale shark
	ING OBJECT AND DOL SIGHTINGS		Anchored fl (with <b>NO</b> school	ol)	(with s	ts school)	,		e floating O school)	(wi	(no anchor th school)		Free so	chools	EVENTS TO ON FORM GET	RECORD	8 Other (please specify) 9 No tuna associated
Tally	Example <u>Total</u>	Tally		Tally	/		Tally			Tally			Tally		YES NO	Diary	Activity code 3 - "Transit"
HI	6		No.			No.			No.			No.		No.	(circle one)	pg#	Use this code carefully - see form change notes in front of workbook. Transit cannot be used for any fishing related activity.

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

<u>Observer Trip ID Number</u>: 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").

<u>Ships Time</u>: 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.

<u>Latitude</u>, <u>Longitude</u>,  $\underline{N}$ ,  $\underline{S}$ ,  $\underline{E}$ ,  $\underline{W}$ : 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")

<u>EEZ Code</u>: 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.

<u>Wind</u> (<u>kts</u>) (°): 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 =  $2 \times m/sec$ ) 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.

<u>Beacon / payao #</u>: Record the number off any beacon used to mark a log, payao or FAD. Record number of an anchored FAD or payao whenever a boat investigates or sets on it. Write a "B" before a beacon number and write a "P" before payao numbers.

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

<u>Floating object and school sightings</u>: Through each day try to keep count of 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 significant debris.

<u>Tally</u>: 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.

<u>Page of</u>: 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 the 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").

<u>Start of day</u>: At the start of each day you must match the date and time on the ship's clock (and observer's watch) to the UTC time and date as read from the GPS.

<u>Ship's Date</u> and <u>Ship's Time</u>: is the date and time used by crew on board normally. The observer's watch should be set to this date and time as soon as they board.

<u>UTC Date</u> and <u>UTC Time</u>: is standard date and time that scientists use to make corrections to Ship's date and time when it is used incorrectly, as it often is. Once a day, record Ship's and UTC date and time at the same moment. UTC time is normally got from the GPS.
 Remember that UTC date is **sometimes** different from the 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 activity code "1", "8" or "9" also use school association (tuna) and how detected codes, otherwise the school association (tuna) and how detected code fields must be dashed!

Use codes 15R and 15D whenever a vessel retrieves or deploys a buoy set on a FAD or log - if changing buoys use 15R on one line and 15D on the next and record both buoy numbers. If using code 16 remember that transhipment includes any transfer between vessels Helicopter codes: Use whenever helicopter takes off or lands. Comment to describe main activity for each take off and each landing - e.g.: search, set buoy, visit other (named) vessel, arrive from other (named) vessel, visit shore, rescue seaman, etc.

<u>How Detected</u>: Use this code to best show how investigated tuna or object was found.
 If more than one method used, use code that shows what <u>first</u> 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.)
 Depth sounder/sonar - **do not** use *code* 5 when investigating an already found object or fish Anchored FAD / payao - use *code* 7 only if FAD/payao found because its position is recorded

<u>School Association</u> (*tuna*): Use the "School Association" code that best describes whether <u>tuna</u> being targetted are with floating object, animal, feeding on baitfish or unassociated. If it is an unusual **tuna** association please comment and make notes in your diary.

<u>Did You Observe Any Events To Record On Form GEN-3 Today?</u>

Circle **Yes** if any infringements, as listed on Form GEN-3, were observed. Write notes on Form GEN-3 and in diary; record your diary page No. on this PS-2 form. If there was no incident for the day circle **No**.

		SPC/F	FA REC	GIONAI SE	L PUI r de'			E OB	SER	VER					FOR	M PS	3 - 3
REVISED NOV. 2007 OBSERVER NA					VES	SSEL N	AME						F	AGE		OF	
															SET No.)		
OBSERVER TF	RIP I.D. NUM	BER		START			AND TIME					START	OF SET	DATE A	ND TIME		
				RVER: PS-2)	DD	MM	T YY	hh	mm	v	ESSEL L	.OG:	DD	MM	YY	hh	mm
CET CEO	HENCE	PIMEC	(SEE	F3-2)													
SET SEQ		START OF	SET	BEGIN PUR	SING	E	ND PURS	ING		BEGI	N		END		ΕN	ID OF S	ET
EVENT	:	(SKIFF OF	F)	(WINCH O	N)		(RINGS U	IP)		BRAILI	NG		BRAILING	3	(SKIF	F ON BO	DARD)
TIME:																	
CUMULAT	TIVE CA	TCH ON	BOARD	(mT)	TOTAL	ob	•			NEV	V obs			SU	M OF A	ALL BR	AILS
	ARD TOTAL	aba		+ (b)	TONNAG	BE		_ =	(c)	ONBO	ARD			_	BR	AIL	
BEFOR	RE THIS SET	ves			RETAINE THIS SE		S .		BS	((a) + (				sec PS-		1	
	evious PS-3				essel ton		Y/1			TUNA	THISS	ET			BR	AIL	
+ / - fish transfe	ers onto or of	f vessel betv	veen sets	only from	triis one	e set ?		tot	al catcl	h minus	other spe	cies	m7	Г			
TOTAL	S	KJ - YFT	- BET	OTHE				-D\ /ED		\/50	051.100						
SPECIES	SKJ	YFT	BET	SPECIES CODE	FATI COD		(mT)	ERVER NUMBE	≣R	(mT)	SEL LOG NUMB	ER		CON	MENTS		
YES / NO																	
approx. %																	
OBS (mT)																	
DISCAR	DED S	KJ - YFT	- BET														
YES / NO	SKJ	YFT	BET														
FATE	720	7.7.7	DEI														
OBS (mT)																	
FATE																	
OBS (mT)																	
VES (mT)	SKJ	11-1	BET														
RETAIN	ED S	KJ - YFT	- BET														
FATE	RWW	RWW	RWW														
OBS (mT)																	
VES (mT)	SKJ	YFT	BET														
LARGE	TU	JNA IN C	САТСН														
> 80 cr	ا <sub>ن</sub> n	% of wgt.	of No.	<b></b>	0.170						_			/D		0 4 7	Man.
(>9 kg/>2)	approx (q105	all tuna	NO.	TOTAL (all sr	CAIC pecies,	H			Ho	TAG w man					ord sp. ow in c	-	
SPECIES:	de	9	6	including	discard	ds)	ı	mT	wer	e recov	rered ?			Fill ta	g recov	ery for	ms!)
COMMENTS			l														
SKJ Skipjack	(	AB	SPEC U Sergeant	TIES CODE major	S	ocs	Oceanic	whitetip			RWW	Retaine	FAT:	E CODE weight	ES		
YFT Yellowfin BET Bigeye t	n tuna	AM	X Amberjac R Barracud	k		BSH FAL		aler shark	<		RHG RGG	Retaine	d - heade d - gilled	ed and gu			)
		BA	T Batfishes			MAK	Mako sh	ark			RPT	Retaine	d - partia	l (e.g. fil	et, loin)	,	
FRI Frigate t BLT Bullet tu		CX DO				SPN THR	Hamme Threshe	rhead sha r sharks	arks		RCC ROR		d - crew d - other		,	oard)	
KAW Kawaka	wa	RR FLF	U Rainbow File fish	runners		RHN MAN	Whale s Manta ra				RFR DFR	Retaine	d trunk - f ed trunk -	ins retair	ed (shar		
ALB Albacore	е	TR	Trigger fi			MOX	Sunfish	~,			DTS	Discard	ed - too s	mall (tun	a only)	• ·	
WAH Wahoo			C Drummer D Mackerel			SQU FRZ	Squid Frigate a	and bullet	tuna		DGD DVF		ed - gear ed - vess			y)	
BUM Blue ma	ırlin	PS LO	C Man - o - B Triple tail			TUN TRE	,	nidentified (unidentif	,		DUS DSD		ed - unwa ed - shark			ESC	
BLM Black m	arlin			/ ocean brea	ms	UNS		identified	,		DWD	Discard	ed - whale	e damage		Esca	ped
MLS Striped I SFA Sailfish	marlin		larina mama	nal and turtle	codes	]					DPQ DPA -	Discard Discard	ed - poor ed		(DPA)		
SSP Short bil SWO Broadbil	lled spearfish Il swordfish	ı l		e on Form GE		BIZ	Bird (uni	identified)	)		DPD - DPU -	- specia	ies of I interest		(DPD) own con	dition (D	PU)
5 5.000bii						1					DOR		ed - other				-,

			PURSE SEINE LUG - SET DETAILS Notes on FORM PS-3
lm	(A PS-3 f portant		out for the first and every set (recorded as <i>activity code</i> 1 on PS-2) - whether monitored or not, even if a skunk set.) occassion 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 a skunk set.)
OBS	SERVER NAME		Print first name first and last name last. E.g.: "John Smith" not "Smith John". Print clearly!
VES	SSEL NAME		Full unabbreviated name. E.g.: a boat with name "Captain Paul Catchit" should not be abbreviated to Capt. P.Catchit.
PAC			Number each PS-3 form from start until end of trip. Because one PS-3 is used for every set this number is also the set No.
	SERVER TRIP I	D No	This number is the same on all forms for a single observer trip.
		Observer (PS-2)	The exact date and time that the observer recorded for this set on the PS-2
	ART of SET FE and TIME		
DA		Vessel (logsheet)	The exact date and time that the vessel has recorded for this set in their Regional Purse Seine Log Sheet.
	BEGIN SET (SI	KIFF OFF)	Exact same time as recorded on the daily log (PS-2) and in the "Observer Start of Set Date and Time" section, above.
NCE	BEGIN PURSIN	NG (WINCH ON)	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.
SET SEQUENCE	END PURSING	(RINGS UP)	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.
T.S	BEGIN BRAIL	ING	Record the time the vessel starts the brailing process. This will have been recorded on the PS-4 form.
$\mathbf{z}$	END BRAILING	G	Record the time when the vessel finishes brailing (put in a dash if no fish are caught).
	END SET (SKII	FF ONBOARD)	When the skiff comes on board the set is over. Record the time. Also remember to record the activity change on PS -2.
(froi	m both the observe and the vessel (ves st include fish from	ONBOARD er (obs) records s) records)	Observer cumulative total provides an up-to-date total of the catch on board. Vessel total gives a useful comparison.  (a) Go to box (a) of this PS-3 form and copy in the total catch before this set. Find this in box (c) of the last PS-3 form.  (b) for box (b) observer adds together the weights of all species on PS-3 that have a fate code starting with "R".  To get vessel total add tonnes of each species of retained catch on the logsheet line for this set. If, on the one line, vessel has only recorded catch from one set circle <b>Y</b> but if two or more sets have been combined in a single logsheet entry, circle <b>N</b> .  (c) Add box (a) and box (b) together to get a new total catch on board after this set. Record it in box (c) of this PS-3.
OBS	S. TOTAL TUNA	THIS SET	All tuna caught, including discards. It is the total catch (from brail calculations) minus the total of all other species.
SUN	M of ALL BRAIL	S (see PS-4)	After calculating the total number of brails on PS-4S transfer your answer here.
	TOTAL	YES / NO approx. % OBS (mT) VES (mT)	Observers are asked to give an approximate but careful eye estimate of each tuna species that is in the catch as follows:  1. Note whether each species is in the catch with a simple yes or no in the approriate field  2. Give a careful approximation of the percentage (by weight not numbers) of the total catch for each species that is in the set  3. Convert percentages to metric tonnes and record in the "OBS (mT)" fields for each species.  4. Copy the weights, as recorded for each species in the vessel logsheet, into the "VESS (mT)" fields  (vessel weights may need to be converted to metric tonnes if the vessel uses another unit of weight, e.g.: short tons)
SKJ / YFT / BET	DISCARDED	YES / NO FATE	For each species note if any were discarded for any reason with a simple yes or no in the approriate field  If a yes has been recorded for a species indicate the reason it was discarded by using a suitable "Fate code"  If some fish of a single species are discarded for different reasons record each reason (fate).  E.g.: In the same set, some SKJ could be DTS and others may be DGD. If more than two fates for one species record the fates with most fish discarded in the two available fields for SKJ/YFT/BET and the others in the "Other Species" section.  Always use only one (the best - most informative) "fate code" when two codes could apply to the same group of fish.  If tuna ESCAPE from net, record species = SKJ, YFT or TUN (if mixed or unknown); fate = "ESC"; and estimate of mT.
SK		OBS (mT) VES (mT)	For each species and fate record the metric tonnes discarded. Record in the observer trip report how estimates are made.  Check logsheet and copy weight of each species that vessel has recorded as discards. If no discards are recorded, enter "0".  (only record a dash if unable to check logsheets then also explain in comments and the observer trip report)  OBS (mT) = TOTAL OBS (mT) - DISCARDED OBS (mT).  VES (mT) = as recorded on logsheets
	RETAINED	OBS and VES (	Note - in rare trip that some catch is RETAINED for other reasons (e.g.: RCC, RGG) record under other species
	IN CATCH > 80 cm	approx $\frac{\%}{\text{No.}}$ n (> 9kg / > 20lb)	It is very important to estimate the percentage of the weight of the total catch that is made up of large tuna. If possible (if not so many large tuna in the catch) try to estimate the number of large tuna that are in the set. Else record a dash. Tuna are considered large if they are over 9 kg (20 lb), which is approximately 80 cm long - use this as a guideline just.
	SPECIES CODE	 E	Record every species that lands on deck with the three letter FAO species code.
CIES	FATE CODE		Use fate codes provided to say what happened to each species landed.  Remember that a species may be split into groups each with a different fate code.  REMEMBER - use only one (the best and most informative) code for each line.  REU DTS 0.5 mT
PE			The state of the s
OTHER SPECIES	OBSERVER	(mT)	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 of DOL and 0.04 mt WAH
OT		Number	Only record number if an accurate count is possible. Large amounts are recorded in "mT". If possible record both.
	VESSEL LOG	(mT) Number	Copy the figures recorded by the ship's officers on the Vessel Logsheet, for this set.  Place a dash in the column if they have not recorded the species.
то	TAL CATCH		Everything that was caught in the net and lifted onboard - from brail count calculations on PS-4. Record in metric tonnes
	How many tags	were recovered ?	Number of tags found from the set. Look out for tags on tuna, billfish, sharks, turtles, birds, etc.
TAGS	TAG #, LENGTH	SPECIES, , WEIGHT EX	When a tag is recovered, record the <u>tag number</u> and the <u>species</u> name.  Measure the correct <u>length</u> (see form PS-4). If possible, <u>weigh</u> .  If possible, obtain the <u>sex</u> (cut it open <u>if appropriate</u> ).
		EA	Note tag colour, tagging organisation and any unusual features about the specimen condition in comments section

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		NOV. 2007 VER NAMI	E						VESSE	L NAM	E								(	OBSE	RVER	TRIP ID	NO.			PAGE		OF		
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IILS	C		ne - see PS-1 S ON SAMPL		PROTO	COL					SAIVIPL	E:	(1,	2, 3)		(to	tal) Iro	m ead	III DHA	IIL						NTS FOR				
SAMPLING DETAILS																						LF - LC TW - TC TL - TC	WER J TAL W	IAW TO F	FORK I PS OF TO EN	N TAIL (TI IN TAIL (B WINGS - ID OF TAII JRTLES)	ILLFISI RAYS)	H)	O FORK	IN TAIL)
SAI		allies:	Full (1)		7/8	8 brails	<b>(2</b> )			3/4	brails (	(3)		2	2/3 bra	ails (4)		1/2	(5)		1/3 (6)	1/4	(7)	1/8 (8		TOTAL BRAILS			I OF RAILS	;
	BRAIL		No.				No.					No.		-	F	Vo.			No.	$\dashv_{f}$	No.	No	).	No.						back form
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2					22					42					6	62					82					102				
3					23					43					6	63					83					103				
4					24					44					6	64					84					104				
5					25					45					6	65					85					105				
6					26					46					6	66					86					106				
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8					28					48					6	68					88					108				
9					29					49					6	69					89					109				
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### LENGTH MEASUREMENT

Observer Name	Put first name first and last name (family name as it would be recorded in a passport) last.
Vessel Name	Full name of vessel (no abbreviations)
Observer Trip ID	Use number assigned to the observer by the Observer Programme, for this trip. E.g.: AZA 03-01
Page of	Number all the PS-4 forms in sequence from the start until the end of the trip.
Start Set Date & Time	Becord the date and time that the ship is using exactly as it is recorded on Forms PS-2 and PS-3

### **SAMPLING DETAILS**

Sample type	- Normal	For standard species and length composition samples, tick normal. Species and size must be randomly collected.  Target an average of 5 fish from every brail. If not possible then make sure average number is steady all through the set.  For normal sampling do not measure fish collected from the net during net rolling and stacking.
(tick in only one circle)	- Other	If sampling is not <u>normal</u> species and size composition (usually on request), tick "Other" and explain what the other is. Examples of "other" could be: BET / YFT composition; large only YFT; all discards; discards-too small; etc; only BET; etc; only bycatch; only BRAIL 1; etc. (also see 10 below).
Brail times (start	t and end)	Record when first brail came onboard (start) and when last brail came onboard (end) for transfer to Form PS-3.
Which brail size	?	Usually BRAIL 1., but sometimes a vessel uses two different sized brails (see PS-1). Sample one brail size on one form.If two brail sizes are used: always prepare two forms, even if only measuring from one brail size, as the "sum of all brails" must be calculated for each brail size separately! (Note: it is preferable to sample both brail sizes on to their own forms)
Forms used this	sample:	Record forms used only for this sample as "number of the form used" out of "total used". Eg.: "1 of 1", "1 of 2", "2 of 3".
Target samples p	oer brail	If "normal" sampling record No. of fish observer tried to measure from each brail. If not normal sampling record a dash.
Measuring instru	ument	Record whether callipers, flat ruler or deck tape was used. N.B do not use tape measures.
Comments on P	rotocol	Explain why you sampled as you did, especially if you tick "Other" or collect two samples. Were their any problems? If conditions allow, competent observers are encouraged to maintain two forms during brailing of mixed tuna sets - one for "normal" species composition and the second for "other", non-SKJ tuna species composition.
Brail tallies		Record a tally mark for every full, 7/8, 3/4, etc., brail that comes onboard. Count marks and write totals in corner boxes.
Total No. of Brai	ils	a <b>simple</b> count of all the brails that came onboard, whether full or not full. Add numbers in all corner boxes together.
Sum of ALL Bra	ails	must be calculated using the work area below. If two brail sizes are used, calculate each one on a separate form.
Brail pattern - f	ullness and	d samples - record a fullness code (1-8) and the number of fish measured for every brail that comes on board
MAIN DI GOI		

#### MAIN BLOCK

Species Code 1- 120	Record species code (see the codes on form PS-3) of fish measured in the same order they are sampled.
Column totals	To ease adding the lengths of each species in the entire sample first count each species and add the lengths of each species in each column, then add totals from each column together before making the average length calculations.

### AVERAGE LENGTH CALCULATIONS (these totals are also used to check data entry, so must be accurately added)

A Number Sampled	Write in the total number of each species that were sampled in this set (add the column totals for a species).
B Sum of Lengths	Add lengths of each species sampled in each column then add the column totals for each species together.
C Average Length	To get the "average length" (C) of each species in the sample divide the "sum of lengths" (B) by the "number sampled" (A).

### IMPORTANT POINTS ON THE SAMPLING PROTOCOL

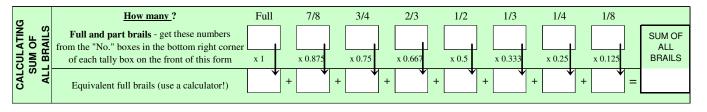
- 1 For most sets carry out a "Normal" sample. Sample five randomly collected tuna from every brail that is brought onboard.
- 2 Spread your sampling throughout the entire brailing process. Try to take 5 tuna from every brail. If a specimen is missed occasionally try to get an extra one from the next brail but in general try hard to keep the number of tuna steady throughout the sampling process. If brailing is too fast measure less than 5 tuna per brail but try to sample the same number from every brail. If there are problems mention it in the comments section.
- 3 Always get a random sample and don't choose fish just because they are the easiest size to handle or because you haven't had one like that yet.
- 4 Do not include measurements from fish that crew select even though they are trying to help.
- 5 IT is very, very important to correctly identify juvenile yellowfin and bigeye tuna!
- If using a deck tape, ensure one end is placed against a flat surface or has a nose block. Make sure the end of the tape starts at 0 cm.

  If using a deck tape, make sure the fish is on the tape straight when measuring. Never bend tail down to measure. Look directly over top of tail.
- 7 Do not measure damaged fish.
- 8 Record lengths to the nearest centimetre below e.g. a 69.9 cm fish will be recorded as 69 cm.
- 9 Record the species code in the columns provided, especially when there is a change in species type. Do not use ditto marks!
- 10 If taking an "Other" sample, start a new PS-4 page, tick "Other" and write what that other is.

Most often this will be lengths from <u>every species</u> still on deck, ready to throw away after brailing is ended. Record this as "all discards". Remember to still collect specimens at random, as trained. Do not be tempted to choose different (or same) sizes.

N.B. – "all discards" includes any target catch discards (SKJ-YFT-BET) if discarded for any reason. But you may have just "all discard bycatch". Usually an "Other" sample is collected after, or along with, a "Normal" sample but it could also be collected as an only sample.

11 Competent observers are encouraged to evaluate mixed tuna sets and, if possible, carry out two samplings simultaneously. Do this by either:
(1) first pulling 5 tuna from each brail for "normal" sampling followed by up to 5 more YFT/BET for "other - BET/YFT composition" sampling; or
(2) sampling 5 tuna from every 2nd brail for "normal" sampling and 5 YFT/BET from the other brails for "other" sampling, all through the set.
The 1st method is preferable but the second may be more practical on larger sets, which are those most likely to be sampled in this way.



## SPC/FFA REGIONAL PURSE SEINE OBSERVER **FORM PS - 5** (pg 1) **VESSEL LOGSHEET and WELL LOADING RECONCILIATION** REVISED NOV. 2007 OBSERVER NAME PAGE VESSEL NAME OBSERVER TRIP ID WELL PORT WELLS STARBOARD WELLS OBSERVER'S **OBSERVER** LOGSHEET FILL COMMENT (SEE NOTES) SET TIME CUMUL. 12 11 6 2 10 11 12 10 7 5 3 2 4 6 TOTAL CODE DATE TIME DATE TIME TOTAL TOTALS:

Record ALL fish going into wells in metric tonnes. Use whole numbers (e.g.: 25).

Also record ALL fish removed from wells in negative metric tonnes in brackets (e.g.: (-30)).

FS from set

WT transferred between wells

UL unloaded to cannery or cool store

### **Well Fill Codes**

- TR received into well from another vessel's hold (transhipment in)
- TG given from well in transfer to another vessel's hold (transhipment out)
- SR received into well from another vessel's net (set sharing)

### VESSEL LOGSHEET and WELL LOADING RECONCILIATION

Notes on FORM PS-5 (Page 1)

Form PS -5 is used by scientists to match vessel logsheet data with observer data and to improve port sampling strategy by letting scientists understand how fishermen move fish between wells. Be watchful tracking transfer of catch around wells. Record all transfers if possible, even if a well has fish mixed from more than one set. The information could still be useful.

Records are made on this form by an observer when there is any movement of fish (caught in set; transferred between wells or vessels) and whenever catch is recorded on a vessel logsheet.

For each set record the start "DATE" and "TIME" of set exactly as it is recorded on observer forms PS-2 and PS-3 AND exactly as it is recorded on the vessel logsheet. Record metric tonnes (mT) of catch that go in each well. (N.B. There are port and starboard wells and Well No.1 may be one central well or separate port and starboard wells

- EXAMPLE 1

If vessel does not record catch at time of set the observer makes their own record on Form PS-5 and must check the logsheet for later records that they think match with this set.

Be alert to what happens on the bridge and on logsheets. The vessel may be waiting until end of day to record sets. If a vessel records nothing for a set write "No record" - EXAMPLE 2

If the vessel has one logsheet entry for two or more sets the observer must bracket his set details to the vessel set details. Record exactly as on forms and logsheets - EXAMPLE 3

It may get difficult to match a vessel logsheet record with observer records. The observer must then make a separate Form PS-5 entry just to cover the vessel logsheet record. In PS-5 "DATE" and "TIME" columns: score out the observer column, enter details from the vessel's logsheet in the logsheet column and add a brief comment along that line.

- EXAMPLE 4 - EXAMPLE 5

For movements of fish between wells or between vessels record the date in the observer column, leave the time blank (line through it) and note time in comments.

Note that when transfers of fish are made from well to well the "OBSERVER'S TOTAL" for that line should equal zero and the "CUMUL. TOTAL" remains the same.

- EXAMPLE 6

Observer's Total: The observer calculated total. The amounts recorded as going into each well should add up to this total. If not explain why not on the line immediately underneath.

Cumulative total (CUMUL. TOTAL) should equal the total amount of fish on board. It is calculated by adding the observer's total to the previous cumul. Total on the line above.

**Comment**: Any comments about the transfer or loading of the catch in the wells and any reason given for transferring fish from one well to another.

OBSE	RVER	HEET	WELL																STA	ARBOA	RD W	ELLS					OBSE	RVER'S	00111151170	
(SEE N	IOTES) TIME	SET DATE	TIME TIME	FILL CODE	~	10	9	8	7	6	5	4	3	2		1	2	3	4	5	6	7	8	9	10	~	~	TOTAL	CUMUL. TOTAL	COMMENTS
18/03	0530	03/02	0600	FS				<b>4</b> 0				Exar	mple	1												30		70	70	
19/03	0545	No re	cord	FS					8			Еха	mple	2														8	78	
20/03	0840 }	04/03	\ } 1500	FS					12		_	<u>Exal</u>	mnla	. 2														12	90	Logsheet entry
21/03	1740 }		<i>y</i> 1200	FS					20	28		<u>Lxai</u>	пріс	<u>; J</u> L	1						40					10		98	188	was 100 mT
24/03	1635	No rec	rord	FS								Exar			_									5				5	193	
		15/03	1635	FS			Vesse	el reco	orded	30 m	eT of	SKJ .	in its	logsi	peet t	oday	with	no se	nsible	set l	D in	forme	ation	and i	onna	ge do	esn't .	match f	revious	sets from Lady Mac
25/03		15/02	—	TR		50					<u>E</u>	xam	ple 5	2	8	0									32			162	355	(because it is full) 0930
26/03				WT						<b>-4</b> 0		Exar	nple	6												(-40)		-80	275	transfer approx. 2100
	TOT	ALS				50		40	40	-12					80	<u> </u>					40			5	32	0			275	

#### Well Fill Codes

Record ALL fish going into wells in metric tonnes. Use whole numbers (e.g.: 25). Also record ALL fish removed from wells in negative metric tonnes in brackets (e.g.: (-30)).

Well fill codes - there must be one line for each well fill code

FS from set

WT transferred between wells

UL unloaded to cannery or cool store

TG given from well in transfer to another vessel's hold (transhipment out)

SR received into well from another vessel's net (set sharing)

TR received into well from another vessel's hold (transhipment in)

# SPC/FFA REGIONAL PURSE SEINE OBSERVER FORM PS - 5 (pg 2) **VESSEL LOGSHEET and WELL LOADING RECONCILIATION** REVISED NOV. 2007 VESSEL NAME OBSERVER NAME OBSERVER TRIP ID WELL COMMENT PORT WELLS STARBOARD WELLS LOGSHEET OBSERVER'S **OBSERVER** FILL SET TIME (Diary (SEE NOTES) CUMUL. 23 22 21 20 19 18 17 16 15 14 13 13 14 15 16 17 18 19 24 20 21 24 TOTAL CODE DATE TIME DATE TIME TOTAL pg. No.) TOTALS:

Record ALL fish going into wells in metric tonnes. Use whole numbers (e.g.: 25).

Also record ALL fish removed from wells in negative metric tonnes in brackets (e.g.: ( - 30)).

FS from set

WT transferred between wells

UL unloaded to cannery or cool store

### Well Fill Codes

- TR received into well from another vessel's hold (transhipment in)
- TG given from well in transfer to another vessel's hold (transhipment out)
- SR received into well from another vessel's net (set sharing)

### VESSEL LOGSHEET and WELL LOADING RECONCILIATION

Notes on FORM PS-5 (Page 2)

(Use Page 2 if your vessel has more than 12 starboard and 12 port wells)

Form PS -5 is used by scientists to match vessel logsheet data with observer data and to improve port sampling strategy by letting scientists understand how fishermen move fish between wells. Be watchful tracking transfer of catch around wells. Record all transfers if possible, even if a well has fish mixed from more than one set. The information could be useful

Records are made on this form by an observer when there is any movement of fish (caught in set; transferred between wells or vessels) and whenever catch is recorded on a vessel logsheet.

**For each set** record the start "DATE" and "TIME" of set exactly as it is recorded on observer forms PS-2 and PS-3 **AND** exactly as it is recorded on the vessel logsheet. Record metric tonnes (mT) of catch that go in each well. (N.B. There are port and starboard wells).

- EXAMPLE 1

If vessel does not record catch at time of set the observer makes their own record on Form PS-5 and must check the logsheet for later records that they think match with this set.

Be alert to what happens on the bridge and on logsheets. The vessel may be waiting until end of day to record sets. If a vessel records nothing for a set write "No record" - EXAMPLE 2

If the vessel has one logsheet entry for two or more sets the observer must bracket his set details to the vessel set details. Record exactly as on forms and logsheets - EXAMPLE 3

It may get difficult to match a vessel logsheet record with observer records. The observer must then make a separate Form PS-5 entry just to cover the vessel logsheet record. In PS-5 "DATE" and "TIME" columns: score out the observer column, enter details from the vessel's logsheet in the logsheet column and add a brief comment along that line.

- EXAMPLE 4

For movements of fish between wells or between vessels record the date in the observer column, leave the time blank (line through it) and note time in comments.

- EXAMPLE 5

Note that when transfers of fish are made from well to well the "OBSERVER'S TOTAL" for that line should equal zero and the "CUML. TOTAL" remains the same.

- EXAMPLE 6

Observer's Total: The observer calculated total. The amounts recorded as going into each well should add up to this total. If not explain why not on the line immediately underneath.

Cumulative total (CUMUL. TOTAL) should equal the total amount of fish on board. It is calculated by adding the observer's total to the previous cumul. Total on the line above.

**Comment**: Any comments about the transfer or loading of the catch in the wells and any reason given for transferring fish from one well to another.

OBSERVER	LOGSHEET	WELL																STA	RBOA	RD WI	ELLS					OBSE	RVER'S	0014451450
(SEE NOTES) DATE TIME	SET TIME DATE TIME	FILL CODE	~	22	21	20	19	18	17	16	15	14	1	3	14	15	16	17	18	19	20	21	22	?	?	TOTAL	CUMUL. TOTAL	COMMENTS
18/03 0530	03/02 0600	FS				40				Exai	mple	1												30		70	70	
19/03 0545	No record	FS					8			<u>Exa</u>	mple	<u>2</u>														8	78	
20/03 0840	04/03 } 1500	FS					12			Exa	mnle	. 2	_													12	90	Logsheet entry
21/03 1740		FS					20	28		LAA	πρισ	<u>,                                    </u>							40					10		98	188	was 100 mT
24/03 1635	No record	FS								Exai	mple	4										5				5	193	
	15/03 1635	FS	Ve.	ssel re	corde	ed 30	mТ	of SI	IJ in	its lo	gshee.	t toda	y wi	h no	sensi	ble se	t ID	infor	matio	n an	d ton	nage i	doesn	't ma	tch p	revious	s <del>ets </del>	– from Lady Mac
25/03	15/02	TR		50					<u> </u>	xam	ple 5	2	8	p									32			162	355	(because it is full) 0930
26/03		WT						<b>-4</b> 0		Exar	nple	6												(40)		-80	275	transfer approx. 2100
ТО	TALS			50		40	40	-12					80	•					40			5	32	0			275	

### Well Fill Codes

Record ALL fish going into wells in metric tonnes. Use whole numbers (e.g.: 25). Also record ALL fish removed from wells in negative metric tonnes in brackets (e.g.: ( - 30 )).

Well fill codes - there must be one line for each well fill code

FS from set

WT transferred between wells

UL unloaded to cannery or cool store

TR received into well from another vessel's hold (transhipment in)

TG given from well in transfer to another vessel's hold (transhipment out)

SR received into well from another vessel's net (set sharing)

	SP			NAL T				VEF	3		F	ORI	ИTF	₹ - 1		
REVISED DEC. 2007																
TRIP DETAILS																
OBSERVER NAME			DEPARTUR	E PORT						PARTU M M		IP DATE	h h	M m		
OBSERVER TRIP ID NUMBER			RETURN PO	ORT					RETURN (SHIP DATE AND TIME)							
									DIMM YY hh mm							
VESSEL			LOOURITEN/	DECICEDATIO	S				CREW NATIONALITY							
VESSEL NAME			COUNTRY	REGISTRATIO	ON No.				CAPTAIN FISHING MASTER							
VESSEL OWNER			FLAG						OTHER . How many ?							
VESSEL CAPTAIN			INTERNATION	IAL RADIO CALL	SIGN				CREW: : How many ?							
FISHING PERMIT OR LICENCE NUMBE	R(S)		<u> </u>						CREW:			: . H	ow many	?		
									OTHER CREW:			:				
ELECTRONICS																
		USAGE				USA	AGE					ι	JSAGE			
DEPTH SOUNDER	Y/N		1	GPS	Υ/				TRACK PI	OTTE	RY	/ N				
			J													
Please circle			USAGE	MA	KE	<u> </u>	ı	MODE	EL			COM	MENTS	;		
"Y" or "N"	BIRD RADAR	Y/N														
for <u>every</u> item	SONAR	Y/N														
NEW -																
	SST GAUGE	Y/N														
System:	331 GAUGE	Y / N								Se	als In	tact				
VMS - 1		ALC										Υ /	N			
VMS - 2 System:	VMS - 2 System: Y / N									int	act		Υ /	N		
	PHONES	SATEL	LITE:	Y / N	Phone	·		МС	OBILE:	Υ / Ι	N Phor	ne #				
COMMUNICATION SERVICES	OTHER	FACSI	NAII E.	Y / N	Fax#			Г	MAIL:	Y / I	Ema	il:				
	OTHER			f / IN							N					
INFORMATION SERVICES	WEATHER	WEATH		Y / N	S	ATELLITE			Υ /	N						
	OTHER	Y / N	Phytoplankt	on		Y	/ / N	SST			Y	/ N S	ea Heigh	t		
CODE GROUP												_				
Is this vessel part of a co	de group ?	Y/N	Comments	s / other vess	sels:							_				
Total other vessels in co	de aroup =		1													
FISHING GEAR	3 p															
	LICA	AGE	ments:			No. of	STE	RN	AFT OL	JTRIGG	ERS	FWD	OUTRI	GGERS		
MECHANICAL HAULERS Y	/ N	AGE				LINES USED			Port	Sti	hd	Por	.	Stbd.		
									1 011	Olk	Ju.	1 01		Sibu.		
WEIGHING SCALES Y	/ N					USUAL										
REFRIGERATION ME	THOD			SAFE	TY I	EQUIPN	IENT	•								
BRINE Y/N	BLAST	FREEZER	Y/N	LIFE JAC	CKET	PR	ROVIDE	D FOF	R OBSER\	/ER:	Y / N /	/ O		. of UOYS /		
ICE Y/N REFR	IGERATED SI	EA WATER	Y/N					SL	JITABLE S	SIZE:	Y / Y	N		RINGS		
OBSERVATIONS / OTHER GEAR / UNU		AVAILAB (circle o		Easy	,	Мо	derate		Hard							
(write brief notes here and a full des	cription in trip	report).		EPIRBs		Total	Exp.	LIFE	RAFTS	1		2	3	4		
				406				No. of	people and							
				other				inspe	ction due (d) or last		-					
						<u> </u>			ate L)							
				USAG	E CO	DES	(for "USA	GE" c	olumn	ns)						
	ALL		ed all the ti		fishin	g										
				TRA - used all the time OIF - used only in transit  N.B fishing can be searching,												
	OIF - used only in transit setting, retrieving, deploying, setting, retrieving, deploying, investiligating, etc.							ying,								
		RAR - rarely used														
				BRO NOL		ken now b longer eve			mally							
						J		-								

### **GENERAL INFORMATION**

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

### **Trip Details**

Observer Name: Print first name and family name in full (e.g. "John Masa").

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

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

Departure (Ship Date and Time) \right\} Print date using "day day/ month month / year year" format. } use SHIP'S TIME <u>Return (Ship Date and Time:</u> } 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 "03/01/96 - 13:05").

<u>Departure Port / Return Port</u>: Record in both boxes even if it is the same port.

### **Vessel and Crew**

<u>Vessel Name</u>, <u>Vessel Owner</u>, <u>Vessel Captain</u>, <u>Fishing master</u>: Print full names whenever possible.

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

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

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

Fishing Permit or Licence Number(s): If the vessel fished under one or more bilateral access agreements, then print the fishing permit number issued by each of the coastal states in whose waters the vessel fished during the trip. If the vessel fished under a multilateral treaty, then print the fishing permit number issued to the vessel under the multilateral treaty. If the vessel is registered in the coastal state, then print the fishing licence number issued by the coastal state.

Crew: Report the nationality of each crew member.

Total number of crew: This is to include the Captain and Fishing master.

Observations / Comments: Record notes if you think there is anything special about this boat or its crew compared to others. If you need to write more about this do it in your diary and a special section in your trip report then only put a brief note here with a reference to page numbers in your diary and trip report.

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

Empty rows: These are to record equipment you think are important but are not listed in this section. If nothing, circle "N".

<u>Usage</u>: Use the "Usage codes" listed at the bottom of the form to record how much use each item gets during your trip.

As for all codes select the best (most informative) code when it seems that more than one code can work.

"UU" always gets first priority if appropriate. Be sure to add *Comment s* on new equipment or new use of equip.

Comments: If equipment is new or used differently write brief notes here and a reference to more in your diary and/or report.

VMS type: If only 1 system record next to VMS-1. If 2 systems record FFA approved at VMS-1 and other system at VMS-2.

ALC make and model: Record manufacture's name (e.g. Thrimble, Thrane and Thrane, Furno, etc) and the model if possible Seal intact ?: A good (intact) seal is bright silver. A seal that has been interferred with has black crinkly lines through it. Communication services: If vessel uses satellite and/or mobile phone and/fax and /or email address, record contact details. Fishery Information Services: Vessels may receive real-time information on some oceanographic features.

Circle Y or N to show if they are getting information on sea-surface temperature, phytoplanton densities or sea height. If they are receiving another type of information record that in the blank field.

Record the name and/or address (url) of the website from which their information is received.

#### Code groups (Vessels may fish in groups, sharing information that helps improve catch and safety.)

Scientists working in stock assessment need to know which vessels make up code groups at different times. Circle Y or N to show if this vessel is part of a code group. Enter the total number of vessels in the code group.

Use *comments* section to record names (if possible) of other boats in the code group and note how the code group cooperates.

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

Comments / other gear: Comment if equipment is not working, not used or used in an unusual way.

Also comment if fishing gear is a different design to equipment you are used to seeing on other longliners and record the make, model and special characteristics of this new gear.

Weighing scales: If there is any weighing scales on-board that is used to weigh the retained fish circle Y (yes)

Empty rows: These are to record equipment you think are important but are not listed in this section. If nothing, circle "N".

Line distribution: What are the usual (during the trip) and maximum number of lines trolled from each area of vessel?

#### (circle "Y" or "N" to show which refrigeration systems are used on board) **Refrigeration Method**

<u>Methods</u>: N.B.: There may be more than one refrigeration method

Refrigerated seawater: N.B.: This may also be called "Chilled seawater"

**Safety Equipment** (obtain as much information as possible without intruding)

Life jacket: if your own (or fisheries) circle "O". Else circle "Y" or "N" to show if vessel showed you one for your own use Was it a good size? Was it (easy) available, available but not easy (moderate) to get to, or (hard) to find Lifebuoys/life rings - count all to be found. EPIRBS - count total and count any with expired battery renewal dates.

<u>Life rafts</u> - find info on labels on life-rafts. If **after careful check**, dates are not found, record "ND" for not displayed'. <u>Observations / Comments, Other Gear, Unusual Use of Gear</u>

Record notes if you think there is anything special about this boat or its crew compared to others.

Comment if equipment is not working, not used or used in an unusual way. Describe fishing gear if different to equipment you see on other longliners and record make, model, special characteristics and usage of this new gear.

If you have lots to write about (good) do so in your diary and in a special section in your trip report then only put a brief note here with a reference to page numbers in your diary and trip report.

			SF	PC/FFA RE		AL TRO		ERVER						FOF PAGE	RM TF	} - 2
REVISED DEC. 200 VESSEL NAME:	7			OBSERVER NAMI	≣:			OBSERV	/ER TRIP ID NUI	MBER:		D	CHIP'S DATE &	YY	h h	m m
Targ (in o	get species: rder of priority)	1. 2. 3.			arra	ire / bai angeme ler of pric	nt 7.					D	D MM	YY	TART of FIS	m m kg.
SHIP'S TIME START	LATITUDE ( dd° mm.mmm'	) s			(kts)	ND (°)	SEA (C-S-M-R-V)	CLOUD (%)	SST	No. of LINES	OTHER VESSELS	NO. of FISH				
END														EVENT	OBSERVE S TO RECO GEN-3 TOD	RD
														NO (circle		liary

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

<u>Observer Trip ID Number</u>: 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").

<u>Page of</u>: 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 the 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").

Target Species: Record the main species being targeted by the vessel here. If there is only one target specis put a line through the other data fields.

<u>Lure / bait arrangement (in order of priority</u>): Record the main type of lure used. If only one type of lure or bait arrangement is used put a dash through the other lines. You can describe the lure more comprehensively in the written report.

Total Bait Used: Record the total amount of bait used during the day.

Ship's Date and Ship's Time at start of Fishing: is the date and time used by crew on board normally. The observer's watch should be set to this date and time as soon as they board.

<u>UTC Date and UTC Time at start of Fishing</u>: is standard data and time that scientists use to make corrections to Ship's data and time when it is used incorrectly, as it often is. Once a day, record Ship's and UTC date and time at the same moment. UTC time is normally got from the GPS. Remember that UTC date is **sometimes** different from the Ship's date. Observers should record Ship's time on all other forms and paperwork.

DAILY LOG RECORD: Try to take an hourly record from the start of fishing to the end of fishing each day. However, checking the catch comes first, so if fishing a delayed record is acceptable.

Ship's Time: Make a record hourly. Fill in the ship's time

<u>Latitude</u>, <u>Longitude</u>, <u>N</u>, <u>S</u>, <u>E</u>, <u>W</u>. 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 fron 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)

<u>Wind (kts)</u> (°): 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 meters 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 at the same pace for awhile then 0-5 kts is calm; 5-10 knts is slight;, 10-20 kts is moderate; 20-40 kts is rough; and anything over 40 kts is usually very rough.

<u>Cloud (%).</u> Estimate the total amount of the sky overhead that is covered with cloud.

<u>SST</u>: Record the sea surface temperature every time you make a record. Make sure you use the same instrument every time to record the temperature. If you use a different instrument at any time make a note in the comments.

No. of lines: Count the number of lines out fishing.

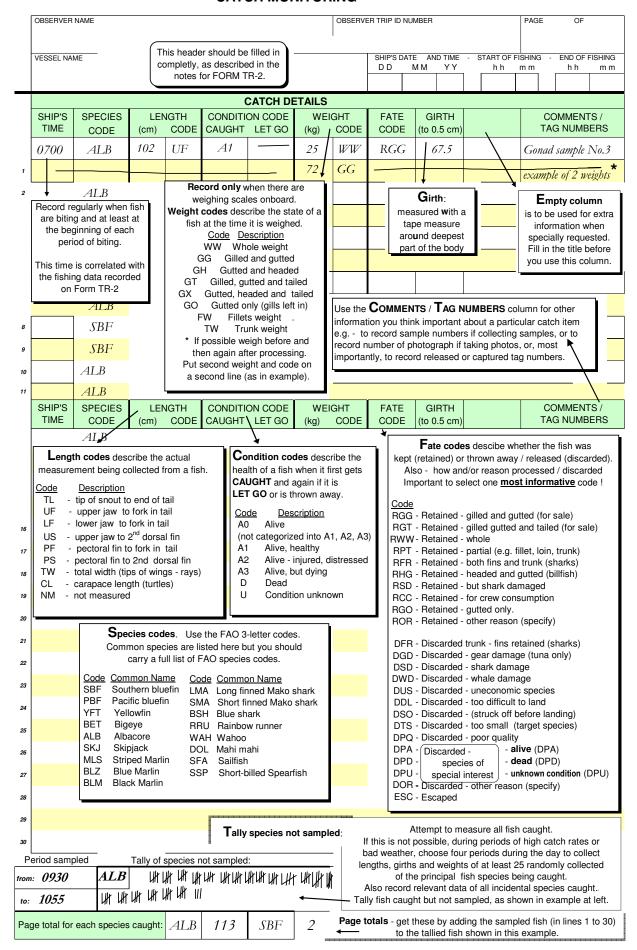
Other Vessels: Count the number of other troll fishing boats that you can see when making your hourly record.

No. of Fish: Make a record of the number of fish that were landed since the last record. The first record should obviously be zero.

<u>Did you observe any events to record on form GEN-3 Today?</u> Circle Yes if any infringements, as listed on Form GEN-3, were observed. Write note on Form GEN-3 and in diary; record your diary page No. on this TR\_2 form. If there was no incident for the day circle **No.** 

	SOUTH PACIFIC REGIONAL TROLL OBSERVER CATCH MONITORING FORM TR - 3														
	SED DEC. 2007 SERVER NAM	E						OBSERVE	ER TRIP ID I	NUMBEF	l		PAC	GE O	F
VES	SEL NAME								SHIP'S D D D	ATE A M M	ND TIME -	START O h h	F FISHING m m	- END C	OF FISHING m m
						C	ATCU D	ETAILS							
	SHIP'S	SPECIES	LEN	GTH	CONDITION	ON CODE		IGHT	FATE		GIRTH		C	OMMENT	S/
	TIME	CODE	(cm)	CODE	CAUGHT	LET GO	(kg)	CODE	CODE	(to	0.5 cm)		TA	G NUMB	ERS
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
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28															
29															
30															
Р	eriod samı	oled	Tally of s	pecies no	t sampled										
from	:									Cor	mments:				
to:															
	Page to	otal for each	species o	aught:	Sp. code	No.		Sp. code	No.	Sp. code	No.	Sp. code	No.	Sp. code	No.

### **CATCH MONITORING**



VESSEL AND AIRCRAFT SIGHTINGS / FISH, BUNKERING and OTHER TRANSFERS LOGS												FC	ORM GEN-	1			
REVISED DEC.						VESSEL NAME						OBSERVER	TRIP ID NUME	BER	P	AGE OF	
VESSEL	OR A	IRCRAFT SIGH	łTII	NGS											'		
SHIP'S	TIME	OBSERVER'S	VE	SSEL POSITION	Т	SIGHTED VE	SSEL OR AIRCF	RAFT		COMPASS	DISTANCE	ACTION					
DATE	TIME	LATITUDE (dd° mm.mmm')	N S		E W	NAME	INTERNATIONAL CALLSIGN	FLAG	TYPE CODE	BEARING (degrees)	(Nautical Miles)	CODE (seen vess)	PHOTO FRAME#		COM	MMENTS	
					4												
					4												
					-												
					1												
					-												
					1												
					ı												
					T												
					T												
FISH TF	ANSFI	ERRING. FISH	DU	MPING. BUNKER	INC	G by OBSERVER'S VE	SSEL	<u>'</u>		•	<u>'</u>	'	<u>'</u>				
SHIP'S				ESSEL POSITION	Т		ER VESSEL			F	ISH TRAN	SFERRE	)	ACTION	Tick bo	ox if also using	
DATE	TIME	LATITUDE (dd° mm.mmm')	N S		E W	NAME	INTERNATIONAL CALLSIGN	FLAG	TYPE CODE	SKJ WGT.	YFT WGT.	BET WGT.	MIXED WGT.	CODE (host vess)	suppler	nentary GEN-1:	
		(22		( 222													
					T												
					ı												
1 SINGLE	PURSE SE		NCH	OR OR LIGHT BOAT		_AG COUNTRY CODES	IAME OF COUNTRY			DES NCLUDES ANY F OT OTHERWISE			ALL W	EIGHTS MU	IST BE MI	ETRIC TONNES	
2 LONGL 3 POLE AI 4 MOTHE 5 TROLL 6 NET BO	ND LINE RSHIP AT	9 FISH CARR 10 TRAWLER 21 LIGHT AIRC 22 HELICOPTE	CRAF	Т		CN CHINA US USA JP JAPAN PH PHILLIPINES TW TAIWAN PA PANAMA KR KOREA HN HONDURAS	SG SINGAPOR	FI E PF NF	FISHING	RECE TR FISHING SR NG BR	I <mark>VING</mark> TRANSHIPPIN	GIVIN IG FISH TG i SG	TRANSHIPPI	G (fron		n one boat to hold in ot net to another boat's h	

OR OTHER ...specify... OG OTHER

31 OTHER - please specify:

### **VESSEL AND AIRCRAFT SIGHTINGS / FISH, BUNKERING and OTHER TRANSFERS**

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 must not 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 particular box you are trying to complete.

Date/Time	Ship's date / time at start of sighting or transfer activity (dd/mm/yy hh:mm)
Date/Time	
Latitude dd°mm.mmm' Longitude ddd°mm.mmm'	Take positions from the GPS. Record in degrees (2 digits for latitude and 3 for longitude), minutes and to 3 decimal place fractions of minutes
N S	It is very important to record if latitude is North or South of the equator by writing "N" or "S" beside the position.
E W	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

Oth	er vessel name	Name of any other vessel that is involved in a transfer operation with the observer's vessel.							
Inte	rnational callsign	The call-sign that should be visibly painted on the other vessel							
Тур	e 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.							
	SkipJack Weight	Total Weight of Skipjack that has been transferred							
	Yellowfin weight	Total Weight of Yellowfin that has been transferred							
RRED	Bigeye Weight	Total Weight of Bigeye that has been transferred							
TRANSFE	Mixed Weight	Some wells may be mixed and so it will be impossible to get separate species weights. Then get total weight of species. Indicate in comment s what the main species in the mix is.							
ᄩ	Action Code	See codes on front of Form.							
FISH	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	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.
(host vess)  Host vessel = vessel that	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.
observer is on.	TR, TG - transferring fish between vessel holds
Use the "?R" codes if host vessel is receiving fish or items from another vessel.	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.
Use the "?G" codes if the host vessel is giving fish or items to another vessel	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.

### Telex Format Example.

To FFA Observer Co-ordinator

sighting - Jun. 23-1400Z- - Pos. 0512345S -15612233E Moon-shadow -Q2344 flag KO - 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 FISH, BUNKERING and OTHER TRANSFERS LOGS (continued)

Supplementary FORM GEN - 1

DESIGNED DEC. 2007					
OBSERVER NAME	VESSEL NAME	OBSERVER TRIP ID NUMBER	PAGE	OF	
			1	1	1
			_	<u>.</u>	-

SHIP'S TIME	OBSERVER	R'S V	ESSEL POSITION		OTH	HER VESSEL			F	ISH TRAN	SFERRE		ACTION	
DATE TIME	LATITUDE (dd° mm.mmm')	N S	LONGITUDE ( ddd° mm.mmm')	E W	NAME	INTERNATIONAL CALLSIGN	FLAG	TYPE CODE	SKJ WGT.	YFT WGT.	BET WGT.	MIXED WGT.	CODE (host vess)	COMMENTS
													1	
				+										
		+		+										
		+												
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		+		+										
				$\perp$		1								

ISH TF	SH TRANSFERRING, FISH DUMPING, BUNKERING by OBSERVER'S VESSEL														
SHIP'S	TIME	OBSERVER	'S V	ESSEL POSITION			ER VESSEL				ISH TRAN			ACTION	
DATE	TIME	LATITUDE (dd° mm.mmm')	N S	LONGITUDE [ ( ddd° mm.mmm') V	E N	NAME	INTERNATIONAL CALLSIGN	FLAG	TYPE CODE	SKJ WGT.	YFT WGT.	BET WGT.	MIXED WGT.	CODE (host vess)	COMMENTS
		(dd iiiiiiiiiii)		( add illillillilli)											
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					4										

SPC/FFA REGIONAL OBSERVER SPECIES OF SPECIAL INTEREST FORM GEN - 2												
REVISED DEC. 2007 OBSERVER NAME		VESSEL NAME			OBSERVER TE	RIP ID NUME	BER PAGE	OF				
The species wa		LANDED DON DECK			WITH CAR ONLY			HTED				
TIME OF LAND (see PS-2, PL-2, TIME OF INTERAC / SIGHTING	LL-4)	DD MM Y			LATITUDE (dd°mm.mmm')	N S	LONGITU (ddd mm.n					
SPECIES CODE	SPECIES DESCRIPT	ON	"			•						
		SPE	CIES LANDED (	ON DEC	K:							
LANDED:	CONDITION CODE	CONDITION DESCRIPT	TION									
DESCRIBE ONBOARD					LENGTH (	cm)	LENGTH CODE	SEX (M-F-I-U)				
DISCARDED	CONDITION CODE	CONDITION DESCRIPT	TION									
S	RETF	RIEVED				PLAC						
TAG NUME	BER TYPE	ORGANI	SATION	TAG NUN	MBER	TYPE	ORGANI	SATION				
		INTERACTIONS	S WITH VESSEL	OR VE	SSEL GEA	\R:						
VESSEL ACTIVITY DURING INTERACT	ION: - SETTING	HAULING	SEARCHING	TRA	NSITING	OTHER	(specifiy)					
Z No.	CODE	DESCRIPTION		ž _ N	lo. CODE		DESCRIPTION					
START OF INTERACTION:			- Constant	INTERACTION:								
S S				N								
DESCRIBE THE IN	TENACTION		SPECIES SIGH	<del>I</del> TED								
VESSEL ACTIVITY	→ SETTING	HAULING	SEARCHING SEARCHING	_	NSITING	OTHER	(specifiy)					
NUMBER SIGHTED	NUMBER OF ADULTS	<u> </u>		_	VERALL LENG		m the head to the tail	)				
DISTANCE SPECIE FROM VESSEL	S BEHAVIOUR WHEN	SIGHTED										
m nM												
		SPECI	ES OF SPECIAL	. INTEF	REST							
DKK LEATHE TUG GREEN LKV OLIVE F TTH HAWKS KEZ EASTEF	RHEAD TURTLE ERBACK TURTLE TURTLE RIDLEY TURTLE BILL TURTLE RN PACIFIC GREEN TU ACK TURTLE) CK TURTLE	FAW SHW KPW MEW HUW JRTLE SIW MYS ODN MAM	FALSE KILLER WHAL SHORT-FINNED PILO PYGMY KILLER WHAI MELON-HEADED WH HUMPBACK WHALE SEI WHALE BALEEN WHALES TOOTHED WHALES TOOTHED WHALES ALL MARINE MAMMAI BRYDE'S WHALE	E T WHALE LE ALE	1 1 1 1 1 F	DCO CO DRR RIS DSI SPI DSP SPC DST STE RTD RO	TTLENOSE DOLPHII MMON DOLPHIN SO'S DOLPHIN NNER DOLPHIN DTTED DOLPHIN RIPED DOLPHINS UGH-TOOTHED DOI					
	-		WHALE SHARK		E	BIZ ALL	BIRDS					

		SPECIES OF SPECIAL INTEREST  Notes for GEN -2					
Obs	erver Name	Print your name in full. First name first, then your family name (e.g "John Masa").					
Vess	sel Name	Print the vessel's name in full. Do not use abbreviations.					
	erver Trip ID Number	This is the number issued by your observer programme. It will be the same all trip.					
Page	eof	Number all the GEN-2 forms together,in sequence. Continue until the trip is complete.					
		THE SPECIES WAS:					
		indicate the <u>FINAL</u> encounter the species of special interest had with the vessel.  e, if you sighted a species that was subsequently landed, tick landed only.					
	e of landing PS-2, PL-2, LL-4)	For species landed on deck note start of set time recorded on PS- 2 or PL-2 forms. If on a longliner note the actual time of landing as noted on the LL-4.					
Time	e of Interaction / Sighting	For species which were not landed on deck, note the time of the interaction or sighting.					
Posi	tion (latitude / longitud	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.					
Spec	cies Code	Use the three-letter FAO species code.					
Species Description		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.					
		SPECIES LANDED ON DECK:					
IESE I CODES	A0 - Alive but unable to des A1 - Alive and healthy. A2- Alive, but injured or dist A3 - Alive, but unlikely to liv	land in a PS set use the GEN-2 supplement to record condition, length, sex of up to 30; then use a PS-4 to record lengths only if more than 30.					
USE THESE CONDITION CODES	A4 - Entangled, okay. A5 - Entangled, injured. A6 - Hooked, externally, injured. A7- Hooked, internally, injured. A8 - Hooked, unknown, injured.	red. <b>D3</b> - Hooked, internally, dead. <b>U3</b> - Hooked, internally, condition unknown.					
Write a description of the condition of the species w		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.					
Lenç	gth / Length code	Measure the species using the regular length codes as outlined in your workbook.					
Sex (M-F-I-U) M-ma		M-male, F-Female, I -Indeterminate (checked but unsure), U -unknown (not checked).					
		TAGS					
	Reco	rd all details about any tags placed or found on the species here.					
Туре	e of Tags	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:					
	For instance, you may note	with the vessel or with the vessel's gear - use one form per species per incident whales or dolphins trapped inside a purse seine net or riding the bow waves of a vessel.					
Vecc	Another type of intersel's Activity	raction to be considered are species hooked on longlines but not landed onboard.  Tick to indicate the vessel's activity when the interaction was first noted.					
	dition - No.	Use <b>GEN-2 condition codes</b> , above, to describe how many of a species are in each					
	- Code	condition, at start, and again at end, of the interaction with the vessel or vessel gear.					
	- Description	add any notes (words) that may help <b>further define</b> condition.					
Describe the Interaction		Make detailed notes on the interaction.  If more space is needed use the observer's diary and mark the page number here.					
		SPECIES SIGHTED:					
	sel's Activity	Tick to indicate the vessel's activity when the interaction was first noted.					
Number Sighted		Record the total number of species sighted for this date and time.					
		If more than one animal is involved, record the number of adults you can see.					
Num	ber of Juvenilles	If you can see juvenilles with the pod of whales or dolphins record the number here.  Otherwise record all animals under "number of adults".					
Spec	Describe the behaviour of the animal in the water. Use own words but some technical terms that may be helpful include: wake riding (swimming close behind boat);  bow riding (swimming off the bow of the boat); logging (floating motionless in a group); breaching (launching themselves into the air head first and then falling back into the water with a splash); lobtailing (tail slapping); playing (having fun!); etc.						
Dista	ance from Vessel (m /NM)	Estimate the distance the species was from the vessel.					

# SPC/FFA REGIONAL LONGLINE OBSERVER

# Supplement to FORM GEN-2

	S	PECIES	OF SP	ECIAL INT	EREST - mu	Iti-landings		FORM	GEN-2	•
	DEC. 2007 /ER NAME				OBSERVER TRIP ID N		SUPPLEMENT TO GEN-2 FORM:	PAGE (frame C)	OF	
VESSEL	NAME			MEASUR	IING INSTRUMENT			OF SET DATE AN	EN-2 form) D TIME h h m n	n
SPECIES AND SEX		LENGTH CON		NDITION DESCRIPTION	DITION Use condition codes from bath DESCRIPTION - any extra words that will help descri				arded)	
•	SP. CODE	(cm)	LANDED	DESCRIPTION	iv - arry extra word	is that will help descri	be condition (lar	idea ana disce	irded)	
1	SEX (M-F-I-U)	CODE	DISCARD							
	SP. CODE	(cm)	LANDED							
2	SEX (M-F-I-U)	CODE	DISCARD							
	SP. CODE	(cm)	LANDED							
3	SEX (M-F-I-U)	CODE	DISCARD							
	SP. CODE	(cm)	LANDED							
4	SEX (M-F-I-U)	CODE	DISCARD							
	SP. CODE	(cm)	LANDED							
5	SEX (M-F-I-U)	CODE	DISCARD							
	SP. CODE	(cm)	LANDED							
6	SEX (M-F-I-U)	CODE	DISCARD							
7	SP. CODE	(cm)	LANDED							
7	SEX (M-F-I-U)	CODE	DISCARD							
8	SP. CODE	(cm)	LANDED							
	SEX (M-F-I-U)	CODE	DISCARD							
9	SP. CODE	(cm)	LANDED							
9	SEX (M-F-I-U)	CODE	DISCARD							
10	SP. CODE	(cm)	LANDED							
.0	SEX (M-F-I-U)	CODE	DISCARD							
11	SP. CODE  SEX (M-F-I-U)	(cm)	LANDED							
	SEX (M-F-I-U)  SP. CODE	CODE	DISCARD							
12	SEX (M-F-I-U)	(cm)	LANDED							
	SP. CODE	(cm)	LANDED							
13	SEX (M-F-I-U)	CODE	DISCARD							
	SP. CODE	(cm)	LANDED							
14	SEX (M-F-I-U)	CODE	DISCARD							
	SP. CODE	(cm)	LANDED							
15	SEX (M-F-I-U)	CODE	DISCARD							

	SP. CODE	(cm)	LANDED	
16	SEX (M-F-I-U)	CODE	DISCARD	
	SP. CODE	(cm)	LANDED	
17	SEX (M-F-I-U)	CODE	DISCARD	
	SP. CODE	(cm)	LANDED	
18	SEX (M-F-I-U)	CODE	DISCARD	
	SP. CODE	(cm)	LANDED	
19	SEX (M-F-I-U)	CODE	DISCARD	
	SP. CODE	(cm)	LANDED	
20	SEX (M-F-I-U)	CODE	DISCARD	
	SP. CODE	(cm)	LANDED	
21	SEX (M-F-I-U)	CODE	DISCARD	
	SP. CODE	(cm)	LANDED	
22	SEX (M-F-I-U)	CODE	DISCARD	
	SP. CODE	(cm)	LANDED	
23	SEX (M-F-I-U)	CODE	DISCARD	
24	SP. CODE	(cm)	LANDED	
24	SEX (M-F-I-U)	CODE	DISCARD	
	SP. CODE	(cm)	LANDED	
25	SEX (M-F-I-U)	CODE	DISCARD	
	SP. CODE	(cm)	LANDED	
26	SEX (M-F-I-U)	CODE	DISCARD	
	SP. CODE	(cm)	LANDED	
27	SEX (M-F-I-U)	CODE	DISCARD	
	SP. CODE	(cm)	LANDED	
28	SEX (M-F-I-U)	CODE	DISCARD	
	SP. CODE	(cm)	LANDED	
29	SEX (M-F-I-U)	CODE	DISCARD	
	SP. CODE	(cm)	LANDED	
30	SEX (M-F-I-U)	CODE	DISCARD	

If more than 30 animals landed in a single purse seine set then record only the lengths of the remaining animals on a PS-4 form associated with the set. Try to sample animals on this form randomly without favour to size, sex or condition. If this is not possible for any reason, please explain below:

Further comment on sampling procedures:				
	Are more measurements of these animals recorded on a PS-4 form:	Yes	/ N	0

# FORM GEN-3

# SPC/FFA REGIONAL OBSERVER VESSEL TRIP MONITORING RECORD

DEVICED DEC. 2007

	This form must be filled in for every trip		
OBSE	RVER NAME VESSEL NAME OBSE	RVER TRIP ID NUMBER	
		" for either yes or no fo	or <b>every</b> item)
	attempt or do any of the following:	Yes	No
a)	Record inaccurate positions on the vessel logsheet		
b)	Fish in areas that were not covered by any licence or access agreement		
c)	Mis-report catch in the vessel logs or weekly reports.		
d)	Not report catch of commercial species (including discards)		
e)	Not record bycatch and discards		
f)	Record bycatch and discards inaccurately		
g)	Target species other than those they are licenced to target		
h)	Use a fishing method other than the method they are licenced to use		
i)	Record one species as a different species.		
j)	Catch species of special interest		
k)	Breach MARPOL Regulations		
I)	Bunker or not report bunkering to national authorities		
m)	Transfer fish from or to another vessel at sea		
n)	Request that an event not be reported		
o)	Mistreat other crew		
p)	Hinder the observer in the carrying out of their duties		
q)	Not supply reasonable accomodation, food and facilities to the observer onboard the vessel		
r)	High grade or cull the catch		
s)	Not report position to countries when crossing from one zone to another		
t)	Not display or present a valid (and current) licence document onboard		
	IF YOU ANSWERED YES TO ANY OF THE ABOVE PLEASE EXPLAIN BRIEF DETAILS IN TI	HE AREA BELOW	
date	INDICATE THE PAGE NUMBER OF YOUR DIARY OR REPORT IN WHICH A MORE COMPREHENSIVE	EXPLANATION IS WI	RITTEN.
date			
date			
	OBSERVER SIGNATURE		

This check form must be completed at the end of every trip. It is important to ensure the information you collect is kept confidential from the vessel and any one else except officers authorised to receive observer reports back in port.

If unsure that a violation has been committed but suspect a vessel has violated its license agreement, write a full account of the incident, including all evidence that aroused suspicion. The officers you report to on return to port will determine if your suspicions are valid and may order further investigation. Although gut feelings on board are often correct, these, unfortunately are not enough to prosecute a vessel. There must be some incident or evidence to back up any suspicions.

Be friendly on board and have a harmonious trip if possible, but remember an observer must put new friendships aside when reporting on vessel compliance. Any attempt by the vessel to corrupt an observer is illegal and should be noted and reported. Whether money or gifts it is still bribery. If a vessel is caught fishing illegally and an observer has accepted gifts from that vessel then the observer could be accused of taking a bribe to not report the illegal fishing, which could land them in prison.

Observer Name	The observer must print their first name first and last name (family name) last
Vessel Name	Full name - not abbreviated. E.g.: F/V Ivan Grimsby Korsakov must not be abbreviated to I.G.Korsakov
Observer ID Number	Same number used on all forms and issued before leaving port. It will not change for the whole trip.

Vessel Name	Full name - not abbreviated. E.g.: F/V Ivan Grimsby Korsakov must not be abbreviated to I.G.Korsakov
Observer ID Number	Same number used on all forms and issued before leaving port. It will not change for the whole trip.
During the trip did th	ne Master or crew of the vessel attempt or do any of the following:
~ Record inaccurate positions on the vessel logsheet	The <u>vessel</u> log sheet should be filled out by the vessel captain or a designated officer daily or after each set. The observer has the right to ask to see this log at anytime (inspect this log at least once a day). Check if the vessel recorded position is the same as that recorded for the same time on observer daily logs. Discrepancies of more than 3 miles should be reported and the distance noted in the observer report.
~ Fish in areas that were not covered by any licence or access agreement	Be aware of areas within EEZs that a vessel is not permitted to fish - internal waters, territorial seas, and archipelagic waters are usually off limits to purse seiners (some exceptions occur). Some countries (e.g.: PNG) have areas where only specific types of vessel are permitted to fish. Local fishery divisions and FFA will help by listing appropriate closure areas.
~ Mis-report catches in the vessel logs or weekly reports	Is the vessel under reporting, over reporting or not reporting any of the observed sets for any reason. Check vessel logs to ensure all sets are recorded and the catch has been logged correctly every day. If vessel and observer estimates are very different, be suspicious, watch carefully and report it on return.
bycatch and discards ~ Record bycatch and	Report any attempt by the vessel to not report any fish, shark and mammal species - retained or discarded. Record if retained <b>or</b> discarded bycatch are not reported even if all target species are reported correctly. Record if vessel does not report target species rejected due to damage, too small, or otherwise undesirable. Recording discards may not be important to the vessel but it is a requirement that all species (not only commercial species) caught must be recorded correctly, whether they are retained or discarded. Also note if bycatch are recorded but recorded inaccurately.
~ Target species other than those they are licenced to target	Target species are mentioned on vessels' fishing permits. Usually "Tuna" is the target species.  Note if time is spent targeting a species other than what is marked on their permit.  Did a vessel licensed for "Tuna" target sharks for instance. Did they target reef fish?
~ Use fishing method other than method licenced to use	The licensed fishing method is marked on vessels' fishing permits.  Note if a fishing method other than that on the permit is used (most commonly, hand lining near a reef).  Fully describe the type of gear used and what species, if any, were caught.
~ Record one species as a different species	Vessels may record one species as another, to lower catch value to try to negotiate lower licence fees.  Also, purse seiners commonly record BET as YFT; and sometimes record both YFT and/or BET as SKJ.  Mixed small BET and YFT are often recorded as just YFT because they fetch the same cannery price, but information on BET is lacking so it is VERY IMPORTANT to report if this occurs.  Good observer reporting of these species is essential.
~ Catch or attempt to catch species of SPECIAL interest (SSI)	Whales, dolphins, turtles, whale sharks, birds, dugongs and seals, whether set on or caught by accident. Report at length if marine mammals are <u>deliberately set on</u> .  Describe if an animal: managed to escape by own means; was hauled onboard distressed or dead; was released; and, if released or escaped, was it injured or unharmed and on vessel attitude to SSIs. Also report all catch of species of special interest on PS-3 and GEN-2 forms.
~ Breach MARPOL regulations	MARPOL is an international Convention for the prevention of pollution from ships.  All mariners should be aware of the two basic principles. It is illegal to:  1. discharge any plastic product, netting, nylon line into the ocean anywhere;  2. discharge any garbage, perishable or other, within 12 nautical miles of land or a reef.  An exception is that perishables processed with a grinder may be dumped no closer than 3 miles from land.

An exception is that perishables processed with a grinder may be dumped no closer than 3 miles from land. Report in comments what vessel does with its rubbish and whether it has an incinerator on board.

# ~ Valid license document onboard

Licensing arrangements usually require the official license document to be maintained on board, ready for inspection on request by suitable people, including observers.

Record "X" in NO **only** if an original such document is available. Record "X" in YES if: no document; or if copy or faxed document; outdated document; or cover letter; is shown - report which and why, if possible.

		SPC/FFA REG	IONAL OBSEI	RVER	FORM GEN-6	
REVISED DEC. 2007 OBSERVER NAME		VESSEL NAME	OB	PAGE OF		
		- fill in one form fo	r <u>each</u> pollution i	incident -		
INCIDENT DETAILS			1			
Ship's DATE DD MM Y	and TIME Y hh mm	LATITUDE (dd °mm.mmm')	N/S	GITUDE E/W	, EEZ / HARBOUR	
WIND DIRECTION	WIND SPEED	SEA CONDITIONS (C, S, M, R)	CURRENT : (knts	and direction °)	OBSERVER'S VESSEL ACTIVITY	
NAME OF OFFEN	DING VESSEL	IRCS T	YPE OF VESSEL	YOUR POSITIO Compass Bearing	N FROM OFFENDING VESSEL Distance (nautical miles)	
		WASTE DU	MPED OVERBOAR	D		
Material Tick each box applies	that	Describe Type			be Quantity	
Plastics	*					
Metals						
Waste Oil						
Chemicals						
Old Fishing gear						
General Garbage (within 12 miles of shoreline)						
Shoreline)		OIL SPILLAG	SES AND LEAKAGE	ES .		
Source		ach box that Visual A	ppearance / Colou	ur Desc	ribe Area and Quantity	
Vessel Aground / Co		pplies			·	
Vessel at Anchor / E	Berth					
Vessel Underway						
Land based source	- Describe source					
Other - Please specifiy				·		
Other comments:						
		splayed to remind the			ns ? Y / N	
If there were any inf	-					
the MARPOL Regulo advise the Capta infringemen	ntions did you in of these	Y / N / NP	Y / N / NP  Did you take any photo If yes state the photo fra number -			
N.B.: Observers are not e. Usually they only observers		(NP = Not Possible due to language barrier)				
		MARPOL: any vessel to discard for any vessel to disca		s into the sea at an	•	

It is illegal for any vessel to dump any form of rubbish into the sea within 12 nautical mile of the sea 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.

Observer Name Put first name first, and your family name last.			
Vessel Name	Record the full name of the vessel. Do not use any abbrevations.		
Observer ID Number	Use the number assigned by the observer programme e.g. AA 03-01		
Page of	Number all GEN-6 pages in sequence from the start until the end of the trip		

Date of Incident (dd/mm/yy)	Date pollution seen in day, month and year.	Use ship's time as defined in other			
Time (00.00 hrs)	Report the time using the 24hr clock.	observer data collection forms			
Latitude / Longitude	Record the GPS positon of the host vessel who	en the pollution was first seen.			
EEZ / Harbour	Record the EEZ or, for shorebase staff, mark p	ort or Harbour name here.			
Wind Direction	The prevailing wind direction. Use degree eg. 90 degrees for an east wind				
Wind Speed	Record the prevailng wind speed.				
Sea Conditions	C- Calm, S- Slight, M- Moderate, R - Rough.				
Current (knts and direction)	If the vessel has a current meter find out what	the current strength is.			
	State the host (observer's) vessel activity at the	e time of the pollution incident.			
Observer's vessel activity	Some activities to consider might be:				
	fishing; transhipping; bun	kering; transitting; aground.			

Name of offending vessel	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.
IRCS	The international callsign is marked in large letters on the side of the boat.
Type of vessel	Consider the full vessel and aircraft codes on the front of Form GEN-1.
Your positon from offending vessel.	Use the vessel compass to get direction of offending vessel from host vessel.  The radar can be used to get an extact distance in nautical miles.  Otherwise give best estimate and note if it is the observer's or someone else's.

WASTE DUMPED OVERBOARD					
Material	Tick each correct box to show which types of materials were dumped.  Only tick two or more materials if vessel has dumped more than one material type 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.				
Describe type	Give as good a description as possible of the type of dumped material. E.g.: - plastic bags; bait boxes plastic strapping; bait boxes plastic bags; etc.				
Describe Quantities	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.				

	OIL SPILLAGES AND LEAKAGES
Source	Tick to indicate where the spillage or leak came from
Visual Appearance / Colour	Describe the colour/ thickness/depth of the spill as well as able.
Describe Area and Quantity	Give a best estimate of the size of the spill.
Describe Area and Quantity	The boat could be a size reference - e.g.: it was 4 times bigger than the boat.

# **Supplementary notes on Marpol Regulations**

Note: Vessels may dump garbage as close as 3 nautical miles to the shore if they have a 'comminuter' onboard (a machine that shreds garbage to tiny pieces).

Otherwise they cannot dump garbage within 12 nm of the coast. Report on all vessels dumping within 12nm of the coast. We can check if they have a comminuter onboard later.

### Country Codes

AS	American Samoa	NR	Nauru
AU	Australia	NC	New Caledonia
CK	Cook Islands	NZ	New Zealand
FM	Fed. States of Micronesia	NU	Niue
FJ	Fiji Islands	MR	Northern Mariana
FR	France	PW	Palau
PF	French Polynesia	PG	Papua New Guinea
GU	Guam	PH	Philippine
ID	Indonesia	RU	Russia
IW	International Waters	SB	Solomon Islands
JP	Japan	TW	Taiwan
TO	Kingdom of Tonga	TK	Tokelau
ΚI	Kiribati	TV	Tuvalu
KR	Korea	US	United States
CN	Mainland China	VU	Vanuatu
MY	Malaysia	WS	Samoa
MH	Marshall Islands		

# APPENDIX 8. SPC / FFA REGIONAL UNLOADING FORMS

- 1. Longline Unloading Form
- 2. Longline Unloading Destination Form
- 3. Purse-Seine and Pole-and-Line Unloading Form

SPC / FFA REGIONAL LONGLINE UNLOADING FORM															
PORT COMPLETED BY		COMPLETED BY	BY MONTH					YEAR			PAGE OF				
UNLOADING DATE	INFC	DRMATION ON T	HE VESSEL		YFT	NUMBERS AND BET	WEIGHT OF EAC	CH SPECIES I	IN CATCH MLS	BLM	SWO	OTHER 1	OTHER 2	OTHER 3	OTHER 4
	NAME		FLAG	No. Wt.											
	REG. No	WIN No	AGENT	No.											
	NAME		FLAG	EXPORT No. Wt.											
	REG. No	WIN No	AGENT	LOCAL No. Wt.											
	NAME		FLAG	EXPORT No. Wt.											
	REG. No	WIN No	AGENT	LOCAL No. Wt.											
	NAME		FLAG	EXPORT No. Wt.											
	REG. No	WIN No	AGENT	LOCAL No. Wt.											
	NAME		FLAG	EXPORT No. Wt.											
	REG. No	WIN No	AGENT	LOCAL No.											
	NAME		FLAG	Wt.  EXPORT No.											
	REG. No	WIN No	AGENT	Wt.  LOCAL No.											
	NAME	HIN NO	FLAG	Wt.  EXPORT  No.											
	REG. No		AGENT	Wt.  LOCAL  No.											
	FFA VID No	WIN No		Wt.											

# **Notes on LONGLINE UNLOADING FORM**

The Longline Unloading Form records how much fish is unloaded from longliners at end of each trip.

On each form, or forms if necessary, only record data for unloadings that begin in the same month.

# **GENERAL INFORMATION**

PORT The port of unloading.

YEAR The calendar year (e.g. 1999).

MONTH The month during which each unloading began.

COMPLETED BY The first and last name of the person who completed the form.

PAGE OF The PAGE number of this form OF the total number of pages used for the month.

# **UNLOADING DATE**

Place the first date of unloading here. Write the date as dd / mm / yy.

# **INFORMATION ON THE VESSEL**

NAME Full name of the longliner, including number if it has one (e.g., Catchit No. III).

FLAG The vessel nationality or country of registration (sometimes a flag of convenience).

AGENT The agent for the longliner, who is usually based in the port of unloading.

<u>REG. No.</u> Registration number issued by the country of registration (flag country) of the longliner

N.B.: this is not the fishing permit or license number and not usually the radio call sign.

FFA VID Print the number issued by the Forum Fisheries Agency.

WIN No Print the number issued by the Flag State.

# **HOW MUCH FISH IS GOING WHERE?**

Export Fish that are being transhipped for export.

Local Fish that are rejected or not needed for export and unloaded for the local market.

Number of fish.

Wt. Total weight of fish in kilograms.

# **SOME COMMON SPECIES CODES** (Check your FAO species codes list for others.)

YFT Yellowfin tuna, Thunnus albacares **BET** Bigeye tuna, Thunnus obesus ALB Albacore tuna, Thunnus alalunga BFT Bluefin tuna, Thunnus thynnus BUM Blue marlin, Makaira mazara **BLM** Black marlin, Makaira indica MLS Striped marlin, Tetrapturus audax **SWO** Broadbill swordfish, Xiphias gladius SFA Indo-Pacific sailfish, Istiophorus platypterus BIL Marlins, sailfish and spearfishes (unidentified)

SKH Unspecified sharks

OTHER Other species (please write in the code for the other species)

If a vessel is known to have unloaded, but the amounts are not available, then the first date of unloading, the vessel name, registration, flag and agent should still be recorded.

#### REVISED: NOV 2007 CARRIER VESSEL (if not unloading to an on-shore facility) FISHING VESSEL FISHING VESSEL NAME FIRST DATE ON LOGSHEET LOCATION (Enter the PORT NAME or at-sea POSITION) FFA VESSEL REGISTER No. LAST DATE ON LOGSHEET FIRST DAY OF UNLOADING LAST DAY OF UNLOADING FLAG FLAG FFA VID WCPFC IDENTIFICATION No. FULL OR PARTIAL UNLOAD AGENT / COMPANY REGIST. NO. IRCS REGIST. NO. IRCS WIN NO. FOREIGN MARKET DESTINATION LOCAL, CANNERY OR OTHER PROCESSING MARKETS OTHER CANNERY **SPECIES** NAME / COUNTRY **JAPAN** LOCAL MARKET KG / LB KG / LB KG / LB KG / LB NO. NO. KG / LB NO. KG / LB NO. KG / LB NO. NO.

**TOTAL** 

SPC / FFA REGIONAL LONGLINE UNLOADING DESTINATION FORM

# Notes on the LONGLINE UNLOADING DESTINATION FORM

The Longline Unloading Destination Form records the amount of fish unloaded from a longline vessel as well as the final destination of the unloaded fish. All fish unloaded from the vessel should be accounted for. *Fill in a form for every unloading. Use more than one form if required.* 

### **GENERAL INFORMATION**

LOCATION	The name of the port where the unloading took place, or the latitude/longitude position if the
	unloading took place at sea.
FIRST DAY OF UNLOADING:	The first date that fish were unloaded from the vessel.
LAST DAY OF UNLOADING:	The last date that fish were unloaded from the vessel.
COMPANY OR AGENT:	The full name of the company or agent handling the unloading.

# FISHING VESSEL INFORMATION

VESSEL NAME:	Write in the full name of the vessel as recorded on the country registration certificate.		
FLAG:	The name of the country issuing the registration certificate.		
REGISTRATION NUMBER:	The vessel's registration number as written on the county registration certificate.		
FFA VESSEL REGISTER	<b>P</b> rint the number issued by the Forum Fisheries Agency.		
NUMBER {FFA VID}:			
WCPFC IDENTIFCATION	Print the number issued by the Flag State.		
NUMBER {WIN NO}:			
FIRST DATE ON LOGSHEET:	The first date that appears on the logsheet for the most recent trip (corresponding to this unloading).		
LAST DATE ON LOGSHEET:	The last date that appears on the logsheet for the most recent trip (corresponding to this unloading).		
FULL//PARTIAL UNLOADING	Indicate (Y or N) whether the vessel unloaed all catch (Y) or the vessel return to fish without		
	unloading all of its catch (N).		

### **CARRIER VESSEL INFORMATION** (if not unloading to an on-shore facility)

(CARRIER) VESSEL NAME:	Write in the full name of the vessel as recorded on the country registration certificate.
FLAG:	The name of the country issuing the registration certificate.
REGISTRATION NUMBER:	The vessel's registration number as written on the county registration certificate.
FFA VESSEL REGISTER NUMBER	<b>P</b> rint the number issued by the Forum Fisheries Agency.
{FFA VID}:	
WCPFC IDENTIFCATION	<b>P</b> rint the number issued by the Flag State.
NUMBER {WIN NO}:	

# SPECIES UNLOADED AND DESTINATION

SPECIES: On the same line as the species name (or species code) show the final destination of the fish by placing the total

number and the total weight unloaded under the appropriate final destination columns. *Both* the weight and the number should be stated. See the example above. Use the FAO species codes when known.

**FRESH or FROZEN (FR / FZ)**: Mark the code (FR) if the unloaded fish are <u>not</u> frozen (i.e. in a "fresh" state), or mark the code (FZ) if the unloaded fish are frozen.

	SPECIES (	CODES	
YFT	YELLOWFIN	swo	SWORDFISH
BET	BIGEYE	SFA	SHORT BILLED -
ALB	ALBACORE		SPEARFISH
вим	BLUE MARLIN	WAH	WAHOO
MLS	STRIPED MARLIN	DOL	МАНІ МАНІ
BLM	BLACK MARLIN	LAG	OPAH

**WEIGHT CODE**: Indicate the state of the fish when unloaded, use the <u>weight codes</u> below.

**No.**: Record the total number of the species sent to this destination.

**Kg/lb**: Record the total weight of the species sent to this destination. *Circle* the appropriate unit of weight. Kg for kilograms and lb for pounds.

	WEIGH	HT CC	DDES
ww	WHOLE WEIGHT	GX	GUTTED, HEADED, TAILED
GH	GUTTED, HEADED	GO	GUTTED ONLY, NOT GILLED
GG	GILLED & GUTTED	SF	SHARK FINS
GT	GILLED, GUTTED, TAILED	NM	NOT MEASURED

### **FOREIGN MARKET DESTINATIONS:**

Use these columns if the unloaded fish are exported from the country or transported by carrier for the fresh or frozen sashimi-grade market. You may also use the two blank fields to fill in a country name if any fresh sashimi-grade exports are sent to countries other than Japan and USA.

# LOCAL, CANNERY or other PROCESSING MARKETS:

Use these columns if the fish are sold locally, or processed locally for other export markets, for example, canneries, loining etc. Cannery: For fish sent to canneries please state the name and the country of the cannery.

Other: Fill in the name of any other final destination for unloaded fish which are not for the sashimi markets and canneries.

		SPC / FFA	RE	GIONAL	UNLOA	ADING	FORM	FOR	PUR	SE SEINI	E and P	OLE-A	ND-LII	NE VE	SSE	LS			
REVISED: NO	V 2007																		
PORT				COMPLETED BY	(						MON	TH			YEAR		PAG	E OF	
LOADIN	G DATES	NAME OF CARRIER,								DETAIL	S OF CARRIE	D VESSE			1				
FIRST	LAST DAY	COOLSTORE OR CANNERY		FLAG	REGISTRAT	ION No.	SHIPPING C	OMPANY		DETAIL	3 OF OATHIE	IT VESSE	-		DESTIN	ATION			
		<u> </u>		WCPFC IDENTII	FICATION No.		FFA VESSE	L REGISTE	R No.	PERMIT No.					CAPTAII	N			
							LOADING	DATEO		14	/FIGUE OF F	A OLL ODE	NEO (T)						
IF ANSW	ER IS YES	FILL THE OTHER FIELDS IN THAT I	LINE.	YES or NO		LOADING ORE NAME	LOADING	END	S	KJ Y	/EIGHT OF E	YFT	BET		ET	YFT/BE	SKJ/YI		TOTAL
1. WERE A	NY FISH ON	I BOARD WHEN VESSEL ARRIVED	?							: 9	kgs	> 9 kgs	? 9 kgs	> 8	kgs		. 521		
2. WERE F	ISH LOADEI	FROM A COOLSTORE AT THIS P	ORT ?																
UNLOADI	NG DATES	DETAILS OF UNLOADING	G VESS	EL	TRIP	DATES				WEIGHT OF EAC	CH SPECIES (r	nT)				(	OTHER Sp.		FULL OR
FIRST DAY	LAST DAY	VESSEL NAME REGISTRATION No.	FLAG	WIN No. FFA VID	START	END	SKJ		YFT 9 kgs	YFT > 9 kgs	BET ? 9 kgs	BE > 9		T / BET	SKJ/Y	FT BET		TOTAL	PARTIAL
					_														
					-														
					-														
					-														
					-														

# Notes on UNLOADING FORM FOR PURSE SEINE AND POLE-AND-LINE VESSELS

- Use this Unloading Form to record amounts of fish delivered to canneries, cold stores or carrier vessels from purse seine or pole-and-line boats. Use one (or more) page per MONTH for each carrier vessel, coolstore or cannery.
- All dates should be recorded using the first three letters of the month, e.g. 26 Jul or Jul 26.

**HEADER INFORMATION** 

PORT The port of unloading

COMPLETED BY The first and last name of the person who was mainly responsible for filling out this form

MONTH The month during which unloading took place

YEAR The calendar year

PAGE ? OF ?? ? = The page number and ?? = the total number of pages for the month

# **LOADINGS** (in to a Carrier Vessel, Coolstore or Cannery)

LOADING DATES

The day the carrier, cannery or coolstore (that is named in this section) started loading and the day they finished loading fish from all the unloading vessels that are listed on this form

NAME OF CARRIER, COOL STORE OR CANNERY

Full name with no abbreviations

**CARRIER VESSEL'S DETAILS** 

FLAG The country that the vessel is registered in (also called Vessel Nationality)
REGISTRATION No. The registration number of the fishing vessel given by the FLAG country

FA VESSEL REGISTER No Print the Regional Vessel Register number as issued by the Forum Fisheries Agency

WCPFC IDENTIFCATION N Print the WCPFC identification number as issued by the Flag State.

SHIPPING COMPANY The name of the shipping company that owns or charters the carrier to load fish

CAPTAIN The full name of the Captain of the carrier vessel

PERMIT No. The number of the permit under which the carrier is allowed to tranship fish in this port

DESTINATION The final destination for the fish on board the carrier

## FISH ON BOARD or FISH FROM COOL STORE

**Answer YES or NO to both question 1. and 2.** (If the answer is yes then complete rest of information in that row)

PORT OF LOADING / Name of port where the fish that is already on carrier was picked up .... or COOLSTORE NAME Name of the coolstore that is loading fish on to the carrier in this port

LOADING DATES

(of fish that were loaded at another port or were loaded from a coolstore at this port)

The day the carrier started and the day it finished loading fish in the previous port .... or

The day the cool store started and the day it finished loading fish on to the carrier at this port.

WEIGHT OF EACH SPECIES (mT)

SKJ, YFT, BET

The amount (metric tonnes) of skipjack, yellowfin and bigeye already on board when carrier arrived

in this port, or that the carrier loaded from a cool store in this port

 ${\tt YFT/BET,\ SKJ/YFT/BET-Use\ only\ when\ separate\ weights\ (mT)\ of\ each\ of\ YFT\ and\ BET\ on\ board\ are\ not\ known.}$ 

OTHER Sp. The amount (metric tonnes) of any other species already on board or loaded from cool store.

Write the name of the species (or FAO 3-letter code) at the top of each of this column.

TOTAL The total amount (metric tonnes) of fish previously on board or being loaded from cool store

# DETAILS OF VESSEL UNLOADINGS TO CARRIER, COOL STORE or CANNERY

UNLOADING DATES First day is the day fish first start moving onto the carrier from this fishing boat.

FIRST / LAST DAYS The last day is the last day that any fish were moved from this fishing boat onto the carrier

DETAILS OF UNLOADING VESSELS (purse seiners and pole-and-line boats)

NAME The name of the unloading vessel

FLAG The county that the unloading vessel is registered in (also called Vessel Nationality)

REGISTRATION No. The registration number of the unloading vessel given by the FLAG country

TRIP DATES START Start of the fishing trip that has just finished catching fish for this unloading

END End of fishing trip that has just been completed (day of arrival in this port)

WEIGHT OF EACH SPECIES (mT)

SKJ, YFT, BET The amount (metric tonnes) of skipjack, yellowfin and bigeye loaded on to the carrier vessel. YFT / BET, SKJ / YFT / BET - Use only when the separate weights of unloaded YFT and BET species are not known.

OTHER Sp. The amount (metric tonnes) of each other species being loaded on to carrier.

Write the name of the species (or FAO 3-letter code) at the top of this column.

TOTAL The total amount (metric tonnes) loaded on to carrier vessel

FULL OR PART UNLOADING If fishing vessel unloads all fish write "FULL" unloading

If fishing vessel only unloads some of its catch write "PART" unloading

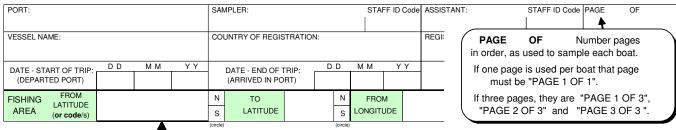
- Each line represents a single port of call by a vessel. If a vessel unloads all its catch in one day, then the first day and last day are the same. If a vessel takes more than one day to unload you should still record total amounts unloaded.
- Vessel registration should be completed whenever possible (particularly important for identifying Taiwanese vessels).
- If a vessel is known to have unloaded, but the amounts unloaded are not available, the dates, vessel name, registration number and nationality should still be recorded on the form.

# APPENDIX 9. SPC / FFA REGIONAL PORT SAMPLING FORMS

- 1. Longline Port Sampling Form
- 2. Purse-Seine Port Sampling Form
- 3. Pole-and-Line Port Sampling Form
- 4. Troll Port Sampling Form

#### SPC / FFA REGIONAL LONGLINE PORT SAMPLING FORM REVISED: DEC 2007 PORT: SAMPLER: STAFF ID Code ASSISTANT: STAFF ID Code PAGE OF VESSEL NAME: COUNTRY OF REGISTRATION: REGISTRATION NUMBER: D D ММ ΥΥ D D ММ ΥΥ D D ММ ΥΥ DATE - START OF TRIP: DATE - END OF TRIP: DATE OF SAMPLE: (DEPARTED PORT) (ARRIVED IN PORT) Ν Ν Е FISHING FROM LATITUDE LATITUDE LONGITUDE AREA S S W LONGITUDE W (or code/s) LENGTH WEIGHT **EXPORT** OTHER LENGTH WEIGHT **EXPORT** OTHER **SPECIES** CODE **SPECIES** CODE CODE KG CODE CM CODE KG CODE 26 27 28 29 30 31 32 33 34 35 36 37 13 38 39 15 40 41 16 42 17 18 43 19 20 45 21 46 22 47 23 48 24 49 25 50 Indicate by circling on all COMMENTS: IF UNABLE TO RECORD UNMEASURED FISH ABOVE then TALLY and TOTAL THOSE FISH HERE: TUNA forms. and other COMMENTS Ea: FSH WWWWWWW/=41 WERE ALL THE FISH Y / N Y / N UNLOADED? WE ALL THE UNLOADED Y/N Y / N FISH ALL MEASURED? Table of fish counts (for unmeasured fish only ) SPECIES DID THE SAMPLER CHECK THE FISH Y / N HOLD? BILLFISH LENGTH CODES OTHER SPECIES LENGTH CODES WEIGHT CODES LF LOWER JAW TO CAUDAL FORK WW WHOLE WEIGHT GX GUTTED, HEADED, TAILED UF UPPER JAW TO CAUDAL FORK PF PECTORAL TO CAUDAL FORK US UPPER JAW TO SECOND DORSAL GH GUTTED, HEADED GO GUTTED ONLY, NOT GILLED PS PECTORAL TO SECOND DORSAL PS PECTORAL TO SECOND DORSAL GG GILLED & GUTTED SF SHARK FINS NM NOT MEASURED NM NOT MEASURED GILLED, GUTTED, TAILED NOT MEASURED NM OTHER SPECIES SPECIES YFT BET ALB swo MLS BLZ BLM SFA NUMBER SUM LENGTHS SUM WEIGHTS

# NOTES ON LONGLINE PORT SAMPLING FORM



# This header should be filled in completly.

If more than 50 fish are sampled from a single unloading, use additional forms and be sure to fill in all fields on the additional pages. Especially fill in the port, vessel name and date of sample, which must be re-entered exactly as they appear on the first page.

Port = port of unloading

**Sampler and Assistant**: Always use the full (first and last) name of the sampler (person measuring the fish), also when there is only one person and assistant (person writing measurements on form).

**Staff id code**: Fill in the sampler's and the assistant's unique Field Staff ID Code as issued by your supervisor.

Date at Start of Trip } all dates must have two digits for days

Date at End of Trip } two digits for month and 2 digits for year

Date of Sample } put a "0" in front of single digit dates

E.g.: February 3rd, 1997 is written as "03 02 97"

**Fishing Area**: Record the limits of latitudes and longitudes to the nearest whole degree, if possible.

If using a **FISHING AREA code or codes**, place them in the "FROM LATITUDE" box and dashes in the other 3 position boxes.

**Country of Registration** (flag) and **Registration Number**: The country in which the vessel is registered and registration number that the country issued to the vessel. This may be on the vessel bow. If not then check the registration papers somewhere on the

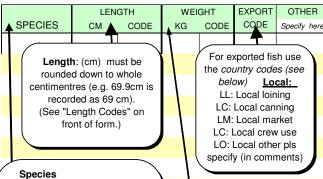
### Important!

Try to record every fish even if you are unable to measure it. If possible also check the vessel for fish that are kept back for crew's use. Record fish not sampled in the space provided

below (see example\* below, to the right)

125 UF 56

Typical example of a record for yellowfin landed for export to Japan



Code Common Name

YFT Yellow fin BET Bigeye

ALB Albacore SKJ Skipjack

MLS Striped marlin

BUM Blue marlin
BLM Black marlin

SWO Swordfish

SSP Short-billed spearfish

MAK Mako sharks

FAL Silky shark

DOL Mahimahi

RRU Rainbow runner

LAG Opah

WAH Wahoo

COM Spanish mackerel TST Sickle pomfret

Group codes

BRZ Breams and pomfrets
BIL Marlins, spearfish, sailfish

SKH Sharks

SHF Shark fins (bags)

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

Weight: (kg) in kilograms must be recorded to the first decimal place (e.g. 58.79kg is written as 58.8kg, 55.55kg as 55.6kg, 52.31kg as 52.3kg)

See "Weight Codes" on front of form.

#### Country codes:

AS - American Samoa

AU - Australia EU - Europe

HK - Hong Kong

HI - Hawaii

JP - Japan

NZ - New Zealand

TW - Taiwan

US - Mainland US

OT - Other

The "Other" column at far right is for extra information you may be asked to collect. E.g.: an extra measurement for conversion factor purposes

_		-			5			
	Indicate by circling on all	TUNA	BIL	COMMENTS:	IF UNABLE	TO RECC	RD UNMEASUR	ED FISH ABOVE then TALLY and TOTAL THOSE FISH HERE:
L	forms.	101421	DIL	ar	nd other Co	OMMENTS	3	Eg: FSH 燃燃燃燃燃燃/=4
ſ	Were they all	Υ /	Υ /	TT771	7 7	7	7. 7 7	
	unloaded ?	N	N	Ea: When	i asked n	yhy no m	arlın unloade	d the Captain said it was unloaded to Grabit Co
	Were all the	Y / N	Y / N					/
	unloaded fish all	I / N	f / IN	Table of fi	sh counts	s (for u	nmeasured fig	Fish counts (first page only): - Display the sum of your
Ī	Did the sampler o	check	Y / N	SPECIES			4	
	the fish hold	?	, Y / IN	NUMBER				fish tallies for all unmeasured fish neatly in this table on the first page that you use.
	(Circle      ) (   ( )					$\overline{}$		the hist page that you use.

Circle "Y" (yes) or "N" (no) for all questions. for tuna and billfish (BIL). If a few fish are kept back for the crew and not unloaded you can answer "Y". Only circle "N" when several fish are being kept on board to be off-loaded at another place, time or market. All of these questions must be answered on all submitted forms. Hint: You will give the exact same answer on every form used for the same unloading, and you won't be able to answer these questions until the end of sampling.

NUMBER
SUM LENGTHS
SUM WEIGHTS

\*Example: Forty-one of these low valued species were rapidly unloaded to bins while other export species were being measured.

<u>Number</u> (Port sampler should always add these) <u>Sum of Lengths</u> and <u>Sum of Weights</u>

( The results are used by staff

who enter data into computers, to check that they have made no mistakes. Some countries also now use this information to add directly to TUFMAN)

Only add up for the species measured on this form Don't include counts that are in the "Record Counts of Fish Not Sampled and Comments" box.

		SPC	/ FFA RE	GI	ONAL P	URSE	SEINE	POR	T SA	AMPLIN	G FORM	Λ	
PORT			SAMPLER'S	NAME		St	aff id code	ASSISTAN	NT'S NAM	ME	Sta	ff id code PAG	E OF
CARRIER OR CA	ANNERY			/ESSE	EL NAME				Lcc	DUNTRY OF REC	SISTRATION	REGISTRATIO	ON No
0,11111211 011 0				2001						, o		11.20.011.011	
DATE AT STAI (departed fi	0	D M	M YY	DA	ATE AT END OF (arrived in po		D D M	M Y	Y	DATE O	F SAMPLE	D D	M M Y Y
SET DETAILS	(to be obtained												
MONTH DAY	LATITUDE ddmm.mmr		LONGITUDE dddmm.mmn	1 N	SCHOOL W ASSOC.	SET STAR	T SKIPJA WEIGI		LOWFII EIGHT	WEIGHT	OTHER NAME	SPECIES WEIGHT	WELL NUMBERS
SAMPLING S	Γ <b>RATEGY</b> (very	/ importan	t)								SA	│ MPLED WELL	
Please tick correct box			S - species cor PECIES - length				ncy samp	ole i		ecord all weigl	nts in		NUMBER
SPECIES and	LENGTH DATA					<u> </u>							
SPECIES CODE	LENGTH	SPEC COI		4	SPECIES CODE	LENGTH	SPECI		NGTH	SPECIES CODE	LENGTH	SPECIES CODE	LENGTH
1		26		51			76			101		126	
2		27		52			77			102		127	
3		28		53			78			103		128	
4		30		55			79			104		129	
6		31		56			81			106		131	
7		32		57			82			107		132	
8		33		58			83			108		133	
9		34		59			84			109		134	
10		35		60			85			110		135	
11		36		61			86			111		136	
12		37		62			87			112		137	
13		38		63			88			113		138	
14		39		64			89			114		139	
15		40		65			90			115		140	
16		41		66			91			116		141	
17		42		67			92			117		142	
18		43		68			93			118		143	
19		44		69			94			119		144	
20		45		70			95			120		145	
21		46		71			96			121		146	
22		47		72			97			122		147	
23		48		73			98			123		148	
24		49		74			99			124		149	
25		50		75			100			125		150	
DATA ENTRY	VERIFICATION		SKJ		YFT	E	BET	ОТЬ	HER		ASSOCIATION		oft FAD
	EACH SPECIES										ng on baitfish	6 Live marine 7 Live whale	
$\Sigma$ LENGTHS	FOR EACH SPE	ECIES								dea	d animal g raft, FAD or pa	8 Other	

#### Notes for PURSE SEINE PORT SAMPLING FORM

The Purse Seine Port Sampling Form is used to record lengths of fish that are unloaded from purse-seiner vessels at the end of a trip. Only use the form to sample fish from wells where the set details for every set loaded into the well can be obtained. Also, these set details must include the date, the position and the school association, and meet the selection criteria as outlined below.

HEADER INFORMATION I	f you measure more than 150 fish, use extra forms. Every form you submit must have all the
header details filled in entirely. A	All dates should be recorded using the 2-digit number format for each of day 'D D', month 'M
M' and year 'Y Y' in that order.	
PORT	he name of the port where the vessel unloading took place.
SAMPLER: STAFF ID CODE The	e first and last name of the person measuring the fish, and their 3 (or 2) letter staff id code. If
only one person is doing the sam	apling then mark that person's name here.
ASSISTANT: STAFF ID CODE The	first and last name of the person recording the data, and their 3 (or 2) letter staff id code.
PAGE _ OF _	Number your pages in sequence until you have finished your sample. A sample includes all
the fish you will sample from the	e same well using the same sampling protocol. If you change wells or change your sampling
protocol, start a new page 1 and number	your pages in sequence until you have finished your sample. When your sample is finished,
go back and fill in the total number of	pages in that sample i.e. page 1 of 5, where 5 is the total number of pages for the
sample.	
COUNTRY OF REGISTRATION	The nationality of the vessel as noted on the county registration certificate or license.
DATE OF DEPARTURE	The date the vessel left port at the beginning of its last trip.
DATE OF ARRIVAL	The date the vessel returned to port at the end of the trip.
DATE OF SAMPLE	If the well unloading takes place over more than one day put the first date of unloading

# **SET DETAILS** - Get this information from vessel logsheets.

For selected wells that meet the appropriate selection criteria, transcribe every line with that well number from the logsheet.

It is very important that you write out <u>all the logsheet details</u> from the logsheet straight onto your port sampling form. Don't forget the well numbers at the end. If there is no information for a data field on the logsheet, place a dash on your form.

### SAMPLING STRATEGY - (Hint: Only do a non-random sample when directed to do so by your supervisor.)

RANDOM SPECIES Tick when there is no pre-selection of species by the sampler, the most common type of sample. NON-RANDOM SPECIES Tick when the sampler pre-selects the type of species they intend to sample.

SAMPLED WELL Record the 'WELL NUMBER' that was sampled and the 'WEIGHT OF FISH IN WELL'. Record all weights in metric tonnes.

Random
Sampling
Five fish must
be taken from
every net
unloaded from
the well, until

SPECIES AND LENGTH DATA - Take length measurements from the tip of the upper jaw to the fork in the tail.

SPECIES Species codes, for example: SKJ; DOL; YFT; RRU.

LENGTH The length, in centimetres, rounded down to the nearest centimetre (e.g. 67.9 cm will be recorded as 67 cm).

**DATA ENTRY VERIFICATION** (Do this to help check that your data has been entered properly.)

NUMBER OF EACH SPECIES Add up the total number of each species recorded on this form.

 $\Sigma$  LENGTHS FOR EACH SPECIES ( $\Sigma$  = sum of) Add up the lengths of each species separately. Don't mix them.

# A Sampler's Guide to Selecting Appropriate Wells for Sampling

- Secure a copy of the vessel logsheet and, if available, the vessel well plan. Ensure the well numbers are recorded on the vessel's logsheet. If they are not, return the logsheet to the captain, and ask that they are filled in. You can use the 'Well Loading Worksheet' to select an appropriate well or follow the numbered steps below. The best approach is to check the set detail information for every well before the vessel starts unloading. Alternatively, you can check the set details of the next well to be unloaded. Wells filled with fish from just one set are good wells to sample, but the sampler should try to
- 1. Decide which well you want to sample, then glance down the 'well numbers' column on the logsheet.
- 2. When you spot the well number of the well you want to sample, highlight it. Then, highlight that entire line on the logsheet. Check to see if the same well number is written on any other lines on the logsheet. Highlight those lines also.
- 3. You can now see all the set details for the well clearly.
- 4. Check to see if the set details of the well indicate it is an appropriate well for sampling.

WELL SELECTION CRITERIA FOR HIGHLIGHTED SET DETAIL INFORMATION

School Association: Only sample wells where all the set details show the same school association.

Date of Set: First Choice: Sample wells where all the set details show the same calender month.

Second Choice: Sample wells where all the set details have dates 7 days before or 7 days after the same calender month.

<u>Third Choice</u>: Sample wells where all the set details have the dates from the same calender quarter (i.e Jan.—March).

Fishing Area: First Choice: Set details showing sets made in the same  $5^{\circ} \times 5^{\circ}$  area.

<u>Second Choice</u>: Set details showing sets made in the same  $5^{\circ} \times 10^{\circ}$  or  $10^{\circ} \times 5^{\circ}$  area.

<u>Third Choice</u>: Set details showing sets made in the same  $10^{\circ} \times 20^{\circ}$  or  $20^{\circ} \times 10^{\circ}$  area.

#### SPC / FFA REGIONAL POLE-AND-LINE PORT SAMPLING FORM REVISED: DEC. 2007 SAMPLER: Staff ID Code PORT: ASSISTANT: Staff ID Code PAGE VESSEL NAME: COUNTRY OF REGISTRATION: REGISTRATION NUMBER: D D ММ ΥΥ D D ММ ММ ΥΥ DATE AT START OF TRIP: DATE AT END OF TRIP: DATE OF SAMPLE: (departed from port) (arrived in port) TO TO Ε **FISHING** FROM Ν Ν **FROM** Ε AREA LATITUDE LATITUDE LONGITUDE LONGITUDE s S W W WEIGHT OF CATCH ( KG) from unloadings records after sampling OTHER SPECIES SORTING - VERY IMPORTANT! TICK ONE BOX BELOW SKJ YFT BET YFT & BET MIXED TUNA SIZE SORTED FISH ⇨ SIZE CLASSES Not sorted before sample Sorted by species only $\Rightarrow$ Eg: 3 to 6 kg. Sorted by size and species $\Rightarrow$

#### IF MEASURING SORTED CATCH

- Record only ONE size class of fish in each column. Use two or more columns for each size class if necessary.
- <u>AT THE TOP OF EACH COLUMN write in the size class</u> which is recorded in that column

 $\Rightarrow$ 

⇨

### IF MEASURING CATCH THAT HAS NOT BEEN SORTED

Record weight of each species landed. Record size class of sorted fish at right.

■ Be sure that the fish you measure are collected RANDOMLY from throughout the unloading.

SIZE CLASS =		SIZE CLASS =		SIZE CLASS =		SIZE CLASS	=	SIZE CLASS =		SIZE CLASS =	
SPECIES	LENGTH										
CODE	(cm)	CODE	(cm)	CODE	(cm)	CODE	( cm )	CODE	( cm )	CODE	( cm )
1		26		51		76		101		126	
2		27		52		77		102		127	
3		28		53		78		103		128	
4		29		54		79		104		129	
5		30		55		80		105		130	
6		31		56		81		106		131	
7		32		57		82		107		132	
8		33		58		83		108		133	
9		34		59		84		109		134	
10		35		60		85		110		135	
11		36		61		86		111		136	
12		37		62		87		112		137	
13		38		63		88		113		138	
14		39		64		89		114		139	
15		40		65		90		115		140	
16		41		66		91		116		141	
17		42		67		92		117		142	
18		43		68		93		118		143	
19		44		69		94		119		144	
20		45		70		95		120		145	
21		46		71		96		121		146	
22		47		72		97		122		147	
23		48		73		98		123		148	
24		49		74		99		124		149	
25		50		75		100		125		150	
$\Sigma$ lengths	·	$\Sigma$ lengths									

#### Notes for POLE-AND-LINE PORT SAMPLING FORM

Use Pole-and line Port Sampling Forms to record lengths of fish unloaded from pole-and-line vessels at end of a trip. Only sample fish for which you can obtain good information about area caught and time period of fishing. Most pole-and-line vessels trips are short and there is enough information in basic trip details. If sampling a large, distant water, pole-and-line boat, try to sample fish from a 5-degree by 5-degree square, landed during the same month.

If the sample from a single sampling session has more than 150 fish, use additional Pole-and-line Port Sampling Forms. *Port, vessel name and date of sample* must be re-entered on each extra page exactly as they appear on the first page.

All dates to be recorded using 2-digit number for each of day "DD", month "MM" and year "YY" in that order. To do this put a "0" in front of single digit numbers. E.g.: write the "3rd of January", 1996 as 03 01 96.

### **HEADER INFORMATION**

PORT	The port of unloading
SAMPLER	The first and last name of the person measuring the fish. If only one person sampling
fill in 'sampler'.	
ASSISTANT	First and last name of person writing measurements, if different from the sampler
VESSEL NAME	Full name of boat (no abbreviations), with number if there is one (e.g.: Skippy 3)
COUNTRY OF REGISTRATION	N. The vessel nationality
REGISTRATION NUMBER	A number issued to the vessel by the country of registration (flag country)
DATE AT START OF TRIP	The date the vessel left port at the beginning of the trip
DATE AT END OF TRIP	The date the vessel returned to port at the end of the trip
DATE OF SAMPLE	The day the sample was taken. The first date of sampling if sampling was over several

### FISHING AREA - get this information from vessel logsheets!

Write down the two lines of latitude and the two lines of longitude between which fishing took place. Usually this is a box which surrounds the area that the fishing took place throughout a trip but if sampling a large, distant water, pole-and-line boat this will be the  $5^{\circ}$  x  $5^{\circ}$  square or other area identified as being where the sampled fish came from.

### **SORTING** - Only ONE box must be ticked.

Normal practice is to try to sample the fish before they get sorted during the unloading process.

To do this collect specimens entirely at random spread all through the unloading.

This will give a good sample to be used for species composition and length frequency analyses.

TICK THE UPPER BOX in this case.

Sometimes fish is sorted into different species before the port sampler can collect specimens to measure.

The sampler must collect specimens of each species from all through the catch but must TICK THE SECOND BOX.

The sampler must also be sure to collect the unloading weight of each species when unloading is complete

If sorting is also by size class before measuring, sample fish from each size class separately. TICK THE THIRD BOX. The sampler must be sure to collect the total unloading weight of each size class and species at the end of unloading.

# Always try to measure fish before they are sorted if possible!

WEIGHT OF CATCH. The weight of all fish unloaded must be obtained and recorded in this table.

### Try to get the unloading weight of each individual species.

If the catch has bigeye tuna that is **not separated** from yellowfin tuna, record the combined YFT & BET weight. If skipjack and other tunas are not sorted during unloading then the MIXED TUNA weight will need to be recorded. Recording weight of MIXED TUNA should only be a last resort if individual species weights cannot be obtained. If there are difficulties with weights then write a brief note about it in the spare lines on the table.

# SIZE CLASS

If fish can only be measured after it has been sorted then there are TWO IMPORTANT REQUIREMENTS.

- Each size class must be recorded in the right hand column of the WEIGHT OF CATCH table.
   The weight of each size class must then be recorded in the correct species columns alongside the recorded size class.
- 2. The lengths of fish from only one size class should be entered in each column when recording measurements. Each column must have the size class of the fish in it noted at the top of the column.

**SPECIES and LENGTH DATA** Take length measurements from the tip of the upper jaw to the fork of the tail.

SPECIES Species codes, for example: SKJ; DOL; YFT; RRU

LENGTH The length, in centimetres, rounded to the nearest centimetre down. I.e.: 67.9 cm becomes 67 cm.

\(\sum \) LENGTHS (= sum of lengths): - Add up lengths in the column directly above. This is used for data entry checking.

# SPC / FFA REGIONAL TROLL VESSEL PORT SAMPLING FORM

		SPC / F	FA RI	=GIC	ONAL	IROL	L \	/ESSEL	POR	1 8	SAMP	LIN	IG FOR	M			
PORT:				8	AMPLER:			Sta	ff id Code	ASS	ISTANT:		Sta	ff id C	ode PAG	E	OF
VESSEL NAME	<u>:</u>			C	OUNTRY OF	REGISTRA	TION:			REG	SISTRATIO	N NUN	MBER:				
DATE AT STAF (DEPARTED FI		D D M	<u>им ү</u>		ARRIVED IN P		D	D MM	YY	DAT	E OF SAMI	PLE:		D	<u>Б М</u>	M	YY
FISHING AREA	A: FROM		N S	T ATITUD			N S	FROM LONGITUDE				E W	TO LONGITUDE				E W
SPECIES	LENGTH	H SPECIES		тиТ	SPECIES	LENG		SPECIES	LENG	TU	SPECI			e n	ECIES		NGTH
CODE	(cm)	CODE	(cm		CODE	(cm		CODE	(cm		COD		(cm)		ODE		(cm)
1		26		51				76			101			126			
2		27		52	2			77			102			127			
3		28		53	3			78			103			128			
4		29		54	ļ			79			104			129			
5		30		55	j			80			105			130			
6		31		56	3			81			106			131			
7		32		57				82			107			132			
,																	
8		33		58	3			83			108			133			
9		34		59	)			84			109			134			
10		35		60	)			85			110			135			
11		36		61				86			111			136			
12		37		62	2			87			112			137			
13		38		63	3			88			113			138			
14		39		64				89			114			139			
15		40		65	j			90			115			140			
16		41		66	3			91			116			141			
17		42		67	,			92			117			142			
18		43		68	3			93			118			143			
19		44		69	)			94			119			144			
20		45		70	)			95			120			145			
21		46		71				96			121			146			
22		47		72	2			97			122			147			
23		48		73	3			98			123			148			
24		49		74	ı			99			124			149			
25		50		75	5			100			125			150			
	SPECIES:																
	NUMBER:																
SUM OF LE																	
COMMENTS																	

# SPC/FFA REGIONAL TROLL VESSEL PORT SAMPLING FORM INSTRUCTIONS

If more than 150 fish are sampled from a single unloading, use additional forms. If using additional forms be sure to fill in all fields on the extra pages, **especially fill in the port, vessel name and date of sample,** which must be re-entered exactly as they appear on the first page.

# **GENERAL INFORMATION**

PORT The port of unloading

SAMPLER First and last name of person measuring the fish

Staff ID Code Fill in your three (or two) letter staff id code. If only one person is doing

the sampling then fill that person's name in here.

ASSISTANT First and last name of person recording measurements, if different from

the sampler

Staff ID Code Fill in your three (or two) letter staff id code.

PAGE OF Number forms (pages) out of the total that are used each sampling session.

If only one page is used in a session that page should be "PAGE 1 OF

1 "

but three will be "PAGE 1 OF 3, PAGE 2 OF 3 and PAGE 3

OF 3 "

VESSEL NAME Name of the fishing vessel

COUNTRY OF REGISTRATION Country that the vessel is registered in (also known as "Flag" country)

REGISTRATION NUMBER The number allocated to the fishing vessel by country of registration

DATE AT START OF TRIP

DATE AT END OF TRIP

order

Record dates using two digits for each of day, month and year, in that

(DD MM YY). Do this by placing a "0" in front of single digit numbers.

E.g.: write the 3rd of January, 1996 as "03 01 96". The date of the sample is the first date of the sample

FISHING AREA Record the northern and southern most limits of latitude and eastern and

western most limits of longitude to the nearest whole degree if possible.

### SAMPLING DATA

DATE OF SAMPLE

SPECIES The following species codes are used:

ALB Albacore tuna, Thunnus alalunga MLS Striped marlin, Tetrapturus audax Skipjack, Katsuwonus pelamis Blue marlin, Makaira mazara SKJ BUM YFT Yellowfin tuna, Thunnus albacares BLM Black marlin, Makaira indica BET Bigeye tuna, Thunnus obesus Sailfish, *Istiophorus platypterus* SFA

WAH Wahoo, Acanthocybium solandri SSP Shortbill spearfish, Tetrapturus angustirostris

DOL Mahimahi, Coryphaena hippurus

LENGTH The length (in centimetres) must be **rounded down** to whole centimetres (e.g. 69.9cm is to be recorded as 69cm)

(All species should be measured "from the tip of the <u>upper jaw</u> to the fork of the tail" except billfish which should be measured "from the tip of the <u>lower jaw</u> to the fork of the tail".)

N.B. Only entire specimens (not headed and/or tailed) are to be measured.

SUM OF LENGTHS Is the sum of the lengths of each species that are recorded on that form (page) only. (This figure is used to verify that sampling data has been correctly entered)

# **APPENDIX 10. OTHER FORMS**

- 1. Gamefish Tournament Data Sheet
- 2. Gamefishing Individual Vessel Logsheet
- 3. Fishing Trip and Port Visit Log
- 4. Papua New Guinea Compulsory Vessel Inspection and Checklist
- 5. WCPFC Regional Fish Aggregating Device (FAD) Information Record

Tou	rnan	nent	- Inc	divid	ual Fi	sh We	ights			ition Name		Weight please circle appropriate box	kg Ibs	
Day and date	Striped marlin	Black marlin	Blue marlin	Sailfish	Wahoo	Dolphin fish	Shortbill spearfish	Spanish mackerel	shark (sp?)	Yellowfin tuna	Dogtooth tuna	Skipjack tuna	Bigeye tuna	Other
								***************************************					***************************************	
//														
//														
			•											
//													•••••	
//									-					
//														

# **Gamefishing Individual Vessel Logsheet - Troll (5 days)**

Please complete - even if no fish are caught

						Complete		e record						
Name, addro	ess and port	of person fill	ling out data s	sheet:		Kept Vesser Warrie.					kg Ibs			
DATE	Time start	Number of	Harrie Sala d	Number of				C	atch totals - Ni	umber by specie	s			
dd/mm/yy	fishing	lines fished	Hours fished	strikes	Species	Number caught	Species	Number caught	Species	Number caught	Species	Number caught	Species	Number caught
						Kept		Rel		Kept		Kept		Kept
						Kept		Kept		Kept		Kept		Kept
						Kept		Kept		Kept		Kept		Kept
						Kept		Kept		Kept		Kept	1	Kept
						Kept		Kept		Kept Rel		Kept Rel		Kept Rel
DATE dd/mm/yy	Species	Weight	DATE dd/mm/yy	Species	Weight	DATE dd/mm/yy	Species	Weight	DATE dd/mm/yy	Species	Weight	DATE dd/mm/yy	Species	Weight
												Species cod		
													marlin	
												··· SFA Sail	k marlin fish	
													rtbilled spearfish oed marlin	
													ordfish	
												COM Spa	nish mackerel	-h)
												"TRE Tre	hi mahi (dolphin fi: vally	sri)
												···RRU Raii	racouta nbow runner	
													pjack tuna gtooth tuna	
												YFT Yell	owfin tuna jeye tuna	
													ark	
													Please post result nic Fisheries Pro	s to:
												Secreta	riat of the Pacific ( : D5 98848, Noum	Community,
													New Caledonia	
													or Fax to: 687 263	010

REV: NOV 2007
NAME OF VESSEL

NAME OF FISHING COMPANY

SPC / FFA REGION	AL FISHING TR	IP AND PORT VISIT LOG	17taE01				
	GEAR TYPE	COUNTRY OF REGISTRATION	YEAR				
		REGISTRATION NUMBER IN COUNTRY OF REGISTRATION	INTERNATIONAL RADIO CALLSIGN				

PERIO	OD OF	FISHING TRIP		IF FISHII	NG TRIP:		IF PORT VISIT:	
ACT	IVITY	AND	LOGSHEET	OBSERVER	TOTAL	NUMBER OF		
DATE FROM	DATE TO	PORT VISIT	PROVIDED ?	ONBOARD?	NUMBER	PACIFIC	NAME OF	
DD / MM / YYYY	DD / MM / YYYY	CODE			OF CREW	ISLAND CREW	PORT	COMMENTS
								-
								-
								-

- FISHING TRIP AND PORT VISIT CODES

  1 FISHING TRIP
  2 IN PORT UNLOADING CATCH
  3 IN PORT PREPARING FOR NEXT TRIP
  4 IN PORT MAINTENANCE
  5 IN PORT REPAIRS
  6 IN PORT BAD WEATHER
  7 IN PORT OTHER (PLEASE SPECIFY)
  8 IN TRANSIT TO ANOTHER PORT
  9 AT SEA TRANSHIPPMENT

# SPC / FFA REGIONAL FISHING TRIP / PORT VISIT LOG - INSTRUCTIONS

# **Block One: Vessel Identification**

<u>Country of Registration and Registration Number in Country of Registration</u>: Print the name of the country in which the vessel is registered (e.g. "Japan") and the registration number issued by the country in which the vessel is registered (e.g. "ME1-808").

**Year**: Print the year in which the vessel departed from port at the start of the trip.

# **Block Two: Vessel Fishing Trip / Port Visit**

Periods when the vessel was at sea fishing or was in port must be completed in this block covering the entire year.

# <u>IT IS FUNDMENTAL THAT PERIODS WHEN THE VESSEL WAS NOT FISHING ARE LISTED ON THIS</u> FORM.

# <u>Please note that a fishing trip is terminated when a full or partial unloading is undertaken, and that this therefore</u> includes any at-sea transhipments

The period the vessel was in port and the main reason for remaining in port must be specified in the space provided.

<u>Period – Date from</u> and <u>Date to</u>: Print the date that either (i) the fishing trip commenced (i.e. departure from port) and the date of return to port, or (ii) when in port, the date that a specific "in-port" activity began and ended (for example, unloading the catch). Note that the first day on this form for a vessel must be January 1<sup>st</sup> and the last day must be 31<sup>st</sup> December for any given year. All days in the year must be accounted for in the periods recorded.

<u>Fishing Trip and Port Visit Code</u>: Use Activity Code 1 ('Fishing Trip') for periods when the vessel undertook a fishing trip. Use the appropriate Activity Code between 2 and 8 (as listed) for any period that the vessel was in port (i.e. not undertaking a fishing trip).

<u>Logsheet provided</u>?: For periods when the vessel was fishing (i.e. on a "fishing trip"), indicated whether the a catch logsheet was provided.

*Comments*: Print any comments relevant to this period of activity.

# Example:

	Great	Ocean			GEAR TYPE	Longline	COUNTRY OF REGISTRATION	Fiji	<sup>YEAR</sup> 2002
NAME OF FISHING CO	JIKO	) FISHIN	G COM	PANY L	TD		REGISTRATION NUMBER IN COUNTRY	OF REGISTRATION Fiji	INTERNATIONAL RADIO CALLSI
	DD OF	FISHING TRIP		IF FISHII	NG TRIP:		IF PORT VISIT:		<u> </u>
DATE FROM DD / MM / YYYY	DATE TO DD / MM / YYYY	AND PORT VISIT CODE	LOGSHEET PROVIDED ?	OBSERVER ONBOARD?	TOTAL NUMBER OF CREW	NUMBER OF PACIFIC ISLAND CREW	NAME OF PORT	C	COMMENTS
1/1/2002	05/01/2002	3							
06/01/2002	21/1/2002	1	Yes	No	15	11	Suva		
22/1/2002	22/01/2002	2							
23/1/2002	25/01/2002	5							
26/01/2002	31/1/2002	3							
01/02/2002	18/2/2002	1	Yes	No	15	10	Suva		
23/12/2002	23/12/2002 31/12/2002	2 7						Christmas -	New Year break
	J1/12/2002	,						Cistionnuo	100 100 0000
21/12/2002									
		FIGURE TO	P AND PORT V	IOIT CODES	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •



# NATIONAL FISHERIES AUTHORITY

PO Box 2016, Port Moresby, National Capital District, Papua New Guinea Telephone: 3090444, Facsimile: 320 2061, Email: nfa@fisheries.gov.pg

**Division of Monitoring, Control and Surveillance** 

# **COMPULSORY VESSEL INSPECTION and CHECKLIST**

PNG Licence No:					Date:	
A: VESSEL VERIF	FICATION					
Vessel Name:				Туре:		
Flagging Arrangement:		Country Registration	number:		International radio call	sign (IRCS):
Company owner:			Country:			
Charterer:			Country:			
Vessel captain:			Nationality			
Type of licensing arrangement:						
Vessel ownership arrangement						
D. VECCEL MADI	(INCC					
B: VESSEL MARK	KINGS					
1. PNG license No. is c	learly displayed on b	oth sides and to	p of wheelh	ouse ?	Yes	s No
Remarks:						
2. All utility boats (e.g.: to support its fishing	skiffs, dinghies, spe operations properly					
Skiff Yes N	lo n/a Dinghies	(No. = )	Yes No	n/a H	Helicopter Yes	No n/a
Tow boat Yes N	No n/a Speed bo	pats (No .= )	Yes No	n/a Other n/a	( )	Yes No
3. Are this vessel's pay	aos all clearly and pe	ermanently mark	ed correctly	?	Yes No	)

C:	: ASSOCIATED SUPPORT CRAFT (including carrier vessels)											
							Size					
	Na	ame		Usage	Capacity if a fish carrier	GRT	LOA (m)					
	a)											
List support boats:	b)											
List sup	c)											
	d)											
	e)											
F	Helicopter:	Yes	No	Make:	Model:		Year:					

D:	SIZE CH	HARAC	CTERISTIC	S							
	gistered tonn		Net ton		Maximum loading capac	city:	Total well volur	ne: (m3)	Vessel cruising speed:		kts.
Well	(hold) c	apacity	and usage	(also get	Laptain to have th		ed <b>well lay</b>		<b>p</b> filled	out)	
Port or Centre "P" or "C" (eg: 1C)		USAGE		note type of cooling and optimum temperature d seawater, brine, blast freezing, dry freezer hold			Star- board	m3 USAGE			
	1							1S			
	2							2S			
	3							3S			
<b>V</b>	4							4S			
Main deck	5							5S			
Mair	6							6S			
	7							7S			
	8							8S			
	9							98			
	10							10S			
								S			
leck wells								S			
Upper deck or more wells								S			
J P								S			
								S			

E: ELECTRONICS					COMMENTS	USE
E. ELECTRONICS			MAKE	MODEL	(use code - see ★ below)	CODE
NAVIGATIONAL RADAR	# 1 Y	N				
NAVIGATIONAL RADAR	#2 Y	N				
BIRD RAI	DAR Y	N				
DEPTH SOUNDER # 1		N				
DEPTH SOUNDER # 2		N				
SON Please circle "Y" or "N"	AR Y	N				
for every item	iPS Y	N				
TRACK PLOTT	ER Y	N				
RADIO BEACON DIRECTION FIND	ER Y	N				
RADIO BUOYS - NON CALL-	UP Y	N			How many ?	
RADIO BUOYS - CALL-	UP Y	N			How many ?	
SATELLITE BUG	OYS Y	N			How many ?	
REMOTE ECHO SOUNDING BUG	DYS Y	N			How many ?	
DOPPLER CURRENT MET	ER Y	N				
SEA SURFACE TEMP. GAU	GE Y	N				
WIND SPEED / DIRECTION FIND	ER Y	N				
WEATHER FACSIM	ILE Y	N				
NOAA WEATHER SATELLITE MONIT	OR Y	N				
VMS (FFA TYPE-APPROV	ED) Y	N			Seal intact ? Y N	
FIXED BINOCULA	RS Y	N				
SATELLITE / HF TEL	.EX Y	N			Telex number:	

FISHERY INFO	RMATION SERVICES		DATA SOURCE	USE CODE	
BATHYTHE	ERMOGRAPH DATA USED	Y	N		
	ALTIMETRY DATA USED	Υ	N		
OTHER #1	(		)		
OTHER #2	(		)		

Ask Captain to indicate how much each instrument or service is used. Use the following one-letter usage codes to show the response:

- I = Intensive O = Occassional
- R = Rarely
  N = Not used or not working

INMARSAT SYSTEM	Y	N	Phone number:	Fax number:	Email:
-----------------	---	---	---------------	-------------	--------

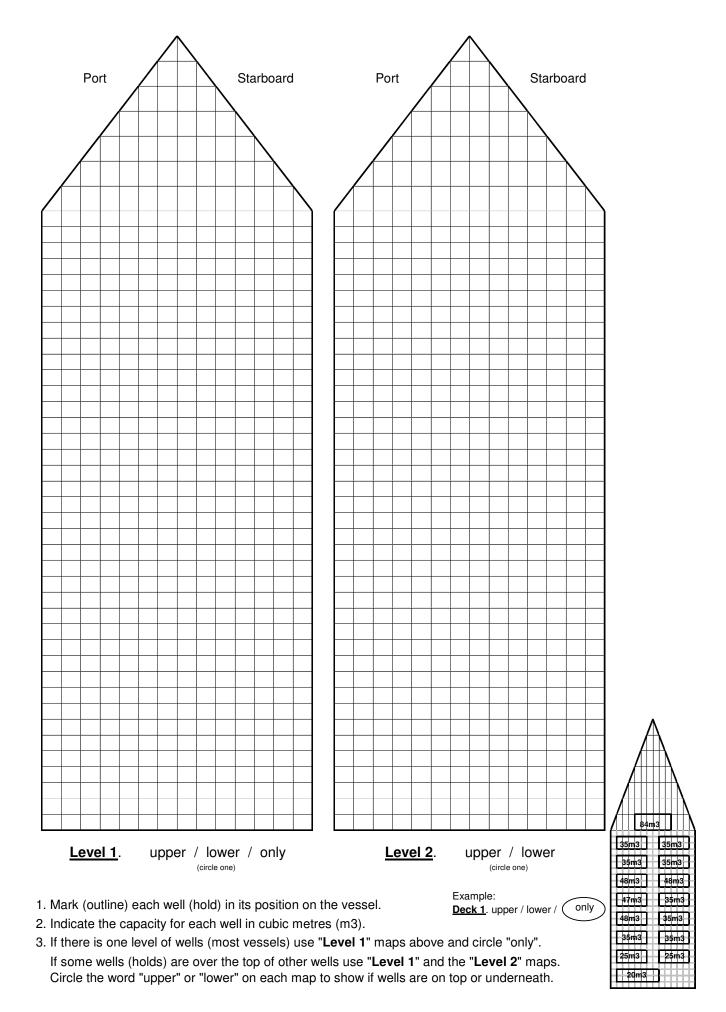
# F: FISHING GEAR SPECIFICATIONS

F1: PURSE SEINE	YES NO	-	if "NO" then	skip the	rest	of sect	ion "F1"	
SINGLE SEINER GROUP (circle one)	SEINER	capacity	el is a group se of the associa OCIATED SUP	ted carrie	er ves	sels ar	e included in	the
POWER BLOCK	Make:		Model	R	Rated pov	wer	Sheave diamet	cm
PURSE WINCH	Make:		Model	R	Rated pov	wer	Hauling speed	m/sec
PURSE CABLE	Section length (r Skiff end Section diamete		m mm		m	<del>                                     </del>	m	Seiner end
NET SKIFF ENGINE	Make:	· (·····).	Model			Horsepov	ver:	
	•		1			l		
	Maximum net depth	m	Maximum net depth		No. of net strips		Hanging ratio %:	
NET	Average mesh size of body	mm	Net material:					
	Average mesh size of bunt	mm	Mesh type: (circle one)		knotte	ed	unknotted	
			-			T -		
BRAILER	Туре:		Capacity 1		mT	Capacity	2	mT
FADs	Maximum No. of FADs used:		FAD materials:					
LIGHTS	Number used:		Type:			Power:		kWt
			1					
HELICOPTER	Make:		Model			Registrati	on number:	
	Effective range:	kms.	Colour:					
COMMENTS:								

F2: LONGLINE		YES NO	-	- if "NO" then skip the rest of section "F2"							
		Material:		Type:			Diameter		Length		
	MAINU INE							mm			m
Possible materials include: nylon, kuralon,	MAINLINE	Mainline storage:	(circle one)	vess	sel bi	n		basket	s (	drum	
Possible types include:		Branchline average length	m	Number of sect  1 2 (circle	tions: 3 e one)	4	Trace type:	mo	nofilament	w	rire
monolfilament, multi-strand twisted		Description of n	nulti-section branchlin	es			.!				
monofilament, braided	MAKE-UP of	Mainline end	Section 1.	Secti	ion 2.		Sect	ion 3.	Section 4.	Hool	k end
	BASKET (BRANCH LINES and	Material:									
Please circle	FLOATS)	Type:									
"Y" or "N" wherever possible		Length:	m		m		m		1		m
		Maximum No. of hooks set:		Maximum No. floats set:			Average length of float lines:				m
MAIN	NLINE HAULER	Y N	MAINLI	NE SHOOTER	Υ	N		BAIT	CHUTE USED	Υ	N
BRANCH	LINE HAULER	YN	AUTOMATIC BA	AT THROWER	Υ	N		TOR	I POLES USED	Υ	N
TIME / DI	EPTH / TEMPER	ATURE RECOF	RDERS (TDRs or MIN	VILOGS) USED	Υ	N	SH	ARK LINE	ES ON FLOATS	Y	N
F3: PRAWN TRAW	/L	YES NO	-	if "NO" th	nen s	kip th	ne rest	of sect	ion "F3"		
		Make:		Model			Rated pov	wer	Hauling speed		
	WINCH										m/sec
		Warp length:	m	No. of trawls towed:				Total No. trawl nets on board:			
	NET	Average mesh size of body	mm	Material of net body:							
		Average mesh size of codend	mm	Material of codend:							
											1
F4: OTHER FISHIN	IG GEAR S	PECIFICAT	TONS	- please	spe	cify	(				)
GILLNETS	Y N	VERTICA	AL LONGLINES / DRO	OPLINES	Υ	N			OTHERS		
BOTTOM LONGLINES	Y N	-	FISH TRAPS		Y	N	(		)	Y	N
HANDLINES	Y N		TRAWL NETS		Υ	N	(		)	Y	N
Brief description of gear includin	ig numbers of ea	ch type, basic m	aterials and lengths, o	lepths, if approp	oriate:						
Name of Captain or			Position of								
Person-in-Charge, if not the Captain			Person-in-Charge, if not the Captain								
-		-	erson-in-Charg e an accurate	je,	Y	es	No				
_			f this inspection	on.		(circle o	one)	Signat	ure of Captain or Per	son-in-Cl	harge

	cense on board -	Is the original or is a copy of the current license on board?	original	copy none
				,
. <u>Cı</u>	vessel licensed t carry total of:	Number of citizens (PNG Nationals):		spection time:
Li	icense conditions and en	dorsements - Has the Captain / Pers	son-in-Charge read	and understood
	the Conditions on the bac		son in Ghargo road	and andorotood
b)	the Special Conditions, P	ohibited Areas (attachment B) ?	Yes No	
c)	the Endorsement to Licen	se (attachment G) ?	(circle one)	Signature of Captain or Person-in-Charge
d)	the Requirements for Mar	kings ?		
. <u>Tı</u>	ranshipment - Is the Cap	ain Person-in-Charge aware that the I	license conditions re	equire
a)		narge to request permission to transhi	p fish or to re-provi	sion 72 hours in advance ?
	(Condition s	5 - Attachment D)	Yes No	
b)	•	been granted then an Observer ust be on board the vessel before tran	(circle one)	Signature of Captain or Person-in-Charge
	ŕ			· ·
5. <u>C</u>	atch recording - Does the	e Captain / Person-in-Charge know he	is responsible to e	nsure all catch is recorded
a)	daily on the Logsheets su	oplied by NFA ?	Yes No	
b)	•	er Fisherman's best estimate of	(circle one)	Signature of Captain or Person-in-Charge
	total catch and of the cat	ch composition		
		en composition		
		on composition		
i. <u>F</u> c	ormal Clearance - Does t	he Captain / Person-in-Charge know h	ne must report to po	rt for formal clearance:
			ne must report to po	rt for formal clearance:
a)	on entering PNG waters before departing the coun	he Captain / Person-in-Charge know hefore meeting any other vessel try, after the last transhipment,		ort for formal clearance:  Signature of Captain or Person-in-Charge
a)	on entering PNG waters before departing the coun	he Captain / Person-in-Charge know hefore meeting any other vessel	Yes No	
a) b)	on entering PNG waters before departing the coun reprovisioning or other me	ne Captain / Person-in-Charge know hefore meeting any other vessel try, after the last transhipment, eeting with any other vessel	Yes No (circle one)	
a) b)	on entering PNG waters be before departing the coun reprovisioning or other me	he Captain / Person-in-Charge know hefore meeting any other vessel try, after the last transhipment, eeting with any other vessel	Yes No (circle one)	Signature of Captain or Person-in-Charge
a) b)	on entering PNG waters be before departing the coun reprovisioning or other me fences and Penalties - I failure to comply with thes	ne Captain / Person-in-Charge know hefore meeting any other vessel try, after the last transhipment, eeting with any other vessel	Yes No (circle one)  e that: of the License, Nat	Signature of Captain or Person-in-Charge
a) b) 7. <u>O</u>	on entering PNG waters be before departing the coun reprovisioning or other me fences and Penalties - I failure to comply with thes	he Captain / Person-in-Charge know hefore meeting any other vessel try, after the last transhipment, eeting with any other vessel is the Captain Person-in-Charge aware e and any other terms and conditions dicial penalties that may be incurred,	Yes No (circle one)  e that: of the License, Nat	Signature of Captain or Person-in-Charge

ACTIONS TAKEN		
Major discrepancies identified		
2. Corrective actions taken		
CERTIFICATION		
In accordance with section 48 of the Fisher	eries Management Act, 1	
I,, a ga	zetted Fisheries Officer of the Nat	ional Fisheries Authority, do declare
that I have inspected the vessel,and I am satisfied that all necessary requirer	, on	
All the conditions of the license were fully exp who signed the below statement to the effect complied with.	· · · · · · · · · · · · · · · · · · ·	=
This vessel was	າat	(port)
(signature of Fisheries Officer)		(signature of Witness)
(vigitable =		(algulation of misself)
STATEMENT		
I,, (name of Captain or Person-in-Charge)  of the fishing vessel,	(title / position held), do declare that I fully	
	(signature of Captain or Person-in-Charge)	) (date)



# WCPFC REGIONAL FISH AGGREGATING DEVICE (FAD) **INFORMATION RECORD**

Form WCPFC - XX

WCPFC Draft DC													
OBSERVER NA	AME			VESSEL NAME						OBSERVER TR	IP ID NUMBER	PAGE OF	
						1							
Record	Date	Time	Latitude	N	Longitu	de	E	Object	Set No.	How	FAD as	FAD as left	
No.	DD MM YY	hh mm	dd°mm.mmm'	$\mathbf{S}$	ddd°mm.m	mm'	W	number	SCI 110.	detected	found		Comments
FAD Materials			Max est. FAD FAD Origin of FAD		Animals entrapped								
M	Main materials FAD attachments		nts	depth	lengt	th	width	Origin	OLFAD	(circ	le one)		
1 2	3 4	5 6	1 2 3	4	M								
					F		М	M			YES	NO	
Doggw-1	Date	Time	Latitud	NI	Longita	do				Haw	FAD as		
Record		Time	Latitude	N	Longitu		E	Object	Set No.	How		FAD as left	
No.	DD MM YY	hh mm	dd°mm.mmm'	S	ddd°mm.m	mm'	W	number		detected	found		
		EIDM			3.5			EAD					
		FAD Mat			Max est. FAD		FAD Origin of FAD		Animals entrapped				
M	Iain materia	ls	FAD attachme	nts	depth	lengt	th	width Origin of FAD		(circle one)			
1 2	3 4	5 6	1 2 3	4	M						YES NO		
					F		M	M					
Record	Date	Time	Latitude	N	Longitu	do	E	Object		How	FAD as		
No.	DD MM YY	hh mm	dd°mm.mmm'	S	ddd°mm.m		W	number	Set No.	detected	found FAD as left		
140.	DD WW 11	1111 111111	uu mmiimmii		add IIIII.III	111111	vv	number		detected	Touliu		
		FAD Mat	toriola		Max est.	FAI	<b>n</b>	FAD			Animala	entrapped	
	Iain materia		FAD attachme	4-				width Origin of FAD				^ ^	
1 2	lain materia	IS 5 6	FAD attachme	ents	depth	lengt	ın	wiatn			(circi	le one)	
1 2	3 4	3 0	1 2 3	4	M						YES	NO	
					F		M	M					
Record	Date	Time	Latitude	N	Longitu	de	E	Object	0.137	How	FAD as		
No.	DD MM YY	hh mm	dd°mm.mmm'	S	ddd°mm.m		w	number	Set No.	detected	found	FAD as left	
1100							•••	114111001		ucccccu	104114		
	<u> </u>	FAD Mat	terials		Max est.	FAI	D	FAD			Animals	entrapped	
M	Iain materia		FAD attachme	nts	depth	lengt		width	Origin	of FAD		le one)	
1 2	3 4	5 6	1 2 3	4	1	icingi	<b>.11</b>	wiutii			(circi	ic one j	
'  -				-	M						YES	NO	
					F		M	M					

#### How Detected (FAD)

- Seen from Vessel (no other method)
- 2 Seen from Helicopter
- Marked with Radio beacon
- Bird Radar
- Info. from other vessel
- Anchored (GPS)
- Marked with Satellite beacon
- Navigation Radar
- 10 Lights
- 11 Flock of Birds sighted from vessel
- 12 Other (please specify)
- 13 Vessel deploying FAD (not detected)

#### 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 logs (converted into FAD)
- 5 Debris (flotsam bunched together)
- 6 Dead Animal (specify; i.e whale, horse 5
- 7 Anchored Raft Fad or Payou
- 8 Anchored Tree or Logs
- 9 Other (please specify)

# **FAD Materials**

#### FAD attachments **Main Materials**

1 Logs, Trees or debris tied together 11 Chain, cable rings, weights 12 Cord / rope.

13 Netting hanging underneath FAD

16 Coconut fronds/ tree Branches

14 Bait containers

15 Sacking / bagging

17 Other (describe)

- 2 Timber/ planks/ pallets/ spools.
- 3 PVC or Plastic tubing
- Plastic drums
- Plastic Sheeting
- Metal drums (i.e 44gal)
- Philippines design drum FAD
- 8 Bamboo / Cane
- 9 Floats / Corks
- 10 Unknown (describe)

#### Origin of Fad

- Your vessel deployed this trip
- Your vessel deployed previous trip
- 3 Other vessel's (owner consent)
- 4 Other vessel's (no owner consent)
- Other vessel's (consent unknown)
- Drifting and found by your vessel
- Deployed by FAD auxillary vessel
- Origin unknown
- 9 Other origin

(please specify in comments section)

#### FAD INFORMATION INFORMATION

#### Observer Name, Vessel Name

Always print each of these names out in full (e.g. observer name "John Smith", and a vessel name "Mahino no 8")

**Observer Trip ID Number**: - Number issued by the authority you are working for. ROP numbers will be made up of ROP Observer authorisation number, type of vessel, year and trip number in that year. i.e. John Smith (ID ROP#023) boards a long line vessel in 2007 and this is the 10th ROP trip for the year.

Trip number would be **ROP23LL-07/10** 

#### Page of

Number the "FAD Information Forms" throughout the trip as Page 1, Page 2, Page 3, etc. At end of trip put the last page number on every page (e.g. if there are 10 "FAD Information Form" pages filled out) then the first page will be "Page 1 of 10", the fourth page, "Page 4 of 10" and the last page will be "Page 10 of 10").

Date & Time - Record the time when the vessel is close enough to the object to begin collecting data. Use the date and time on the ship's clock - The Ship's Date and Ship's Time is the date and time used by crew on board. Normally the observers will set their watches to this date and time as soon as they board the vessel.

**Latitude & Longitude** - Record the position of the FAD, using the Latitude and Longitude that is obtained from the GPS. Record to three decimal places if possible, if not possible place 000 in the decimal minutes field.

as they are found. Starting with 001; If an object has been bought on board it will still be assigned an Object No. If it is returned to the water at the same location, the number will remain the same. However if the object is moved to a different area a new number will be assigned to the object.

**Set Number** - If the object is involved in a set, the set number will be identical to the Set Number that you record on the daily activity sheet. If no set is made on the object, leave this space blank.

**How Detected** - Record the primary method used to locate the object. If the object is a FAD being deployed use code for being deployed since it was not located.

**FAD as Found** As found is used to identify equipment present before and after the vessel encounters the object. Note: Complete this column only for objects found in the water; if the object is a FAD being deployed, leave this column blank.

**FAD as Left** - Check all of the equipment attached to the object when the vessel leaves it adrift. If no modifications were made to the object, the "As found and As Left" fields should be identical. If the object is brought aboard the vessel and moved to another area leave this field blank.

**FAD Materials** - This section is used to record the components that make up a floating object, The most common materials which make up the majority of floating objects are listed in the FAD material code column, If there are many materials making up the FAD; list in order up to 5 components starting with the most abundant material - If the object has a component not included in the list use other and describe it in the comments column, if not sure of the material use unknown and describe it.

#### FAD Attachments -

Same instructions as for Fad Materials - Record if there is any attachments to the main floating device

Max Est Depth - Record the maximum estimated depth in metres or yards (Circle the measurement you use) below the surface of the water, of the object or any equipment attached to the object, including flags and beepers, at the time the object is found or deployed. If unable to estimate place "Unknown" in the field.

# Fad Length & Fad Width

Record the dimensions of the object and any attached equipment, (circle metres or yards) from the longest dimension to the shortest, at the time the object is found or deployed. If the object has an irregular shape or is made up of multiple components, draw an imaginary box around the object and all components, including hanging netting, flags and beepers, and record the length and width dimensions of the imaginary box.

**Origin of FAD** Try to find out the origin of the object prior to the current encounter. Use comments for any additional details of the origin of the object. Use the code to best describe the origins of the FAD. If you can not find out where the FAD came from, use the code for "unknown", if the origin is not listed use "other" and describe in the comments area.

The object was set adrift by your vessel during a previous fishing trip. This information must be obtained from the crew.

The object is either (a) being placed in the water for the first time, or (b) returned to the water after being taken aboard the vessel and moved to another area (see Section 1.1).

Other vessel – with owner consent

The object belongs to another vessel, and its location has been given to your vessel with the owner's permission.

Other vessel – no owner consent

The object belongs to another vessel, and has been found by your vessel without the permission or collaboration of the owner.

Drifting object found

The object was not previously involved in fishing activity. If the object has signs of previous fishing activity, such as a flag or beeper attached, record it as Other vessel – no owner consent. Unknown

You cannot determine the prior origin of the object. Note any details in Section J.

**Fauna Entrapped** - Circle YES if any fauna, dead or alive, is trapped in the object whether with webbing, ropes, cloth, buckets, or between the bars in a rack. Write the name of the trapped species in the in the Comments area. If the object has no entrapped Fauna circle NO.

#### Comments

Please write as much info on each FAD as you can. Drawings or extra comments can be recorded in your diary. Record the diary page number under the comments area.