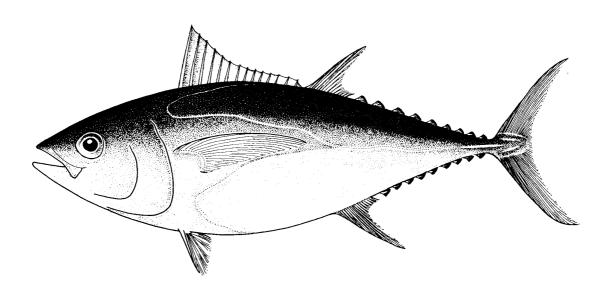
REPORT OF THE FIFTH MEETING OF THE TUNA FISHERY DATA COLLECTION COMMITTEE

2–6 December 2002 Brisbane, Queensland Australia





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



Forum Fisheries Agency Honiara Solomon Islands

TABLE OF CONTENTS

1.	PRELIMINARIES	1
1.1 1.2	Appointment of chairman and rapporteurs	1
2.	REVIEW OF CATCH AND EFFORT LOGSHEETS	1
2.1	General	
2.2	Longline logsheet	2
2.3	Pole-and-line logsheet	2
2.4	Purse seine logsheet	3
2.5	Handline logsheet	4
2.6	Implementation of DCC logsheets	4
2.7	Draft longline logbook	5
3.	OBSERVER PROGRAMMES	5
3.1	Status of observer programmes	5
3.2	Review of observer sampling protocols	6
3.3	Review of observer forms	8
4.	PORT SAMPLING PROGRAMMES	16
4.1	Status of port sampling programmes	16
4.2	Review of port sampling protocols	16
4.3	Review of port sampling forms	18
5.	OTHER FORMS	19
5.1	Papua New Guinea shark longline logsheet	19
5.2	Samoa longline logsheet	
5.3	Gamefishing forms	
5.4	Trip log	
5.5	Daily FAD Fishing Logsheet for Niue and the Cook Islands	
5.6	Papua New Guinea inspection form	
5.7	Regional Register and vessel and gear attributes	
6.	SPC/FFA DATA MANAGEMENT ISSUES	22
6.1	Provision of compliance forms by SPC to FFA	22
6.2	Entry of observer vessel and gear attribute data by SPC	22
6.3	Provision of VMS Data by FFA to the OFP	
6.4	Entry of US Treaty and FSM Arrangement data by SPC	23
6.5	Provision of NMFS port sampling data from NMFS directly to SPC	
7.	OTHER BUSINESS	23
7.1	Next meeting of the DCC	23
7.2	Guidelines for the participation of observers	23
	Constitute for the participation of observers minimum.	

7.3	Distribu	ntion of the report of DCC5 at SCTB16	23
7.4	Harmor	nisation of IATTC and DCC forms	24
8.	CLOSII	NG	24
REFI	ERENCE	ES	24
Appe	endix 1.	Agenda	26
Appe	endix 2.	List of Working Papers	27
Appe	endix 3.	List of Participants	28
Appe	endix 4.	Status of Implementation of South Pacific Regional Logsheets	30
Appe	endix 5.	Status of Port Sampling and Observer Programmes	32
Appe	endix 6.	South Pacific Regional Logsheets and Logbook	53
Appe	endix 7.	South Pacific Regional Observer Forms	72
Appe	endix 8.	South Pacific Regional Unloading and Port Sampling Forms	. 111
Appe	endix 9.	Other Forms	. 127

1. PRELIMINARIES

1.1 Appointment of Chairman and Rapporteurs

- 1. The fifth meeting of the Tuna Fisheries Data Collection Committee¹ (DCC5) was opened with a prayer spoken by Mr Filipe Viala. The participants then observed a minute of silence in memory of good friend and colleague, Mr Felix Panjuboe, a member of the DCC who passed away suddenly in 2001.
- 2. Mr Karl Staisch was appointed chairman of the DCC and Mr Tim Lawson was appointed vice-chairman and head rapporteur. Ms Deirdre Brogan and Mr Peter Sharples were appointed rapporteurs for agenda items 3 and 4 respectively. Mr Staisch welcomed the participants, noting that there were nine observers at DCC5 (from Australia, Fiji, Kiribati, New Zealand, Papua New Guinea, Samoa and the United States of America), in contrast to two at DCC4 (from the Federated States of Micronesia and the United States of America), and that the agenda had been expanded to include a review of the status of observer programmes and port sampling programmes, and a review of sampling protocols. A consequence of the expanded participation and agenda was that the meeting had been extended from three days to five.

1.2 Adoption of Agenda

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

2. REVIEW OF CATCH AND EFFORT LOGSHEETS

2.1 General

Nationality of the catch

4. It was proposed to include the country where the fishing company owning and/or managing this vessel has been established in the trip details block of each logsheet, since this will provide an indication of the nationality of the catch. However, it was considered unlikely that this field would be completed since it conflicts with the country of registration.

Marine turtle captures

5. It was proposed to include information on marine turtle captures, as recommended in the OFP turtle review (Oceanic Fisheries Programme 2001). However, it was considered that if turtles were to be monitored, then other species of special interest (such as sharks, marine mammals and sea birds) should also be monitored. Since there is not enough space on the logsheets for all groups of species of special interest, this information is best collected on a longline logbook (see agenda

¹ 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 (Anon. 1997); the third meeting was held from 9 to 10 December 1998 in Brisbane, Australia (Anon. 1999a); and the fourth meeting was held from 6 to 8 December 2000 in Brisbane, Australia (Anon. 2001a). During the fourth meeting, the name was changed to the Tuna Fishery Data Collection Committee.

item 2.7) or by observers. On the other hand, it was agreed to modify the instructions by explicitly referring to marine turtles. It was suggested that an example of a logsheet on which other species and species of special interest have been recorded should be printed on waterproof paper and distributed with the logsheets.

Trip # of Year

6. It was proposed to add 'Trip # of Year #' for all logsheets in order to easily identify missing trips. It was also suggested that the last day fished on the previous trip should also be recorded. It was agreed that these two changes did not justify a revision of the logsheets, but that they should be included in the next revision. The problem of determining logsheet coverage and identifying missing trips is further addressed under agenda item 5.4 (Trip log).

FFA Type Approved ALC

7. It was noted that FFA type approved ALCs are now mandatory and that this field is therefore no longer required. It was agreed that this change did not justify a revision of the logsheets, but that it should be included in the next revision.

Day

8. The meeting agreed to improve the instructions to indicate that the day of the week should not be recorded under 'Day'.

2.2 Longline Logsheet

Whole weight or processed weight

9. The SCTB13 reviewers noted that the units of weight, i.e. whole weight or processed weights, are not given on the longline logsheet (Anon. 2001b). However, the SCTB13 reviewers also noted that the practices of each of the fleets were consistent and known, so that it was not necessary to include the units on the form. For example, most fleets land albacore whole, while bigeye and yellowfin are gilled and gutted, and marlin are headed and tailed. On the other hand, it was suggested at DCC4 that this may not be the case for albacore landed by the American Samoan and Samoan longline fleets. Mr Gordon Yamasaki reported that the albacore landed by the domestic American Samoan and Samoan longliners can be either whole or gilled and gutted, but that individual vessels are consistent. It was also reported that yellowfin are sometimes headed in Samoa. It was therefore felt that port sampling data should be used, wherever possible, to identify the form of processing used by individual vessels and hence to determine whether conversion factors should be applied to catches reported on logsheets in order to estimate the whole weight of the catch.

2.3 Pole-and-Line Logsheet

School association

10. It was proposed that school association should be recorded for each school chummed. The meeting agreed to implement this change pending confirmation that this information is required for stock assessment. Following the meeting, Dr John Hampton, head of the Stock Assessment and Modelling Section of the OFP, indicated that while such information might be useful for particular

types of analyses, school association for the pole-and-line fishery is not required for stock assessment. This change was therefore not implemented.

2.4 Purse Seine Logsheet

Payao number

11. Purse seiners operating in Papua New Guinea have been required to enter the payao number on a non-standard purse-seine logsheet. This was done at the insistence of a local scientist who is no longer with the National Fisheries Authority. The meeting considered that it was not appropriate to record payao number on logsheets. It was also noted that observer coverage of purse seiners in Papua New Guinea is high, so that this information could be collected by observers. Ms Valonna Baker of the National Fisheries Authority suggested that the non-standard logsheet may be replaced by the DCC purse-seine logsheet in due course.

Activity codes for "In port – unloading" and "In port – not unloading"

12. It is currently not possible to differentiate ports where purse seine unloadings took place from ports that were visited but no unloading took place. There are many trips on the database for which there is neither unloading information nor information on the reason for the visit to port. It was therefore proposed that the current activity code for 'In port – Please specify' be replaced with two codes for 'In port to unload catch' and 'In port, but not to unload catch – Please specify port and reason'. However, the meeting considered that if the logsheet is being used correctly, such that the end of a trip is defined by when it unloads, then the port of return that is recorded in the block at the top of the logsheet should refer to the port of unloading. On the other hand, it was agreed that the instructions could be improved with an example of the reason that a port was visited other than for unloading.

Number of FADs used

- 13. It was reported that at the US Treaty Consultation in March 2002, the United States delegation questioned whether this particular field would provide useful information. However, they did not propose any alternative ways of recording information concerning the use of FADs on logsheets. Although no proposals were considered, the DCC5 participants agreed that the instructions should be improved.
- 14. It was reported that the United States purse-seine fleet has been advised that this new field, which was introduced on the December 2000 revision of the DCC purse-seine logsheet, was optional. It was also reported that this field has been filled on about half of the logsheets that have been compiled by the OFP and that cover the United States fleet.
- 15. The DCC5 participants agreed that, in general, logsheets and other data collection forms should not be included in treaties or national legislation. From time to time, the need to change the forms arises in response to developments in the fishery (such as the recent use of drifting FADs by purse seiners in the WCPO), but it is much more difficult to make changes if the forms are part of a treaty or national legislation. Instead of the actual forms, a list of minimum data standards should be included in treaties and national legislation. Such an approach enables the format and content of the forms to be modified by the parties to the treaty or the national government without having to modify the treaty or the legislation.

Unloadings

It was proposed that the unloadings section be modified to conform with the Final Out Turn Report that is used under the US Treaty. However, it was considered that it would not be possible for the US purse seiners to submit the logsheets within the 15-day time period specified under the Treaty if they waited until unloading had been completed. It was also noted that unloadings section is intended simply to identify where unloading took place and not to verify the catches recorded on the logsheet, since the unloadings data that are used for verification must be from a different source of data than for the logsheet. Nevertheless, the meeting agreed that when the logsheet is next revised, columns for 'others' and 'rejects' should be included in the unloadings section.

2.5 Handline Logsheet

16. The meeting noted that a handline logsheet has been developed by the OFP at the request of Papua New Guinea, which has recently licensed two pump boats. It was agreed that the form would be adopted by the DCC and reviewed at DCC6.

2.6 Implementation of DCC Logsheets

Implementation

- 17. Working Paper 3, "Implementation of the South Pacific Regional Logsheet forms," was presented. The implementation of the logsheets is summarised in the table in Appendix 4. The following points were noted:
- Modifications to the DCC purse-seine logsheet were made at DCC4 in December 2000; however, revised logsheets have been provided to the OFP only since October 2002 and they only cover a subset of the United States purse-seine fleet. Other than the United States purse-seine fleet, there is no indication that other purse-seine fleets in the region have adopted the December 2000 purse-seine logsheet.
- The Japanese fleets provide the DCC logsheets under Japan's access agreement with the Federated States of Micronesia. The Japanese fleets also have access agreements with Kiribati, Marshall Islands, Nauru, Palau, Solomon Islands and Tuvalu, but these countries have not yet implemented the DCC logsheets.
- The New Zealand purse-seine fleet is currently using the DCC logsheet under its access agreements with the Marshall Islands and Tuvalu, but it is using a non-standard form under its agreement with Kiribati.
- The Korean longline fleet is not using the DCC logsheet under its access agreements with Kiribati and French Polynesia.
- 18. The meeting agreed that the SPC and FFA member countries that have not already implemented the DCC logsheets should be strongly encouraged to do so.
- 19. It was also agreed that SPC and FFA should take advantage of every opportunity to ensure that the DCC logsheets are included in negotiations between member countries and fishing nations.

Requirement to complete Australian Fisheries Management Authority (AFMA) logbooks

20. AFMA grants two types of concessions to allow commercial fishing in Commonwealth fisheries: Statutory Fishing Rights (SFRs) and fishing permits. When SFRs or fishing permits are

issued, a set of conditions are placed on the SFR or permit. These conditions regulate the fishing activities that can be undertaken under the authority of the SFR or permit. The conditions of an SFR or permit can be amended at any time, so long as the amendment is consistent with AFMA's legislative objectives, management arrangements for the fishery, and any other associated policies. For all fisheries managed by the Commonwealth (i.e. AFMA), it is a condition of an SFR or permit to complete the logbook specified for that fishery in accordance with the instructions provided in the logbook. Previous to this arrangement logbooks were formerly 'determined' in accordance with Part 9 of the Fisheries Management Regulations, 1992. A determination under these provisions had the effect of establishing each particular logbook as the formal logbook for the fishery for which it was developed. The requirements of Part 9 then applied in relation to the use of that logbook and the treatment of information collected through that logbook. In particular, Part 9 set out the obligation to use a logbook, lodge returns and created a specific offence of providing false information in a logbook. The secrecy provision of Part 9 was also invoked through the determination process, which required that information provided in a logbook be treated as confidential.

2.7 Draft Longline Logbook

- 21. In response to a review of the DCC logsheets by the Statistics Working Group of the Standing Committee on Tuna and Billfish (Anon. 2001b), it was agreed at DCC4 in December 2000 that prototype logbooks would be developed by the DCC in order to accommodate information of catches of major non-target species and species of special interest, as well as vessel and gear attributes. In contrast to the DCC logsheets, which contain one line of information for each set, the logbooks will contain one page of information for each set.
- 22. A draft longline logbook was presented together with the Working Paper 4, "Methods and Procedures for the Implementation of the Proposed South Pacific Regional Daily Longline Logbook". The participants suggested numerous modifications to the draft longline logbook, which were incorporated into the revised draft, which is given in Appendix 6. After testing and further revision, the final version of the longline logbook will be presented to the next meeting of the DCC.

3. OBSERVER PROGRAMMES

3.1 Status of Observer Programmes

- 23. The Committee was presented with a proposed outline of a report on the status of sampling programmes that is intended to be a living document to present at meetings of the Data Collection Committee, the Observer Coordinator's Workshop, the Standing Committee on Tuna and Billfish and other meetings. Two series of histograms were presented: the first indicated the number of observer trips by year for each programme, while the second indicated the number of vessels sampled by year in each port. These were accompanied with notes on the programmes in each of the countries and territories. The report on the status of sampling programmes is presented in Annex 5.
- 24. Participants were asked for further input from their own programmes and for comments for future improvement and expansion of the format and content of the report. The suggested improvements to the report were as follows:
- Use observer sea days instead of trips to better measure observer effort.
- Indicate the number of vessels in the fleets that are being covered by the observers for which sea-day coverage is shown.

- Include target observer coverage levels for the different programmes, indicating whether the target was based on fishing days, fishing trips or other.
- Indicate whether all fleets are being covered, and coverage level by fleet if they differ.
- Indicate the fishing range of the fleet being covered.
- Include sampling protocols for each programme.
- Present another set of histograms that depicts the number of discrete samples, rather than the number of vessels sampled.
- Include background information to explain the reasons for changes in trends, e.g. to explain the drop in observer effort in 2000.
- Ensure that the histograms are clearl when presented in black and white handouts. Consider using hatching instead of colour differences.
- Present histograms in two sets, including one set presented on the same scale, so that coverage can be compared amongst programmes, and another with variable scales, so that variation in the individual programmes can be highlighted.
- Separate the Australia, New Zealand and Hawaii programmes from the Pacific Island programmes.
- Present the SPC observer data as a discrete data set, rather than including it with the data for New Caledonia.
- 25. The following questions were raised in regard to the content of the report:
- The US Treaty data for 2002 that were sent to SPC do not appear to be included in the data represented by the histograms.
- An overall drop of observer activity was noted in 2000. Factors contributing to this include the Solomon Island civil unrest, the end of the SPC SPRTRAMP observer programme, and a backlog in data entry from some countries.
- As the histograms did not depict data from before 1990, the question was raised as to whether SPC had American Samoan port sampling data dating back to the 1960s.
- The rapid increase in sampling activity in the mid-1990s, followed by a steady decrease, particularly in the Federated States of Micronesia, were attributed to the increase and subsequent decrease in the number of mainland Chinese longliners in the region.
- The increase in purse-seine port sampling activity in Majuro, Marshall Islands from 1999 onwards was attributed in part to a change in the economic climate, which attracted purse seiners that previously transhipped in the Federated States of Micronesia and Guam.

3.2 Review of Observer Sampling Protocols

26. The protocols used by observers to sample catches, lengths and species composition were reviewed. The following summarises the sampling protocols currently used by the observer programmes supported by SPC and FFA.

Longline

27. The sampling protocol for longline is to measure all fish from all sets. If the number of hooks per set is large, e.g. for distant-water longliners, then the observer measures all fish from two out of

every three sets. The same fish are measured for species composition and length samples. The following information is recorded for each animal hooked:

- The species code is recorded with the three-letter ASFIS code.
- The time the fish was landed or, for discarded or escaped fish, the time the fish was hauled, is recorded.
- The hook number, within the basket, is recorded.
- The physical condition when landed or hauled is recorded. If the species is discarded, the condition of the species when it is returned to the water is also recorded.
- The length of the animal is recorded. Length measurements are taken with calipers and rounded down to the nearest centimeter below.
- Weight measurements are taken when weighing scales are available onboard the vessel.
- The gender of the animal is recorded as either male, female or indeterminate (for immature gonads where the difference is not discernable).
- The fate of the species is recorded.

Pole-and-Line

- 28. The sampling protocol for pole-and-line is to measure 50 randomly-selected fish. For large catches, 100 randomly-selected fish are measured. For each fish, the species and length, rounded to the nearest centimeter below, are recorded.
- 29. The total amounts of the catch of tuna and non-target species are estimated by the observer by eye.

Purse-seine

- 30. The sampling protocol for purse seine is to measure five randomly-selected fish from every brail that is brought onboard, for all sets during a trip. If brailing is too fast to measure five fish per brail, then observers are instructed to reduce the number of fish measured per brail. Under all circumstances, sampling is carried out during the entire brailing process. The same fish are measured for species composition and length samples; the species and length, rounded to the nearest centimeter below, are recorded for each fish sampled.
- 31. The total amount of the catch of tuna is estimated by the observer by multiplying the brailer capacity by the number of brails. The species composition of the catch of tuna is estimated by applying the weight of the sampled catch of each species by the total catch; the weight of the sampled catch is determined by converting length measurements to weight measurements. The retained catch of tuna is estimated by subtracting discards from the total catch; discards are estimated by eye.
- 32. The catch of non-target species is estimated by eye, either in units of number of fish or tonnes, depending on the species and the amount of the catch. The fate of non-target species is also recorded.
- 33. Additional length samples are taken from discarded fish that are found on deck after brailing has been completed.

Discussion

Brailer capacity

34. During the discussion, the problem of determining brailer capacity was raised. The capacity of the brailer recorded by the observer is directly related to the estimates of catch that are determined by the observer. Due to its importance, it was agreed that further attention should be paid to calculating the size of the brail. It was suggested that observers should be trained to calculate the volume of each brail through volumetric analysis. Papua New Guinea has already purchased weight scales to gauge the weight of brails. It was noted that the different sizes of the catch (large yellowfin, as opposed to smaller skipjack) would have a bearing on the capacity of the brail.

3.3 Review of Observer Forms

GENERAL

Workbook Instructions

35. Observer workbooks contain all forms an observer needs for a specified period at sea. In an effort to improve the quality of data and the amount of instruction information the observer has while at sea, a number of inserts were proposed for the workbook. Workbook inserts will now include the Beaufort guide to sea state, length measurement diagrams, a list of observer coordinator addresses to assist any observer who may disembark at foreign ports, and a list of common errors which should be avoided.

Species of Special Interest

36. Previously, specific fate codes existed for 'Protected species'. These included 'DPA' (Discarded, protected species – alive) and 'DPD' (Discarded, protected species – dead). Although these codes referred to species like marine turtles and marine mammals — which are protected by law in some countries — the legislation in Pacific Island countries has not been standardised and in some places does not exist. The Committee decided to find a word that reflects the special status of some marine creatures while remove the onus for this status to be part of national law. The term 'Species of Special Interest' has been used by the Standing Committee on Tuna and Billfish and refers to marine turtles, marine mammals, sea birds and sharks. The codes 'DPA' and 'DPD' will now read 'Discarded: species of special interest – alive' and 'Discarded: species of special interest – dead'.

Vessel and gear attributes

37. It was agreed to harmonise, to the greatest extent possible, the vessel and gear attributes on the observer forms with those in Table 1, 'High scoring gear and vessel attributes', in SCTB15 Working Paper FTWG–9, "Vessel and gear attributes in the Forum Fisheries Agency Regional Register of Vessels: how much is enough?"

Record of the vessel's logsheet number

38. It was recognised that should a unique logsheet number be introduced on vessel logsheets, the observer should record this number. The Committee agreed to this proposal, but recognised that the introduction of logsheet numbering would probably take some time and that the topic should therefore be revisited at a future meetings of the DCC.

Cleithrum length

39. A request to use the length measurement code 'CL', from the cleithrum to the keel in the tail, for headed fish, was not accepted. It was felt that the 'PF' length measurement code, from the pectoral fin to the fork in the tail, was adequate.

LONGLINE OBSERVER FORMS

FORM LL-1 • LONGLINE OBSERVER GENERAL INFORMATION

Mainline and branchline specifications

40. While previous editions of the forms have included wide comment fields to record the line composition of both the mainline and branchline (including the diameter and strength), this did not extend to other features, including the total mainline length and the use of wire trace in branchlines. Specific data fields for each of these features have now been included.

Refrigeration method

41. Storage method was identified in Working Paper 10 as a highly desirable attribute. The three most common storage methods for longline vessels have now being added.

Crew

42. The data fields labelled 'crew' are intended to capture the number of crew onboard the vessel, by nationality. Although clearly stated in the instructions that only the crew should be recorded in these fields, observers still get confused. To overcome this problem, it was agreed to redefine these fields to include both the captain and the crew.

VMS

43. The make and model of the VMS system is not readily available onboard the vessel. In fact, 'FFA type-approved VMS' are by definition standardised makes and models, so it is not necessary to record this information. Preferable information for data collection is the type of system used and the seal number of the VMS.

Fishery information services

44. Presently the observers record the name of the website that is being used to access satellite imagery data. It was agreed that a better approach is for the observer to record the types of information that are being accessed by the vessel, e.g. phytoplankton, sea surface temperature and/or sea height.

FORM LL-2 • LONGLINE OBSERVER SET INFORMATION

Target species

45. Longline vessels may change their target species during a trip. Mostly frequently this change has been noted to be from tuna to swordfish or sharks, as well as vice versa. Identifying sets that target non-tuna species will enhance tuna stock assessments.

FORM LL-3 • LONGLINE OBSERVER HAUL INFORMATION

Total number of baskets observed

46. Asking observers to add up the total number of baskets they have observed a day will help to quickly assess if a full haul has been monitored. This query was placed at the end of the LL–3 form, since it is at the end of the haul when the observer will add up their LL–4 page totals.

FORM LL-4 • LONGLINE OBSERVER CATCH MONITORING

Tag numbers

47. While purse-seine observer forms have prompted and allowed observers to record retrieved tag numbers, this has not been made available on the longline forms. Provision for this has now been made by amending the 'Comments' column to 'Comments and Tag Numbers'.

Sex

48. To record the sex of the landed species, three codes exist: 'M' (male), 'F' (female) and 'I' (Indeterminate – where the observer has examined the gonad but could not identify the sex, due to the immaturity of the gonads). Another code exists on the database, but is not available on the form: 'U' (Unknown – where the observer has not had a chance to examine the gonad). This code will now be added to the form.

Retained gutted only

49. No fate code is available to describe the process of gutting, but not gilling, some fish, mostly of lesser value. The code 'RGO' has now been introduced to cover these events.

Retained gutted and tailed

50. No fate code is available to describe the process of gilling, gutting and removing the tail. This practise is common on the larger freezer vessels. The code 'RGT' has now been introduced to cover these events.

Page total

51. The field marked 'Total' for the total number of baskets observed by the observer for each LL–4 page has been amended to read 'Page Total'.

FORM LL-5 • LONGLINE CONVERSION FACTORS

52. No changes were proposed for this form.

POLE-AND-LINE OBSERVER FORMS

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

Crew

53. Similar to the request for the longline form, the title of these fields has been amended to include the captain, thus clearing up previous misunderstandings.

VMS

54. As noted for the longline form, the make and model of the VMS system have been replaced with the type of system used and the seal number of the VMS.

Fishery information services

55. It was agreed that a better approach is for the observer to record the types of information that are being accessed by the vessel, e.g. phytoplankton, sea surface temperature and/or sea height.

Automatic poling devices

56. The number of automatic poling devices available on the vessel will be recorded.

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

New Activity Codes

- 57. New activity codes have been introduced in order to differentiate between periods during which rafts, FADs and payaos are deployed and the periods during which they are retrieved. The committee proposed to split the present activity code '10', which was originally given as 'Deploy / retrieve raft FAD or payao' into two different codes: '10D' for deployment and '10R' for retrieval.
- 58. It was also felt necessary to introduce an activity code that will record the times when vessels change the beacon, and thus their beacon numbers, on certain rafts, FADs or payaos. Without this change, it is not possible to keep an accurate account of the number of times a vessel may visit an individual raft, FAD or payao. Activity codes '15R', 'Retrieve beacon (change only)' and '15D', 'Deploy beacon (change only)', will now be introduced.

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

Tag numbers

59. While purse-seine observer forms have prompted and allowed observers to record retrieved tag numbers, this has not been made available on the pole-and-line forms. Provision for this has now been made by adding a line to the section on set detail information.

PURSE-SEINE OBSERVER FORMS

FORM PS-1 • PURSE SEINE OBSERVER GENERAL INFORMATION

Additional brail capacity

60. Japanese vessels have been noted to have two different brailers onboard. To allow for this, an additional 'capacity of brail' data field has been added.

'Describe Length / Diameter of Purse Cable'

61. Data presented by FFA show that observers often had problems filling in this field. Moreover, when they did fill in the forms, the information collected by different observers on the same vessel often differed. This may be due to a genuine change in the purse cable or to incorrect information supplied by the vessel's officers to the different observers. As it is difficult to collect, this data field has been removed from the form, although a reminder to check for and describe the information, when available, will be added to the observer's written report.

'Power Block' and 'Purse Winch'

62. It was felt that many observers have trouble finding the make and model for the power block and purse winch. They are often limited by language barriers. The Committee discussed the validity of removing these fields from the forms, but it was felt that an amendment to the instructions advising the observer to fill in the information only when they are sure of the authenticity of the data would suffice.

Effective range of helicopter

63. The units for nautical miles (nm) have been added, in addition to the existing kilometers (km).

Reduction in the number of electronic devices

64. A number of electronic devices have been removed from the form as it was thought unnecessary to continue to collect information on devices that are now standard and ubiquitous across the entire fleet. Electronic devices that have been removed are navigational radar (No. 1 and No. 2), the GPS, current meter, weather facsimile, sea surface temperature gauge, wind speed / direction finder, and binoculars. A further recommendation was to keep these items in the written report and in observer training in order to maintain an observer's overall knowledge of vessel operations.

VMS (FFA type-approved)

65. As outlined previously, the VMS data fields will be amended to request the type of VMS system and the seal number.

Fishery information services

66. It was agreed that a better approach is for the observer to record the types of information that are being accessed by the vessel, e.g. phytoplankton, sea surface temperature and/or sea height.

New section for comments

67. The removal of a number of the electronic devices from the form releases space on the form. This will be filled with a comment box, with special emphasis on the collection of information on new equipment or electronics.

Well storage plan

68. A number of revisions were thought necessary for the well storage plan. Knowing whether a well was a brine type or dry well was not considered essential. As the average temperature often fluctuates between wells and over the duration of the trip, these fields will be removed. The form was changed to allow observers to record wells that were used to record fuel or water at any point.

Number of years experience

69. The intention of the form is to record the number of years experience an officer or a crew member has been in their stated position. Although training has pointed out this intention, the instructions were deemed to be inadequate and an amendment to the instructions was proposed and accepted.

FORM PS-2 • PURSE- SEINE OBSERVER DAILY LOG

New activity codes

- 70. New activity codes have been introduced in order to differentiate between periods during which rafts, FADs and payaos are deployed and the periods during which they are retrieved. The committee proposed to split the present activity code '10', which was originally given as 'Deploy / retrieve raft FAD or payao' into two different codes: '10D' for deployment and '10R' for retrieval.
- 71. It was also felt necessary to introduce an activity code that will trap the times when vessels change the beacon, and thus their beacon numbers, on certain rafts, FADs or payaos. Without this change, it is not possible to keep an accurate account of the number of times a vessel may visit an individual raft, FAD or payao. Activity codes '15R', 'Retrieve beacon (change only)' and '15D', 'Deploy beacon (change only)', will now be introduced.

FORM PS-3 • PURSE-SEINE OBSERVER SET DETAILS

Remove the percentage escapees

72. Two questions on the PS-3 form enquire if any tuna escaped and how much of the school escaped from the encircled net, before it was finally closed. Although it is possible to get such information, by reading the sonar, the data were difficult for observers to collect as it was necessary to question the officer in charge of the sonar. As setting time is a particularly tense time in the wheelhouse, such information was not always forthcoming and in some cases language barrier meant it was not possible to collect such information; therefore, it was agreed to remove these questions.

Condition caught code

73. It was noted that the form did not cater for the condition 'caught' and the condition 'let go' concerning the status of species of special interest. Changes to the form were proposed, but, instead, it was decided to develop a new form, GEN–2 (see below). This form will cater for the collection of comprehensive data for species of special interest.

FORM PS-4 • PURSE SEINE OBSERVER LENGTH FREQUENCY

Sampling protocol

74. Observers on purse seiners follow two different sampling protocols. Initially, they randomly sample five fish from each brail. Once this work is completed, they are instructed to collect length measurements from as many of the bycatch species as time allows. Previously, it was not possible to note the difference in these on the form itself, although training did indicate that observers should denote these different sample strategies by drawing a line on the form. The form will now ask observers to indicate which sampling strategy was being pursued, by ticking 'Random Sampling' when they are sampling from the brail and ticking 'Length Frequency' when they sample after brailing is complete.

Target catch species composition

75. Observers are asked to calculate the species composition of mixed sets by calculating the species composition of their sampled catch and then raising this to the total catch. At times, errors are made with these calculations and thus it was decided that the database will calculate the species composition separately. The Committee discussed the reasoning behind having the observers do the calculations, given that the database calculation is used for analysis; however, most participants felt that there was plenty of time for the observers to make these calculations on a purse seiner and it was better if they had a good understanding of the total target catch.

FORM PS-5 • PURSE-SEINE OBSERVER WELL LOADING

Additional form

76. The appearance of a number of new vessels in the region, with more than 12 port and 12 starboard wells, suggests that changes are required on this form. It was agreed that the best solution is to add a second form, to be called 'page 2', where the well numbers run from 13 to 24 for the port and starboard sides. There will now be two PS-5 forms available: 'Form PS-5 (page 1), Purse-Seine Vessel Loading (Optional)', for well numbers 1–12 and 'Form PS-5 (page 2), Purse-Seine Vessel Loading (Optional)', for well numbers 13–24.

GENERAL OBSERVER FORMS

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

Formatting changes

77. A number of formatting changes were suggested for the GEN-1 form. These included expanding the section title 'Fish Transfers' to 'Fish Transferring and Bunkering'; amalgamating the activity and transfer codes; and expanding the letters 'T' and 'S' under the previously termed

'transfer code' to include the letter 'B'. It was also felt necessary to highlight the fact that UTC is required for the date and time field.

Additional country code

78. As there are an increasing number of Vanuatu-flagged vessels fishing in the region, the country code for Vanuatu, 'VU', was added to the list.

FORM GEN-2 • SPECIES OF SPECIAL INTEREST

New Form

79. At several points during the discussions on other gear-specific observer forms, it was noted that extra information is often required for species of special interest. These species are defined as marine turtles, marine mammals, sea birds and sharks. Previously, species of special interest were called 'protected species' on the observer forms; however, this was felt inadequate as not all these species were legally protected in all jurisdictions. A new form will therefore be developed to record information concerning species of special interest.

FORM GEN-3 • VESSEL TRIP COMPLIANCE RECORD

Formatting Changes

80. To encourage observers to follow the stated requirement to complete a GEN-3 form for every trip monitored, the words "This form must be filled out" were added to the top of the form.

Targeting

81. Observers will be asked to report whether vessels 'targeted species others than those they were licensed to target' and, also, if they 'used a fishing method other than the one they are licensed to use'.

Catch of species of special interest

82. The line 'Catch marine mammals' has been amended to read 'Catch species of special interest'.

FORM GEN-5 • STOMACH CONTENTS

83. No changes were proposed for this form.

FORM GEN-6 • POLLUTION REPORT

Formatting changes

84. The committee felt that a number of formatting changes were desirable for this form and these have been implemented.

DE-BRIEFING FORMS

- 85. The purse-seine debriefing forms were presented to the meeting. Longline and pole-and-line debriefing forms have also been developed. These forms guide debriefers through the process of checking each data field recorded by the observer. The forms have data quality flags, which guide data users on the suitability of use of observer data in a number of different areas, such as estimates of target catch, estimates of non-target catch, species identification and vessel activity. During the discussion, it was emphasised that the primary objective of the debriefing forms is to set the data quality flags. The data quality flags, however, should not be highlighted in the actual form, as this might compromise the data, with observers falsifying data to meet these data quality flag requirements. For this reason it was recommend that the data quality flags should be documented separately. Debriefers also need to be specifically trained in setting these data quality flags. The participants accepted the debriefing forms and it was acknowledged that as they are new forms, they should be thoroughly reviewed at the next DCC meeting.
- 86. The Committee recognised the increasing need for the debriefing of observers, particularly those who disembark in ports without debriefers, particularly Pago Pago, and who return to home ports without debriefers. It was proposed that SPC identify a funding source for a regional debriefer who will fully debrief observers who will not otherwise have the opportunity to be debriefed.

4. PORT SAMPLING PROGRAMMES

4.1 Status of Port Sampling Programmes

87. The status of port sampling programmes is presented in Annex 5.

4.2 Review of Port Sampling Protocols

88. The protocols used by port samplers to sample lengths and species composition were reviewed. The following summarises the sampling protocols currently used by the port sampling programmes supported by SPC and FFA.

Longline

- 89. Sampling protocols for longliners are broken down into two categories:
 - sashimi grade vessels that typically fish for no more than three weeks, unload fresh fish and air freight their catch to its final destination, and
 - frozen grade vessels that typically fish for periods lasting up to six or twelve months, unload frozen fish and transport their catch by carrier vessel to its final destination.
- 90. For sashimi vessels, the sampling protocol is to record the species and length of every fish that is unloaded and, where possible, to enumerate all other fish that are not presented for unloading. Where weighing scales are available, individual fish weights are also recorded. If it is not possible to measure all fish that are unloaded, then the port sampler measures as many fish as possible.
- 91. For freezer vessels, the sampling protocol is to measure 150 randomly selected fish that were caught in the same 5° latitude by 5° longitude area and calendar month. If samplers are unable to select fish from a 5° by 5° by month stratum, then the stratum may be expanded to 5° by 10°, 10°

by 10° or 10° by 20° and one, two or three months. The time-area fished is determined from the vessel's catch and effort logsheet.

92. Port samplers attempt to sample every longliner that unloads to their harbour, except for Apia, Samoa, where 20 percent of vessels unloading are sampled.

Pole-and-line

93. Sampling of the pole-and-line catch currently occurs only in the Solomon Islands. The sampling protocol for is to measure all fish in randomly selected baskets that are unloaded from the well.

Purse seine

94. The sampling protocol for purse seiners is to measure five randomly selected fish from every net of fish that is unloaded from the well. If the selection of fish from each net is difficult or interferes with the unloading process, then port samplers may select up to ten fish from every second net. Only wells that contain fish that were caught in the same 5° latitude by 5° longitude area, the same calendar month, and that have the same school association, are chosen for sampling. If samplers are unable to identify a well with fish from a 5° by 5° by month stratum, then the area may be expanded to 5° by 10°, 10° by 10° or 10° by 20° and the time period may be expanded up to three months. The month, area and school association are determined from the vessel's catch and effort logsheet.

Troll

95. The sampling protocol for trollers is to measure 150 randomly selected fish that were caught in the same 5° latitude by 5° longitude area and calendar month. The time-area fished is determined from the vessel's catch and effort logsheet.

Discussion

Well Mixing

96. Purse-seine port samplers are asked to identify wells with fish having the same school association, fishing area and date of capture, by referring to the vessel's logsheet. It was acknowledged that vessels might shift fish to different wells after recording the information on their logsheet, thus invalidating the information that the port samplers obtain from the logsheets. The participants agreed to look at ways in which this problem could be overcome or better understood. One suggestion was to ask observers to mark or tag the fish going into wells. The tagged fish could then be used to follow any well mixing that occurred.

Rounding of length and weight measurements

97. Observers and port samplers are trained to round lengths to the whole centimetre below the measured length and to round the weight of individual fish to the nearest whole kilogram, either above or below the measured weight. Some participants questioned why length and weight measurements were rounded differently. It was explained that these procedures are international standards and that they were adopted in the early days of the region's observer programmes.

4.3 Review of Port Sampling Forms

GENERAL

Vessel identification

- 98. A request from data handlers to include the FFA Regional Register Number on all port sampling and unloading forms, in order to improve vessel identification for reconciliation of port sampling data to logsheet data, was considered and rejected. The current forms already require the country of registration and the registration number for purposes of vessel identification. However, many mainland Chinese and some Taiwanese vessels often change their registrations. Hence, the flag and registration numbers are not always effective for identification purposes. Recording the FFA Regional Register Number will only help in a portion of these cases. Rather than burden and perhaps confuse port samplers with trying to find numbers that many vessels do not have, it was considered that other methods be considered for improving vessel identification.
- 99. One approach to the vessel identification problem was to encourage all countries in which port sampling is undertaken to maintain an up-to-date list of vessels permitted to unload or tranship at their ports. This list would be forwarded to SPC. Port samplers could then be issued with a list against which to verify the correct identity of vessels they work on and instructed to report vessels that are not on the list and not to sample from those vessels until they have been added to the list. It was proposed that such a process be investigated prior to the next DCC meeting.

LONGLINE PORT SAMPLING FORM

Fishing areas

100. In some fisheries (Samoa, New Caledonia, some Papua New Guinea fleets, Palau), the sampler may find it easier to record the local in-country fishing area codes, rather than the actual latitude and longitude coordinates enclosing the area that the vessel fished in during its last trip. To cater for this, it was agreed to adjust the Longline Port Sampling Form and instructions, so that it was clear that a code could be entered into the current 'From Latitude' field.

New codes for shark fins

101. Two new codes were accepted: (a) a new species code, 'SHF', for shark fins being unloaded and (b) a new weight code, 'SF', for the weight of shark fins being unloaded.

Gilled and gutted billfish

102. The meeting agreed that, as billfish may be unloaded in a gilled and gutted state, the gilled and gutted weight code, 'GG', be listed under the billfish weight codes.

Recording unmeasured fish

103. Where fish are counted and not measured, it is better if the counts are recorded on the main section of the form, rather than the comments section. The form currently encourages the recording of unmeasured fish in the comments section. The meeting recognised that there remains a need to record numbers of some species in the comments section, such as when large numbers are unloaded rapidly, giving little time for the recording of individual fish. However, the meeting agreed to amend the comments section and instructions to encourage the recording of unmeasured species in the form's main section whenever possible.

LONGLINE UNLOADING FORM

104. No changes were proposed.

POLE-AND-LINE PORT SAMPLING FORM

105. No changes were proposed.

PURSE-SEINE WELL LOADING FORM

106. No changes were proposed.

PURSE-SEINE AND POLE-AND-LINE UNLOADING FORM

107. No changes were proposed.

PURSE-SEINE PORT SAMPLING FORM

Species composition sampled by observers vs species composition on logsheets

108. The meeting considered an option to include a field on the purse-seine port sampling form that would allow a sampler to indicate whether the fish they sampled were of a species mix that was different from what was recorded on the vessel's logsheet. The purpose of this would be to indicate that the port sampler had noticed this discrepancy and thus avoid the possibility of concluding that the port sampler's data were incorrect. However, if the samplers are carrying out their work correctly, then the information on the vessel's logsheet would already have been transposed to the port sampling form. Therefore, the meeting decided that an extra field was unnecessary.

Shark fins

109. Although rarely encountered by samplers during the unloading process, purse seiners nevertheless take shark fins. The meeting considered including a field on the purse-seine port sampling form to capture this important item, but decided that this was not the appropriate form. It was agreed that further consideration should be given to this issue.

TROLL VESSEL PORT SAMPLING FORM

110. No changes were proposed.

5. OTHER FORMS

5.1 Papua New Guinea Shark Longline Logsheet

111. The meeting agreed to modify the Papua New Guinea Shark Longline Logsheet for regional use. The new DCC form will replace the DCC Regional Shark Longline Logsheet (interim) that was published in the report of DCC4. The form will be reviewed at the next DCC meeting based on trials in Papua New Guinea.

5.2 Samoa Longline Logsheet

112. The Samoan longline logsheet was developed by the Fisheries Division and is used by the alia fleet and the larger longliners to record catch data summarised for each trip. The meeting agreed that it would be more appropriate, at least for the larger vessels in Samoa, to record data for each set using the DCC longline logsheet (or logbook, when available) and the meeting encouraged the Fisheries Division to adopt the DCC forms. The OFP and the Fisheries Division agreed to collaborate on translating the DCC forms into Samoan.

5.3 Gamefishing Forms

113. Wade Whitelaw developed the game fishing forms during his tenure with the OFP and they have not been systematically compiled since his departure in 2001. The OFP agreed to send the forms either to national fisheries agencies or directly to the gamefishing clubs.

5.4 Trip Log

- 114. The meeting agreed to adopt the Trip Log, which will be used to monitor the activities of individual vessels in order to determine logsheet coverage, with the following modifications:
- The form should be renamed the 'Fishing Trip and Port Visit Log'
- 'Vessel Activity Codes' should be replaced with 'Fishing Trip / Port Visit Codes' to avoid confusion with the activity codes on the logsheets.
- The international radio call sign should be included
- There should be a code for transiting from one port to another without fishing
- 115. The form will be tested in Fiji and Papua New Guinea and reviewed at the next meeting of the DCC

5.5 Daily FAD Fishing Logsheet for Niue and the Cook Islands

- 116. The FAD fishing logsheet was developed by the SPC Coastal Fisheries Programme, in collaboration with the OFP, to monitor changes in fishing as the result of the installation of FADs in Niue and the Cook Islands. The meeting agreed to adopt the FAD form, with the following modifications:
- The name of the form should be shortened to 'Daily FAD Fishing Logsheet'.
- The label for the date field should be changed to 'Date: DD/MM/YYYY'.
- There should be a vertical border to the above left of the label for the column for total catches; the horizontal line about the label should be removed; and the label 'TOTAL' should be moved up one row.
- 117. The form will be reviewed at the next meeting of the DCC based on trials in the Cook Islands and Niue. It was noted that Fiji and Kiribati are also interested in using the form.

5.6 Papua New Guinea Inspection Form

118. The meeting agreed to promote the use of the 'Compulsory Vessel Inspection and Checklist' (Appendix 9) that has been developed by the National Fisheries Authority in Papua New Guinea, in other member countries. The form contains several references to legislation and conditions of licensing that are specific to Papua New Guinea; hence, it was not considered appropriate for the form to be adopted by the DCC. Vessel inspections were considered to be the best mechanism to obtain information on vessel and gear attributes. It was suggested that the vessel and gear attributes on this form should be updated to be consistent with those collected on other forms maintained by the DCC.

5.7 Regional Register and Vessel and Gear Attributes

- 119. A draft revision of the Regional Register of Foreign Fishing Vessels Application For Registration was presented. Several modifications to the current form have been incorporated, including choices of units for storage capacity and engine power, rewording of 'number of crew' as 'normal crew complement', rewording of 'storage method' as 'major storage method'. It will be proposed that the application form will be submitted each year, in contrast to the current practice of submitting the application form once, followed by the submission of renewal forms on an annual basis.
- 120. The vessel and gear attributes on the draft revised Application for Registration was compared to Table 1, 'High scoring gear and vessel attributes', in SCTB15 Working Paper FTWG–9, "Vessel and gear attributes in the Forum Fisheries Agency Regional Register of Vessels: how much is enough?" The SCTB Fishing Technology Working Group (FTWG) has been concerned with the collection of information on vessel and gear attributes, since this information is extremely useful for monitoring technological trends in the industry and for statistical analyses such as the standardisation of fishing effort and the development of habitat models. It was noted that most of the high scoring vessel and gear attributes that were identified by the FTWG were not included in the draft revision of the Application for Registration, such as 'satellite sea surface images used?', 'drifting satellite buoys used?', longline mainline material, 'line shooter present?', 'bait thrower present?', purse-seine net length and depth, 'remote echo sounding buoys used?', 'pole-and-line tori poles used?'
- 121. It was also noted that certain high-scoring attributes that are on the current Application for Registration have been deleted from the draft revised form, such as longline mainline material and 'line shooter present?' It was explained that longline mainline material had been dropped because of the multitude of different spellings that were used to complete this field. However, it was suggested that this was simply a problem with the formatting of the form and that the formatting problem would be resolved if the two main materials (kuralon and monofilament) were presented with tick boxes.
- 122. In this regard, it was noted that at DCC4, it was considered that the layout, formatting and instructions for the form could be improved, but that these aspects of the draft revised form were much the same as the current form.
- 123. It was suggested that the amount of information on vessel and gear attributes would be limited by the space available on the form. However, it was noted that a whole page is used for the 'declarations' section, whereas this page could also be used for other information.

- 124. A justification for the low number of vessel and gear attributes on the Application for Registration compared to the number of high-scoring attributes identified by the FTWG was that the Regional Register is primarily concerned with compliance, rather than with the collection of information that is useful for research purposes. On the other hand, it was noted that until such time as the coverage of the fleets by port inspections and observer programmes becomes significant, the Application for Registration will remain the best mechanism available in the region for the collection of this information. This was the primary reason why SCTB14, with the support of the participants from FFA, had directed the FTWG to consider those vessel and gear attributes that should be included on the Application for Registration.
- 125. The next steps in the development of the revision of the Application for Registration will be to consider the comments made at DCC5, which primarily concern the inclusion of the high-scoring attributes identified by the FTWG (and the modifications to those attributes that were suggested at DCC5 during consideration of the draft longline logbook, such as replacing 'satellite sea surface images used?' with tick boxes for several types of satellite data). Comments to be made at the US Treaty Consultation in March 2003 will also be considered. The final revision will then be presented at the sixth meeting of the Forum Fisheries Committee (FFC) MCS Working Group in March 2003. The report of the MCS Working Group will then be considered by FFC at its meeting in May 2003.

6. DATA MANAGEMENT ISSUES

6.1 Provision of Compliance Forms by SPC to FFA

126. The meeting agreed that FFA member countries should be instructed to send their observer programme compliance forms to SPC, together with the other observer forms. SPC will then send the compliance forms to FFA. This will simplify things for the members, which now send the compliance forms to FFA and the other forms to SPC.

6.2 Entry of Observer Vessel and Gear Attribute Data by SPC

127. The meeting noted that SPC has cleared the backlog of data entry for the vessel and gear attributes on the PS-1 observer form and has begun entering the vessel and gear attribute data on the LL-1 forms.

6.3 Provision of VMS Data by FFA to the OFP

- 128. The provision of VMS data by FFA to SPC has recently been discussed at various levels within the two organisations. These data will be used by SPC to determine logsheet coverage and to verify the vessel positions that are recorded on logsheets. SPC will develop software to do these tasks and the programmes will also be incorporated into the in-country fisheries database systems that SPC supports.
- 129. It was noted that the VMS data are owned by the FFA member countries and therefore that the FFA members must authorise the release of their VMS data to SPC. FFA agreed to request this authorisation from its members in a letter from its Director.

6.4 Entry of US Treaty and FSM Arrangement Data by SPC

130. It was suggested that it would be more efficient if the US Treaty observer programme forms PS-1, PS-2 and PS-3 were entered by SPC, rather than by FFA. FFA currently has the data entered by relatively young and inexperienced part-time staff and there are many data errors as a result. It was proposed that FFA scan the data and send them to SPC via email or on CD and that SPC enter the data and send the data files back to FFA. The SPC and FFA data managers will further discuss the various aspects of this proposal, including arrangements for a trial and the cost to SPC.

6.5 Provision of NMFS Port Sampling Data From NMFS Directly to SPC

- 131. The port sampling data collected by NMFS under the US Treaty are first provided to FFA, which then sends the data to SPC on request. It was suggested that it would be much more efficient if NMFS was authorised to send the data directly to SPC. FFA agreed to propose this at the next Treaty Consultation in March 2003.
- 132. In August 2002, SPC requested summary statistics concerning the proportion of bigeye in 'yellowfin plus bigeye' from NMFS, but provision of these statistics had been delayed partly because NMFS was not authorised to release these statistics directly to SPC. FFA agreed to propose that NMFS also be authorised to provide statistics determined from the port sampling data directly to SPC.

7. OTHER BUSINESS

7.1 Next meeting of the DCC

133. The participants agreed that holding the meeting every two years continues to be appropriate. It was therefore agreed that the next meeting of the DCC should take place in December 2004, unless circumstances arise that necessitate holding the meeting earlier.

7.2 Guidelines for the Participation of Observers

134. It was recognised that the meeting benefited considerably from the presence of the nine observers and that its objectives had been achieved, although it proceeded at a much slower pace than past meetings at which only one or two observers were present. The SPC and FFA participants therefore agreed that the number of observers at future meetings should be such that the DCC is not prevented from achieving its objectives. It was further agreed that preference will be given to observers invited by SPC and FFA; other observers will be considered on a request basis.

7.3 Distribution of the Report of DCC5 at SCTB16

- 135. The meeting was advised that the Standing Committee on Tuna and Billfish had requested that the report of DCC5 be distributed at the next meeting of the SCTB, which will be held in Mooloolaba, Australia, from 7 to 16 July 2003.
- 136. It was noted that there had been some confusion outside the DCC concerning the roles of SCTB and DCC with regard to data collection forms and minimum standards for data collection. The DCC is responsible for developing data collection forms for the FFA member countries and the

SPC member countries and territories. While the DCC forms are widely used in the region, many other forms are also used by various agencies of both member and non-member countries. Therefore the forms developed by the DCC cannot be considered standard forms for all fleets fishing in the WCPO.

137. The SCTB, in contrast, has not developed actual data collection forms. Instead, it has, through its Statistics Working Group, established minimum data standards for logsheets used in the WCPO. It may, in the future, establish minimum standards for other types of data collection forms, such as observer forms. Rather than developing actual logsheets for the WCPO, the SCTB Statistics Working Group has reviewed the logsheets already used in the region by comparing them to the minimum data standards. It has made recommendations for changes in the content and formatting of the logsheets where they have not been consistent with the minimum data standards. In fact, the recommendations of the SCTB Statistics Working Group that were made as a result of reviewing the DCC logsheets were largely responsible for the DCC's decision to develop a longline logbook.

7.4 Harmonisation of IATTC and DCC Forms

- 138. The meeting was advised that NMFS and the Inter-American Tropical Tuna Commission were in contact regarding the translation of the instructions for the IATTC observer forms from Spanish into English. This came about in response to US Treaty observers being placed on United States purse seiners that went from the WCPO to the Eastern Pacific Ocean. There is currently an agreement between FFA and IATTC regarding the use of US Treaty observers in the EPO.
- 139. The meeting was also advised that IATTC had considered attending DCC5 in order to harmonise the data collection forms developed by DCC with the forms developed by IATTC. However, IATTC decided that it was more appropriate to harmonise the data standards for the WCPO and the EPO, rather than the data collection forms, and so this matter will be introduced at SCTB16 during the session for the Statistics Working Group.

8. CLOSING

140. The Chairman thanked the participants for their contributions and noted in particular the valuable input provided by the observers. The meeting was then closed with a vigorous round of applause.

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APPENDIX 1. AGENDA

1. PRELIMINARIES

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

2. REVIEW OF CATCH AND EFFORT LOGSHEETS

- 2.1 General
- 2.2 Longline
- 2.3 Pole-and-line
- 2.4 Purse seine
- 2.5 Handline
- 2.6 Implementation of DCC logsheets
- 2.7 Draft longline logbook

3. OBSERVER PROGRAMMES

- 3.1 Status of observer programmes
- 3.2 Review of observer sampling protocols
- 3.3 Review of observer forms

4. PORT SAMPLING PROGRAMMES

- 4.1 Status of port sampling programmes
- 4.2 Review of port sampling protocols
- 4.3 Review of port sampling forms

5. OTHER FORMS

- 5.1 Papua New Guinea shark longline
- 5.2 Samoan longline logsheet
- 5.3 Game fishing forms
- 5.4 Trip log
- 5.5 Daily FAD fishing logsheet for Niue and the Cook Islands
- 5.6 Papua New Guinea inspection form
- 5.7 Regional Register and vessel and gear attributes

6. SPC/FFA DATA MANAGEMENT ISSUES

- 6.1 Provision of compliance forms by SPC to FFA
- 6.2 Entry of observer vessel and gear attribute data by SPC
- 6.3 Provision of VMS data by FFA to SPC
- 6.4 Entry of US Treaty and FSM Arrangement data by SPC
- 6.5 Provision of NMFS port sampling data from NMFS directly to SPC

7. OTHER BUSINESS

- 7.1 Next meeting of the DCC
- 7.2 Guidelines for the participation of observers
- 7.3 Distribution of the report of DCC5 at SCTB16
- 7.4 Harmonisation of IATTC and DCC forms
- 8. CLOSING

APPENDIX 2. LIST OF WORKING PAPERS

- WP 1 Anonymous. 2001. Report of the Fourth Meeting of the Tuna Fishery Data Collection Committee, 6–8 December 2000, Brisbane, Australia. Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia, and Forum Fisheries Agency, Honiara, Solomon Islands.
- WP 2 Proposed Changes to the DCC Logsheets.
- WP 3 An Update on the Implementation of the South Pacific Regional Logsheet Forms in the Western and central Pacific Tuna Fisheries.
- WP 4 Methods and Procedures for the Implementation of the Proposed "South Pacific Regional Daily Longline Logbook".
- WP 5 Consideration for Collecting Information on the Deployment and Use of Drifting FADs Using the Regional Purse Seine Logsheet.
- WP 6 Status of Sampling Programmes in the Central and Western Pacific Region and Some Neighbouring Tuna Fisheries.
- WP 7 South Pacific Regional Sampling Protocols
- WP 8 Proposed Changes to DCC Port Sampling and Observer Forms.
- WP 9 Consideration of the Collection of Baseline Data to Improve the Coverage of Catch Logsheets Data and the Quality of Annual Catch Estimates.
- WP 10 Itano, D.G. 2002. Vessel and gear attributes in the Forum Fisheries Agency Regional Register of Vessels: how much is enough? Working Paper FTWG–9. Fifteenth Meeting of the Standing Committee on Tuna and Billfish, 22–27 July 2002, Honolulu, Hawaii, United States of America. Pelagic Fisheries Research Programme, University of Hawaii, Honolulu, Hawaii, United States of America. 12 pp.
- WP 11 Whitelaw, W. 2002. AFMA Observer Programme Project Plan for 2002/03. AFMA Observer Programme Report No. OBS-2002-106. Australian Fisheries Management Authority, Canberra, Australia.
- WP 12 Pakop, N. and W. Kewo. 2002. Observer Program. National Fisheries Authority, Port Moresby, Papua New Guinea.
- WP 13 Catch Effort Reference Library, Version 1.0 July 2002. Research Data Management Group, Ministry of Fisheries, Wellington, New Zealand. (Compact disk)

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APPENDIX 4. STATUS OF IMPLEMENTATION OF SOUTH PACIFIC REGIONAL LOGSHEETS

SPC/FFA MEMBER OR ARRANGEMENT	GEAR	FLEET	LOGSHEETS RECEIVED?	STATUS OF IMPLEMENTATION OF SOUTH PACIFIC REGIONAL LOGSHEETS
American Samoa	Longline	Taiwan (DWFN)	Partial	Few vessels from this fleet provide data on regional standard (as per Fiji)
Cook Islands	Longline	Locally-based fleet	Yes	Local longline fleet using Regional longline logsheet
FSM Arrangement	Purse seine	Vessels operating under the FSM Arrangement		Introduced during 1996. All fleets use the regional standard logsheets.
		FSM	Yes	
		Marshall Islands	Yes	
		Papua New Guinea	Yes	
		Solomon Islands	Yes	
		Kiribati	Yes	
		Vanuatu	Yes	
Fiji	Longline	Fiji (domestic fleet) + locally- based joint-venture vessels	Yes	All vessels now appear to be using the regional longline logsheet.
		Taiwan (DWFN)	Partial	Few vessels from this fleet provide data on regional standard (as per Pago Pago)
	Pole-and-line	Fiji (domestic fleet)	(No)	This fleet use a customised form requiring baiting locations; No indication of recent fishing activities
Federated States of Micronesia	Longline	Mainland China	Partial	This fleet now uses regional logsheets, albeit a slightly modified version. Also, there are sometimes the odd non-standard logsheet.
		Domestic FSM fleet	Partial	Partial success. There are some vessels that are still using alternative forms.
		Guam-based US fleet	Yes	This fleet now uses regional logsheets
		Japanese longline	Yes	This fleet now uses regional logsheets. This is a version that the Japanese companies have provided.
		Taiwanese longline	Partial	Some companies use a modified version of the regional standard having slight differences compared to the regional standard.
	Pole-and-line	Japanese pole-and-line	Yes	This fleet now uses regional logsheets
	Purse seine	Domestic fleet (Yap Fishing Corporation)	Yes	Introduced (see FSM Arrangement)
		Domestic fleet (CFC)	Yes	Introduced (see FSM Arrangement)
		Japanese purse seine	Yes	This fleet now uses regional logsheets
		Korean purse seine	Yes	This fleet now uses the regional logsheets.
		Taiwanese purse seine	Yes	Regional logsheet translated and distributed by the Taiwanese Deep-Sea Tuna Boatowners Association
Kiribati	Longline	Japan	No	No indication of introduction of new forms
		Korea	No	No indication that the form has been introduced as yet.
	Pole-and-line	Japan	No	No indication of introduction of new forms
		Japan	Partial	Very few standard forms coming through, mainly as a result of FSM requirement to use standard forms.
		Domestic PS vessel	Yes	Introduced (see FSM Arrangement)
	Purse seine	Korea New Zealand	Yes No	Introduced at regional level. Non-standard form used for activities in Kiribati waters, but standard form appears to
		Spain	Yes	be used for activities elsewhere. This float uses the regional standard lessheet.
		Spain Taiwan	Yes	This fleet uses the regional standard logsheet.
Marshall Islands	Laudina	Mainland China	No	Regional logsheet translated and distributed by the Taiwanese Deep-Sea Tuna Boatowners Association
Marshan Islanus	Longline		Partial	Fleet hasn't been active for several years. No indication of introduction of new forms
		Japan Domestic fleet	raitiai	Very few standard forms coming through, mainly as a result of FSM requirement to use standard forms. Fleet not active as at November 1996
			NI-	
		Taiwan	No	Fleet becoming active again. Some vessels using the regional standard, some using the No indication of introduction of new forms
		Locally-based US fleet		No US vessels active as at November 1996
	Pole-and-line	Japan	No	No indication of introduction of new forms
	Purse seine	Japan	No	No indication of introduction of new forms, although there are one or two standard
				logsheets for trips in FSM waters that are received though Marshall Islands
		Korea	Yes	Introduced at regional level.
		New Zealand	Yes	Non-standard form used for activities in Kiribati waters, but standard form appears to
		Taiwan	Yes	be used for activities elsewhere. Regional logsheet translated and distributed by the Taiwanese Deep-Sea Tuna Boat-
Nonen	Pole-and-Line	Ionon	No	owners Association. No indication of introduction of new forms
Nauru	Pole-and-Line Purse Seine	Japan	No No	No indication of introduction of new forms No indication of introduction of new forms
	r urse seine	Japan Koraa		Introduced at regional level
	I	Korea	Yes	introduced at regional level
		Taiwan	Yes	Regional logsheet translated and distributed by the Taiwanese Deep-Sea Tuna Boat-

Appendix 4 (continued)

SPC/FFA MEMBER OR ARRANGEMENT	GEAR	FLEET	LOGSHEETS RECEIVED?	STATUS OF IMPLEMENTATION OF SOUTH PACIFIC REGIONAL LOGSHEETS
New Caledonia	Longline	Japan	No	No activity in recent years
		Locally-based fleet	(No)	French translation of regional logsheet provided, but local fleet now use a customised form. In recent months they have switched back to the regional standard.
Nuie	Longline	Taiwan	No	No indication of introduction of new forms. No recent activity.
French Polynesia	Longline	Locally-based fleet	Yes	French version used, data processed by SMR, Papeete.
		Korea	No	No indication of introduction of new forms (Data are processed locally).
Papua New Guinea	Longline	Japan	No	No recent fishing activity
		Locally-based fleet	Yes	Introduced for US vessels and local longline fleet
	Purse seine	Korea	Yes	Introduced at regional level.
		PNG (domestic)	Yes	All companies now using regional standard
		Philippines	Yes	This fleet uses the regional standard logsheet.
		Taiwan	Yes	Regional logsheet translated and distributed by the Taiwanese Deep-Sea Tuna Boatowners Association.
Palau	Longline	Mainland China	Yes	Regional standard used by this fleet
		Japan	No	No recent activity
		Taiwan	Yes	Regional standard used by this fleet
		Guam-based US fleet	No	No recent activity.
	Pole-and-line	Japan	No	No indication of introduction of new forms (No recent activity)
	Purse seine	Japan	No	No indication of introduction of new forms (No recent activity)
Samoa	Longline	Locally-based fleet	No	A local form is used by the fleet.
		Taiwan	No	No indication of introduction of new forms. No recent activity by this fleet in Samoa
Solomon Islands	Longline	Japan	No	No indication of introduction of new forms
		Locally-based fleet	No	Data in recent years provided on non-standard form
		Taiwan	No	Data in recent years provided on non-standard form
	Pole-and-line	Japan	No	No indication of introduction of new forms
		Locally-based fleet + Kiribati	(No)	(Data processed by Solomon Islands Fisheries Division)
	Purse seine	Korea	Yes	Introduced at regional level.
		Phillippines		No recent activity
		Domestic fleet	Yes	Introduced (see FSM Arrangement)
	Purse seine	Taiwan	Yes	Regional logsheet translated and used by Taiwanese PS fleet.
Tonga	Longline	Domestic fleet	Yes	Regional logsheet is used by this fleet.
Tuvalu	Longline	Japan	No	No indication of introduction of new forms
		Korea	No	No indication that the form has been introduced as yet.
	Purse seine	Japan	Partial	Very few standard forms coming through, mainly as a result of FSM requirement to use standard forms.
		Korea	Yes	Standard form used throughout
		New Zealand	Yes	Non-standard form used for activities in Kiribati waters, but standard form appears to be used for activities elsewhere.
US Multilateral Treaty	Purse seine	US fleet	Yes	Latest version introduced in June, 1997
Vanuatu	Longline	Fiji	Partial	Some non-standard forms received recently
, 11111111		Taiwan	(No)	No indication of introduction of new forms. Very few regional standard forms received.

APPENDIX 5. STATUS OF PORT SAMPLING AND OBSERVER PROGRAMMES

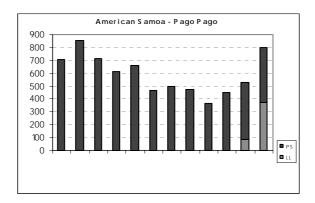
Length and species composition data for stock assessment are currently collected through port sampling programmes in 26 harbours throughout the region and are an essential input to assessment analyses for Pacific Ocean tuna stocks. The first observer programme in the region started nearly thirty years ago and programmes have been developing slowly in regional and national organisations through the region ever since. The programmes were created to monitor activities such as compliance with licensing agreements and restrictions on incidental catches, but were soon recognised for providing the only reliable, detailed information on catches discarded at sea, catch and bycatch statistics at the species level and fishing effort information. Greater importance is being given to these types of information than ever before and observer programmes in the region are now expanding rapidly. With port sampling and observer programmes inevitably linked through the nature of the data they collect, it is necessary that the activities are well coordinated both within and amongst programmes. This report will provide a tool for programme staff and others to keep abreast of developments in portside and at-sea data collection in this region.

The first issue of this report summarises the current status of port sampling and observer programmes throughout the region, programme by programme. It sets a basic framework in which to develop a living document providing up to date information on size, level of activity, fleets targeted, sampling strategies and protocols, difficulties, successes and trends. Those that find such a document useful are invited to send comments, criticisms and suggestions for improvements to Mr Peter Sharples, Port Sampler and Observer Coordinator, Oceanic Fisheries Programme, Secretariat of the Pacific Community: peterbs@spc.int.

Sets of histograms depicting port sampling and observer activity are presented for each country. The **port sampling** activity of longliners, trollers and pole-and-line vessels is measured as the number of vessels sampled. Port sampling activity of purse seiners is measured as number of samples taken. A purse-seine sample is a sample of fish from one or more wells that contain fish either from a single set or from a combination of sets that are of the same set type and come from the same area and time. For each port in which sampling takes place, there is a histogram depicting the annual level of sampling of the different gear types. For countries that have monitoring of unloadings in more than one port, there is also a histogram to show activity for all ports combined. Abbreviations used for gear types in these histograms are: PS = purse seine; LL = longline; PL = pole-and-line; and T = troll. The **observer** activity is measured as the number of discrete observer trips. For each country, there is a histogram for each gear type, depicting the annual activity. (Future updates of this report will use observer sea-days as the measure of observer activity.) Abbreviations used for gear types in observer histograms are: S = purse seine; L = longline; and P = pole-and-line.

American Samoa

Port sampling – The National Marine Fisheries Service has had a port sampling team that attempts to sample from every United States vessel that unloads in Pago Pago. The majority of this sampling is from purse seiners for which sampling strategy is to sample from a minimum of one set type per month per sampling area per vessel. Seasonal fish from the Sub-Tropical Convergence Zone albacore troll fishery and the occasional United States longliner are also sampled and data from these are supplied to SPC in aggregate form. SPC and NMFS have provided funding and/or technical support in a variety of combinations to employ a third sampler off-and-on since 1999. The principal role of this sampler has been to sample Taiwanese longliners; Taiwan has provided the funds for the SPC component of this sampling. The Department of Fish and Wildlife conducts creel surveys of the domestic alia fleet, but only samples the large alias.



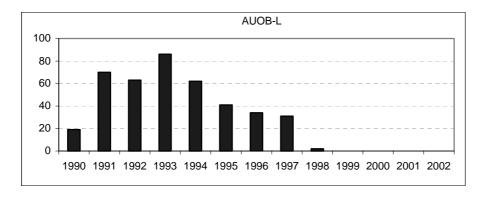
Observers – American Samoa has not previously had its own observer programme. However, NMFS has provided considerable support in Pago Pago for the US Treaty observers, for which Pago Pago is the principal port of embarkation and disembarkation.

In 2002, at the request of the American Samoan government, the NMFS office in Hawaii is helping to set up an observer programme. The plan is to have twelve observers to cover the American Samoa fleet of forty longliners. There is a target of 50 observer trips in 2003. To date, four American Samoa observers have been trained and each has undertaken an observer trip in Hawaii. NMFS will endeavour to harmonise the data collection protocols with those of the region.

Australia

Port sampling – the Australian Fisheries Management Authority (AFMA) contracts out port length frequency sampling under research projects. A significant proportion of the catch is measured.

Observers – AFMA administers the Australian Fishing Zone (AFZ) Observer Programme that covers a wide range of vessels operating in the AFZ and in some of the adjacent CCAMLR statistical areas. The Observer Programme Administrator coordinates the programme from Canberra. The relevant stakeholders in each fishery determine observer programme requirements and priorities before they are implemented. The primary objective of the Observer Programme is to collect data on fishing operations, catches, and interactions with the environment by the vessel and its fishing gear. For tuna fisheries, a vigorous observer programme started at the end of the 1980s and existed until 1997, when the access agreement with the Japanese longline fleet was not renewed. The Observer Programme was recently re-established in order to cover domestic longliners.



In 2002, the Observer Program operated under a new structure, with full cost-recovery. The Observer Program includes an Observer Coordination Unit and an Observer Service Provider Unit. Coverage of the Pacific tuna fishery currently operates under the Threat Abatement Programme

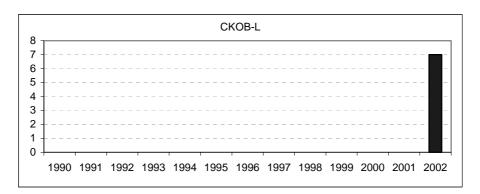
(TAP), with very specific tasks, and an agreement under which industry will fund 10% coverage may soon be concluded. The Observer Programme will not have a compliance role.

Cook Islands

Port sampling – The Ministry of Marine Resources (MMR) Observer Coordinator and other MMR staff carry out port sampling of a rapidly growing longline fleet. Nineteen longliners are currently licensed to fish in Cook Island waters, but generally only ten to twelve unload in Rarotonga on a regular basis. Others are unloading either in Pago Pago, are on short-term licenses, or are in New Zealand for service and repair.

Observers - The Cook Island Observer Programme operates under MMR. The Cooks have two distinct longline fisheries - the northern Cooks, which lands frozen fish to the canaries in Pago Pago, and the southern Cooks, which is exporting fresh fish to Japan and the United States. Although participants from the Cook Islands attended several regional observer training workshops sponsored under US Treaty and AusAid funds administered by FFA, they previously only worked for the US Treaty observer programme. A small national observer programme was first proposed in 1997, but until 2002 just three trips were undertaken in the Cook Islands and these were carried out under the SPC Observer Programme.

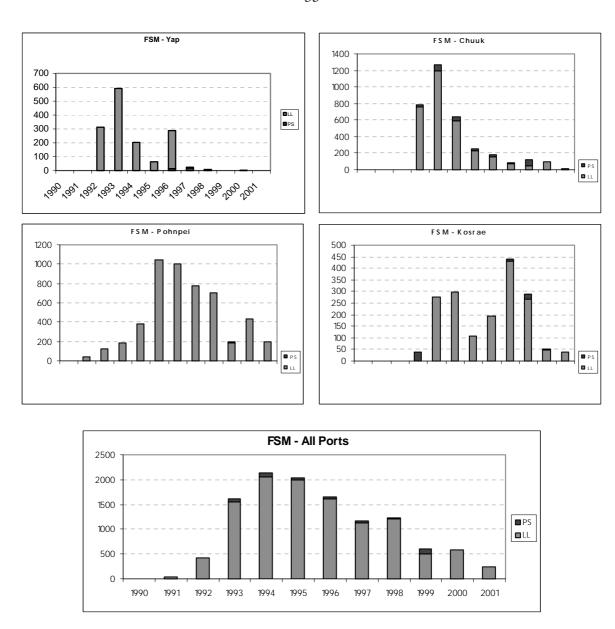
In 2002, the Cook Islands had their first national observer training programme for 12 participants. An Observer Coordinator has been appointed and there is a plan for 20% coverage of both fleets. To date, data from seven longline trips have been received by the OFP and coverage at this stage is already 6%. However, the number of available observers has declined, such that there are currently only two, including the Coordinator; hence, there is a need to train more observers.



Federated States of Micronesia

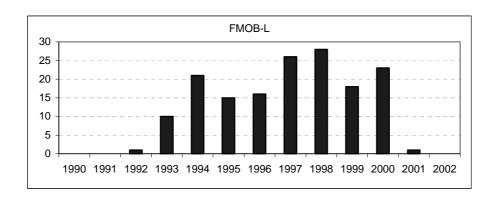
Port sampling – The Federated States of Micronesia employs one full-time port sampler in each of its four island states – Yap, Chuuk, Pohnpei and Kosrae. These long-term employees sample purse seiners and longliners from Japan, Korea, Taiwan and mainland China, as well as an occasional United States longliner and Australian shark longliner.

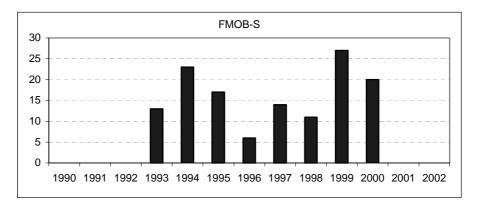
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Observers - The FSM Observer Programme operates under the newly formed National Oceanic Resource Management Authority (NORMA) and previously operated under the Micronesian Maritime Authority (MMA). The longest running national observer programme amongst Pacific Island countries, it has operated since the early 1990s. It was first established in an effort to gain insights into industrial tuna fisheries, with the goal to transpose the knowledge learnt into developing a domestic tuna fishery. It has since developed into a very capable scientific and compliance data collection unit.

FSM has longliners from Japan, China and Taiwan and purse seiners from Japan, Korea, Taiwan and the United States. It also has its own domestic longliners and purse seiners. Overall coverage for combined gear types has seldom been above 3%. However, NORMA recognises that a 5% coverage of the fishing effort in each of the fleets is a minimum for any useful extrapolation to total catches and subscribes to the regional goal of 10%, whilst recognizing an ideal of 20% coverage, as is currently carried out under the US Treaty. Several reasons have hindered FSM achieving better coverage, not least because their access agreement with Japan has been very restrictive as to the number of observer trips that can be carried out. Every loophole in the agreement possible has been used to resist increasing observer coverage.

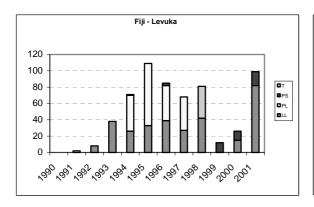


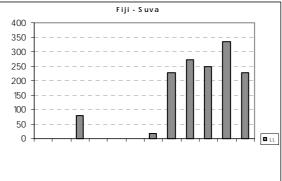


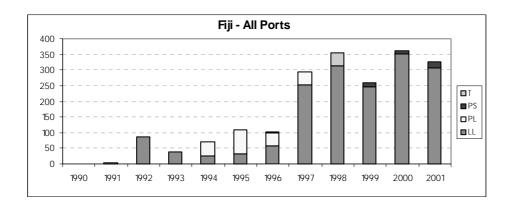
In 2002, there were twelve fully operational observers available, at least eight of which are very experienced and a couple of them the most experienced observers in the region. There are no immediate plans to expand the observer programme, but it has been recognised that further expansion is required in order to meet coverage goals.

Fiji

Port sampling – SPC has funded port-sampling activities in Levuka and Suva since the early 1990s. In Levuka, sampling initially targeted albacore landings by foreign longliners and expanded to cover pole-and line vessels from 1994 until they ceased operations in 1997. In 1998 troll vessels from the SCTZ, unloaded and were sampled at Levuka instead of their traditional unloading port of Pago Pago and since 1999 there has been sampling of purse seine yellowfin and skipjack catches. In Suva, sampling has targeted mainly the domestic longline fleet, at four processing plants, but expanded to cover transhipments of DWFN longliners at the main wharf.





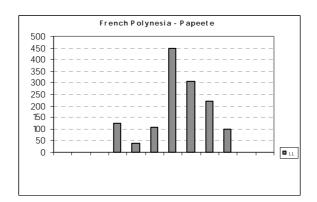


Observers – A National Observer Training Workshop was held in Suva in 1997. Although the Ministry of Agriculture, Fisheries and Forestry Fisheries Division committed to appointing a member of staff to plan and coordinate an observer programme, internal problems have meant that by 2002, the observer programme had not yet been established.

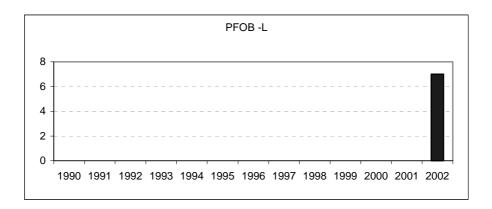
In 2002, a new tuna fisheries development plan placed greater emphasis on the need for better data collection. A second national observer-training workshop was held, a new observer coordinator was appointed utilising Global Environment Facility (GEF) funds, and a comprehensive port-sampling programme recommenced in Suva. The ten new observers spread their efforts between port-sampling and observer duties, sampling nearly all vessels that unloaded and carrying out ten observer trips. Observers and port samplers work primarily with tuna, but can be utilised to cover other fisheries, such as snapper, live reef fish and an occasional trial fishery. The programme intends to increase the number of observers by five in 2003 in order to increase the level of coverage. While SPC still funds port sampling activities in Levuka and funds Fiji's Port Sampler and Observer Coordinator, all other port sampling and observer activity is now funded by the Fiji fishing industry.

French Polynesia

Port sampling – There has been regular sampling of the catch that is landed in Papeete for several years but with a low level of coverage. With the rapid increase in the number of vessels and with further increases anticipated, there is a need to increase coverage.

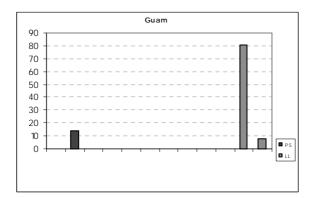


Observers – French Polynesia recently received funding for the salary of a national observer coordinator and for training, equipping and contracting observers on a trip-by-trip basis. Two observers and the Coordinator are currently conducting observer trips.



Guam

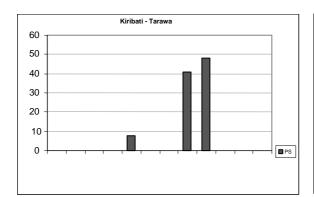
Port sampling — Guam has been a centre of unloadings and transhipments for the central and northern Pacific tuna fisheries for many years. However, as the fish unloaded or transhipped have not been caught in Guam waters, there is no incentive to install a monitoring programme. A few purse seine unloadings between 1988 and 1991 were sampled as part of the NMFS US Treaty sampling programme but stopped when the US vessels stopped transhipping there. Between 1996 and 2001 several efforts were made by SPC and the Federated States of Micronesia, which allows many foreign vessels to unload in Guam, to install port-sampling programmes but apart from a brief period of success in 2000 these have failed. On the other hand, the meeting noted that the Department of Commerce has, for many years, collected packing lists, which contain the weights of individual fish exported through Guam, and that the packing lists have been made available to SPC.

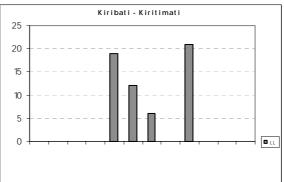


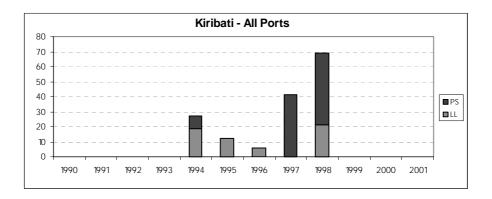
Observers – There is no observer programme in Guam, but observers from other programmes often embark and disembark from vessels that unload or tranship there.

Kiribati

Port sampling – There has been no port-sampling programme in Kiribati, but the Ministry of Natural Resource Development (MNRD) supports such monitoring in principal. MNRD Fisheries Section staff have occasionally been used to carry out sampling under SPC-funded initiatives on purse seiners in Tarawa and longliners in Kiritimati. Transhipment in Kiribati tends to be sporadic, making it difficult to maintain an ongoing port sampling team. However, recent addition of trained observers available on a contract basis should provide a pool of potential port samplers to alleviate this problem.







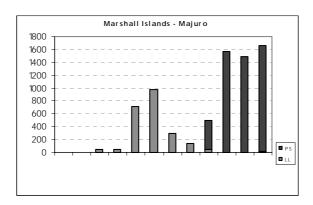
In November 2002 SPC provided further funds and training so that the Pacific purse seine fleet, unloading at Kiritimati as a result of unusual El Nino related fishing conditions, could be sampled. Newly-trained observers, contracted on a piecework basis, were used to carry out this work.

Observers - Kiribati has had a national observer programme since 1996, when FFA and SPC conducted one of the first national observer training courses to be held in the region. However, the provisions in access agreements for observer coverage of foreign vessels have rarely been used. Between 1996 and 2001, there were only two observer trips taken, one of which was funded by SPC. A second training course was conducted in Tarawa in 2001 and a third on Kiritimati in 2002. Since 2001, there has been an improvement in placing observers on foreign fishing vessels, although this is still hampered by weak provisions for observer coverage in access agreements.

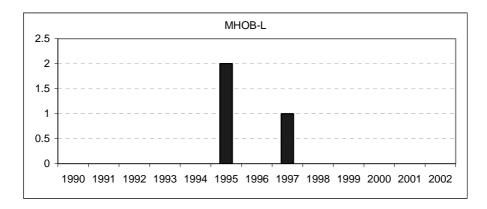
In 2002, ten observer trips were carried out and at the end of 2002, a new observer coordinator was appointed, utilising GEF funds administered by SPC.

Marshall Islands

Port sampling – In recent years, there has been a large amount of port sampling data collected from the purse-seine fleets that tranship in Majuro. This sampling mainly utilises the observers that have been trained in two workshops there and who are paid directly through the fishing vessel agents. Unfortunately, the quality of data has been erratic – good after an SPC visit to upgrade samplers, but tending to deteriorate quickly afterwards. The Marine Resources Authority is currently looking at ways to resolve this problem and has asked SPC for assistance.



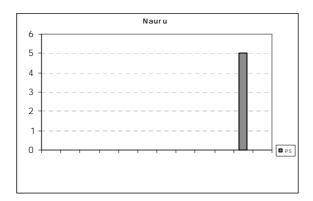
Observers – Two large observer training workshops have been held, but only three successful trips (on longliners) have been carried out since 1995. The low level of observer activity has been due to poor selection of candidates for observer training courses and to observers being fully utilised for port sampling, due to recent high numbers of transhipments. Other factors have been unrealistic payment schedules and difficulties in funding observers through industry.



In 2002, MIMRA began investigating means to improve the observer and port sampling programmes. Their first priority is to identify funding and hire a coordinator for the sampling programmes; SPC has been asked to assist in this regard.

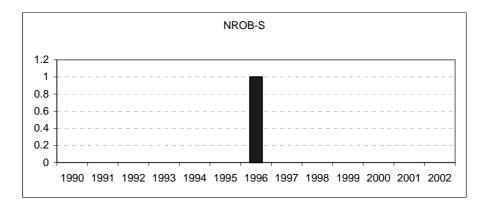
Nauru

Port sampling – In 2000 five vessels were sampled by Nauru Fisheries staff receiving training in port sampling techniques from the OFP at the request of the Nauru government. There has been no further port sampling activity in Nauru.



Observers – One observer trip was carried out onboard a Japanese purse seiner in 1996. The observer himself organised this trip. Otherwise, there is no regular observer programme. However,

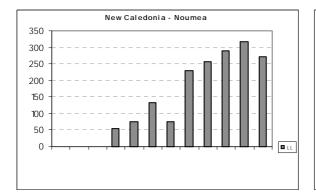
Nauru does have some observers who have received regional training for the US Treaty and the FSM Arrangement observer programmes.

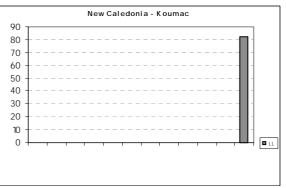


In 2002, there were no plans for further development of port sampling or observer programmes in Nauru.

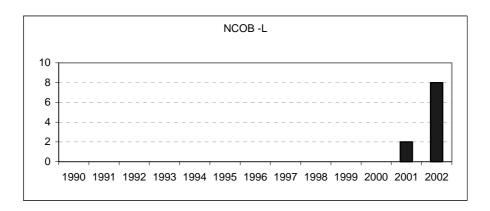
New Caledonia

Port sampling – SPC, with the support of the Service de la Marine Marchande et des Pêches Maritimes, has continuously funded and conducted port sampling in Nouméa for 15 years. Prior to 1993 this sampling was related to specific projects and data was not collected in standard form. Between 1993 and 2002 piecework-contracted samplers, supervised directly by the OFP, undertook regular sampling. In 2002 the programme was expanded, with funding through SPC, to cover the new longliner port of Koumac. Port sampling has and will predominantly cover the New Caledonia domestic longline fleet, but has from time to time also sampled from Japanese longliners that occasionally tranship in Nouméa.





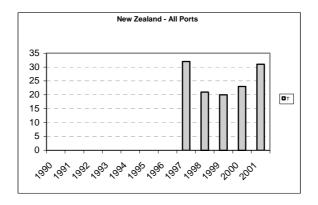
Observers – In 1996, eight observers were trained to cover Japanese longliners fishing in New Caledonian waters. However, the access agreement with Japan was not renewed. In 2001 New Caledonia's Marine Marchande conducted two pilot longline observer trips on domestic vessels as they prepared to install a new Observer Programme.



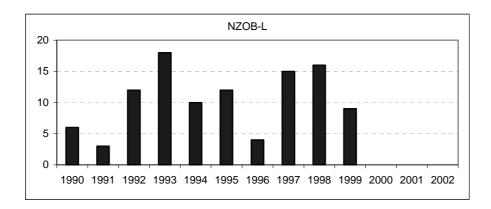
In 2002, a new observer programme was established, with the aim of covering the domestic fishery. This programme, which is funded by European Commission funds administered by SPC, currently has an Observer and Port Sampling Coordinator, four port samplers and one observer.

New Zealand

Port sampling – There has been no port-sampling programme covering tuna in New Zealand. However, Taiwanese funds administered by SPC were used from 1997 to 2000 to contract the National Institute of Water and Atmospheric Research to conduct sampling of albacore from the troll fishery in principal landing ports. This task has since been taken over by the Ministry of Fisheries.



Observers – Technicians from the former Ministry of Agriculture and Fisheries carried out trips on United States purse seiners in the late 1970s and early 1980s. The current New Zealand Observer Programme operates under the Ministry of Fisheries. There is a pool of around 50 observers that are contracted on a trip-by-trip basis. Training 15 new observers a year maintains the number of available observers. Most observing is conducted in non-tuna fisheries. Coverage of tuna longline fisheries has been low, but continuous, since trips were first carried out in 1987. An overall doubling of the Observer Programme to 100 observers and 10 shore staff during the next 24 months has been proposed, in order to address growing bycatch concerns.



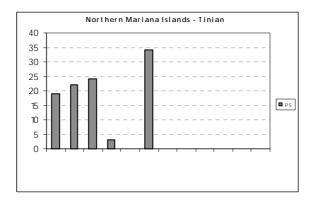
In 2002, there were 720 observer sea days planned for longliners; there were 439 in 1999 and 770 are forecast for 2003. As for previous years, half of the observers' activity will take place on domestic longliners and half on foreign joint-venture vessels.

Niue

There is no port sampling or observer programme in Niue, but one observer from Niue has participated in the US Treaty Observer Programme and more are expected to attend regional training courses in 2003.

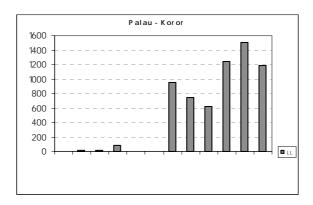
Northern Marianas

Between 1988 and 1995 the United States National Marine Fisheries Service sampled the portion of the US Treaty purse seine fleet that was based in the Northern Marianas from where it transhipped catch to canneries elsewhere. Sampling stopped when those vessels began transhipping in ports closer to fishing grounds or carrying their fish directly to canneries. There is currently no port sampling or observer programme in the Northern Marianas.

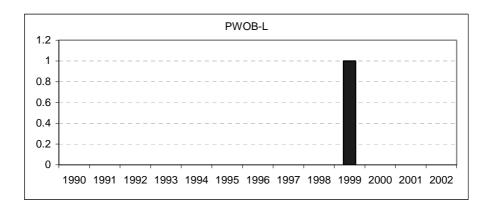


Palau

Port sampling – The Palau Maritime Agency currently has a well-supervised port-sampling programme that provides high-quality quality data to SPC on a monthly basis. The vessels being sampled are mainly Taiwanese, mainland Chinese and smaller Japanese longliners.



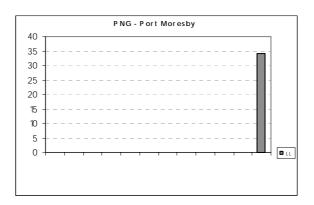
Observers – Palau, along with Kiribati, was one of the first countries in the region to hold an FFA/SPC national observer training workshop. However, only two trips have been carried out, under SPC supervision.

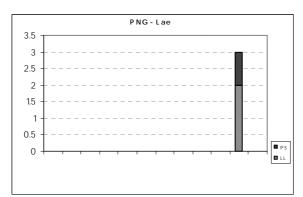


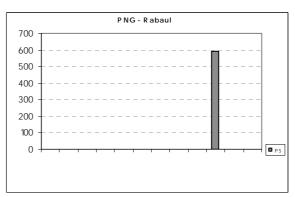
In 2002, Palau were planning to re-establish an observer programme and have asked FFA for further observer training assistance in 2003.

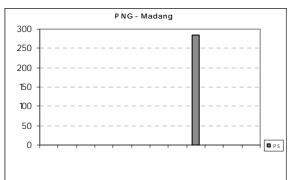
Papua New Guinea

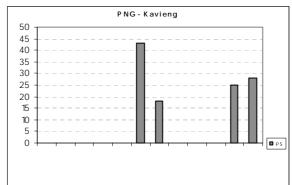
Port sampling – Port sampling in Papua New Guinea is carried out in Port Moresby (longliners), Lae (longliners and purse seiners), and Rabaul, Madang, Kavieng and Wewak (purse seiners). Sampling was also carried out in Manus during a brief intensive period of purse seine transhipments that began and ended during 1996. Trained observers, working on a piecework basis for the National Fisheries Authority, carry out most of the port sampling and are usually supervised by Provincial fisheries offices. The involvement of both the Provincial offices and the National Fisheries Authority has led to problems in maintaining data collection and data quality, but these problems are being resolved. Prior to 2000 port sampling activity was concentrated on purse seine caught fish brought to port by carrier vessels that operated in PNG's mothership operations that are unique to the region. With a change in policy to have observers placed on 100% of catcher vessels operating in this fishery this port sampling activity ceased.

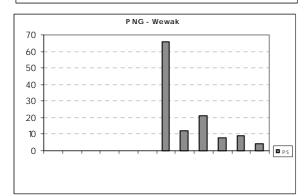


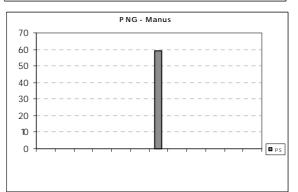


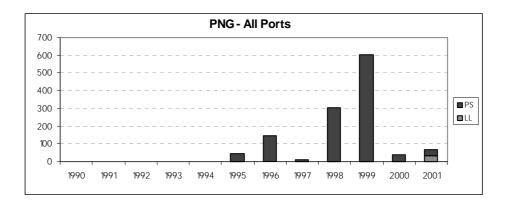






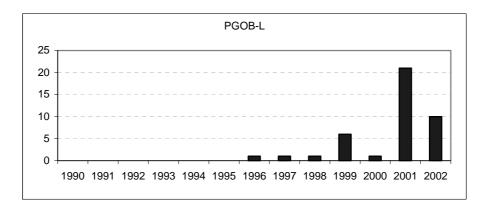


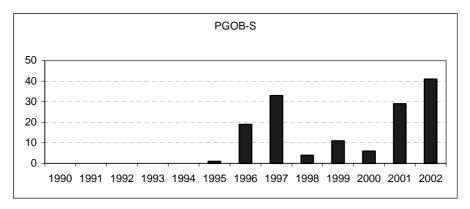




In 2002 port sampling in Rabaul expanded to cover the tuna and shark longliners that tranship there. In 2003 it is planned to establish sampling in Alotau where longliners currently unload and to expand sampling in Kavieng to cater for a newly developing longline industry.

Observers – The PNG Observer Programme is the largest and best-supported observer programme among the Pacific Island countries. It has recently been restructured as part of a comprehensive review of the National Fisheries Authority. Forty-four active observers are based through ten ports around the country. The Observer Manager and a Deputy Observer Manager, the latter funded through SPC, are based in Port Moresby. The most experienced observers have been trained as senior observers, which further support placements, debriefings and data quality control. Observers work in all tuna fisheries, but can also be utilised in the prawn trawl fishery and in other trial fishing operations. Coverage targets are 100% of purse seiners fishing into mothership operations; 20% of all other purse seiners; 5% of all longliners, 20% of prawn trawl fisheries and 100% of all trial fisheries operations. Although the number of available observers is not yet sufficient the programme has been coming close to achieving these coverage rates.





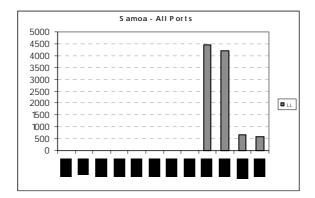
In 2002, the Observer Programme recruited a new Deputy Observer Manager and concentrated on improving data handling processes, mainly with its senior observers. Fifteen new observers were trained and plans have been made to train 30 additional observers and to train senior observers in debriefing techniques. The programme's goal is to have a complement of 80 active observers.

Pitcairn

One SPC sponsored observer trip was undertaken in 1994 on a vessel charged with conducting a fisheries resource survey that looked very briefly at tuna resources. Otherwise, there are no tuna fisheries port sampling or observer programmes in Pitcairn.

Samoa

Port sampling – The Ministry of Agriculture, Forests, Fisheries and Meteorology (MAFFM) has been carrying out SPC-funded port sampling since 1998. At first, nearly all Fisheries Division staff were employed in an effort to get maximum coverage of the rapidly growing alia fleet. As the fleet changed in structure the sampling programme has been modified.

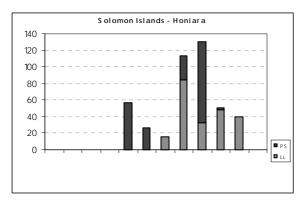


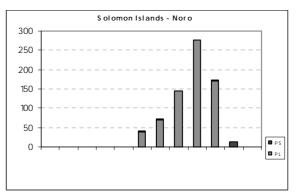
In 2002, one MAFFM staff coordinated the activities of two samplers. Up to 50% of landings are sampled.

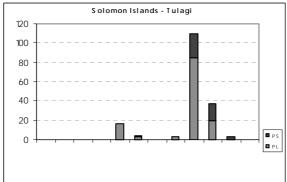
Observers – There is no observer programme planned for Samoa. Samoans have attended regional observer training and have been employed in the US Treaty Observer Programme, but none are currently available. Samoa will be invited to participate in a regional observer training workshop in 2003. Several observer trips have been carried out on the Samoan alia fleet by SPC observers.

Solomon Islands

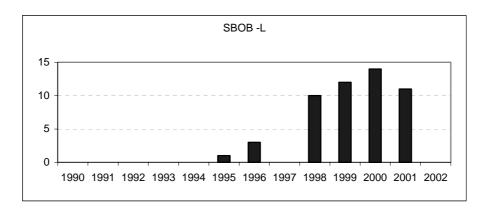
Port sampling – The political upheaval of the past two years brought about a collapse of the fishing industry and the Fisheries Division's SPC-funded port sampling programme subsequently ceased operating. Fishing is now picking up again and there is a need to establish sampling programmes in Honiara (longliners) and Noro (pole-and-liners and purse-seiners). Previously, two full-time port samplers operated in each of these ports and two also operated in the port of Tulagi. Operations are unlikely to restart in Tulagi, as damage caused during the unrest was substantial and irreparable.

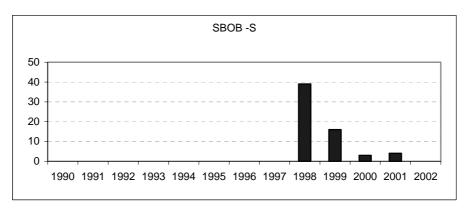


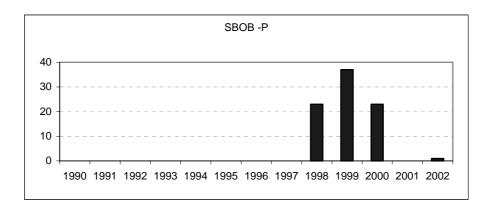




Observers – As with the port sampling programme, observer activity stopped during the political unrest. However, observer activity picked up markedly once the troubles subsided. The Solomon Islands Observer Programme has 12 observers, an Observer Coordinator and an Assistant Observer Coordinator. In contrast to most other observer programmes in the region, the SIOB concentrates on domestic vessels and is not covering the Japanese and Taiwanese vessels, nor the shark longline vessels.



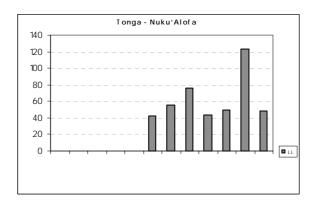




The 2002 coverage rates were 20% for longliners and 20% for pole-and-line vessels. A plan has been proposed to increase this to 30% of longliners, 40% of pole-and-liners and 100% of purse seiners in 2003. The increased coverage will require the training of ten new observers.

Tonga

Port sampling – The Ministry of Fisheries, utilising EC funds administered by SPC, employs two port samplers who attempt to sample from all longliners that unload in Tonga.



Observers – Although there is no observer programme, occasional observer trips, funded by SPC, are taken by port samplers who have attended regional observer training and been employed in the US Treaty Observer Programme.

Tokelau

There are no port sampling or observer programmes in Tokelau, but, in the past, observers from Tokelau have attended regional observer training courses and worked in the US Treaty Observer Programme. No observers are currently available, but Tokelau will be invited to attend a regional observer training workshop in 2003.

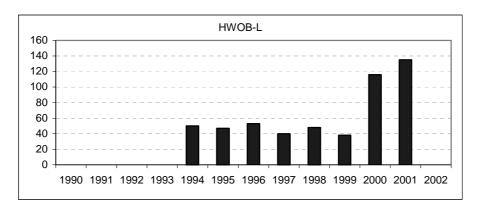
Tuvalu

There are no port sampling or observer programmes in Tuvalu, but there are observers from Tuvalu that have attended regional observer training courses and worked in the US Treaty Observer Programme. Tuvalu is considering establishing an observer programme, but may need to modify the relevant provisions in access agreements with foreign fleets.

United States of America, Hawaii

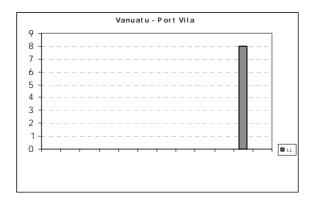
Port sampling – There is no on-shore sampling of tuna catches in Hawaii. The fish auction (United Fishing Agency) provides the NMFS with piece counts, weights and prices for 100% of the fish that they handle. No other biological information is collected on a regular basis.

Observers – There has been an observer programme in Hawaii since 1996, but coverage levels increased considerably in 2000 in response to environmental concerns, principally regarding turtle mortality in the swordfish fishery. NMFS manages the programme and trains and certifies observers, but uses private observer service providers to employ contracted observers. The government has mandated 20% overall coverage, when averaged through the year, and, at times, coverage has been as high as 40%.



Vanuatu

Port sampling – Except for a brief period that Taiwanese longliners visited Port Vila at the start of a new access agreement in 2000 and during which SPC trained and supervised Vanuatu Fisheries staff in port sampling techniques, there has been no port sampling programme in Vanuatu.

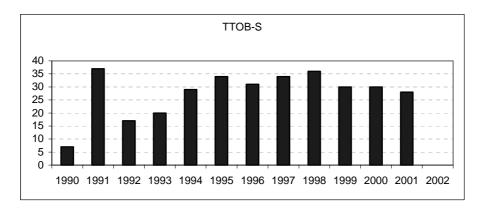


Observers – There is no observer programme in Vanuatu but observers from Vanuatu have attended regional observer training courses and worked in the US Treaty Observer Programme. Vanuatu is considering establishing a national observer programme.

US Treaty

Port sampling – Two NMFS staff in Pago Pago, American Samoa have conducted sampling under the US Treaty. The samplers attempt to sample 100% of the United States purse seiners unloading there. The sampling strategy is to sample from a minimum of one set type per month per sampling area per vessel.

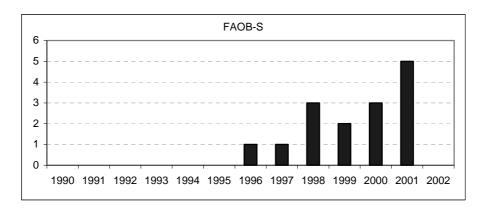
Observers – The US Treaty Observer Programme began in 1988 and nearly 400 observer trips on United States purse seiners have been taken. The target coverage level is 20% of all vessel trips. This target has been exceeded in several years.



In 2002, the trend for the number of vessels in the United States fleet to decrease has continued. From a high of 48 purse seiners, there are now just 25. The number of observer trips on these vessels is therefore decreasing.

FSM Arrangement

The FSM Arrangement has been in effect since 1996. The Arrangement allows for access of fishing vessels registered in member countries to fish in the waters of other member countries. Currently, only purse seiners operate under the Arrangement. FFA administers the Arrangement and manages the observer programme. Target observer coverage is 20%. Observers are trained to the same standard as the US Treaty observers. The programme is expected to increase as more vessels fish under the Arrangement.

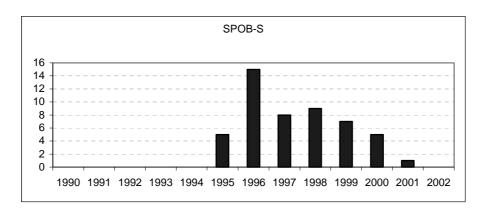


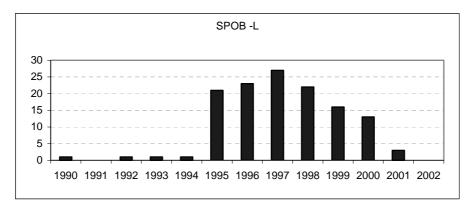
SPC Oceanic Fisheries Programme

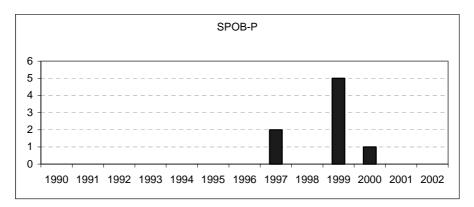
Port sampling – The OFP has funded port-sampling programmes throughout the region since the mid 1980s, either through direct contracts with port samplers or through providing funds to fisheries divisions in various member states so that they could employ samplers. It currently funds sampling in Fiji, Kiribati, New Caledonia, Samoa and Tonga and continues to provide indirect support in varying levels to most of its other member states.

Observers – The OFP has funded occasional observer trips since the early 1980s. In 1995, the South Pacific Regional Tuna Resource Assessment and Monitoring Project (SPRTRAMP) was established within the OFP, with funding for the Port Sampling and Observer Co-ordinator, four full-time observers and five contracted observers. The SPC observers collected baseline data on

every fleet operating in the region (except the Australian longline fleet). In 2000, SPRTRAMP came to an end, after the observers had taken 130 longline trips, 52 purse seine trips and 8 pole-and-line trips.







In 2002, the OFP enhanced its technical support for national port sampling programmes and observer programmes with the appointment of a Port Sampler and Observer Trainer and a Port Sampler and Observer Coordinator, in addition to the Fisheries Monitoring Supervisor. This team will provide training in conjunction with FFA, management support and assistance with data quality control. The emphasis for 2002 and 2003 is on the production of tools to improve feedback to observers and to improve data quality control. Training new observers will remain an important activity, in order to meet the increasing demand for observer data, but refresher training of experienced observers will become more important.

APPENDIX 6. SOUTH PACIFIC REGIONAL LOGSHEETS AND LOGBOOK

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

REV: SPC/FFA DEC 1996

SOUTH PACIFIC REGIONAL LONGLINE LOGSHEET

PAGE	OF

NAME OF VESSEL		FISHING PERMIT OR LICENCE NUMBER(S)	YEAR	
NAME OF FISHING COMPANY	FFA REGIONAL REGISTER NUMBER	NAME OF AGENT IN PORT OF UNLOADING	PORT OF DEPARTURE	DATE AND TIME OF DEPARTURE
COUNTRY OF REGISTRATION	FFA TYPE APPROVED ALC (Y/N) ?		PORT OF UNLOADING	DATE AND TIME OF ARRIVAL IN PORT
		 ALL DATES AND TIMES MUST BE UTC / GMT 		
REGISTRATION NUMBER IN COUNTRY OF REGISTRATION	INTERNATIONAL RADIO CALLSIGN	ALL WEIGHTS MUST BE KILOGRAMS	PRIMARY TARGET SPECIES	NUMBER OF HOOKS BETWEEN FLOATS

MONTH	DAY	ACTIVITY	01:00 UTC	OR	SET POSITIO	ON	SET	NUMBER		ALBACORE			BIGEYE		YE	ELLOWFIN		SHARK		RIPED ARLIN		LUE .RLIN		ACK ARLIN	SWO	RDFISH	OTHER SP	ECIES	
		CODE	LATITUDE DDMM	N S	LONGITUDE DDDMM	E	START TIME	OF HOOKS	No RET	KG RET	No DISC	No RET	KG RET	No DISC	No RET	KG RET	No DISC	No No RET DISC	No RET	KG RET	No RET	KG RET	No RET	KG RET	No RET	KG RET	NAME	No RET	KG RET
	CTIVIT	Y CODES						GE TOTAL																					
	A SE	Т			OR TRANSIT		TF	RIP TOTAL																					

- 2 A DAY AT SEA BUT NOT FISHED OR TRANSIT
 - 3 TRANSIT
 - 4 IN PORT PLEASE SPECIFY

SIGNATURE OF CAPTAIN

DATE

SOUTH PACIFIC 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 Regional 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>FFA Type Approved ALC (Y/N)</u>?: Print "Y" if the vessel has an FFA Type Approved Automatic Location Communicator (ALC) onboard. Print "N" if the vessel does not have an FFA Type Approved ALC onboard.

<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.

Name of Agent in Port of Unloading: 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>Year</u>: Print the year in which the vessel departed from port at the start of the trip.

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

<u>Primary Target species</u>: 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 or transit') 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. 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.

<u>Number of Hooks</u>: 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 *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>, <u>Black 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.

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

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NAME OF FISHING COMPANY

COUNTRY OF REGISTRATION

REGISTRATION NUMBER IN COUNTRY OF REGISTRATION

3 NO FISHING - TRANSIT

4 NO FISHING - BREAKDOWN 5 NO FISHING - BAD WEATHER

NAME OF VESSEL

• ALL WEIGHTS MUST BE METRIC TONNES

INTERNATIONAL RADIO CALLSIGN

NAME OF CAPTAIN

SOUTH PA	CIFIC REGIONAL POLE-AND-LINE LOGSHE	ET	PAGE OF
	FISHING PERMIT OR LICENCE NUMBER(S)	NUMBER OF CREW	YEAR
REGIONAL REGISTER NUMBER	NAME OF AGENT IN PORT OF UNLOADING	PORT OF DEPARTURE	DATE AND TIME OF DEPARTURE
TYPE APPROVED ALC (Y/N) ?		PORT OF UNLOADING	DATE AND TIME OF ARRIVAL IN PORT
	 ALL DATES AND TIMES MUST BE UTC / GMT 		

SIGNATURE OF CAPTAIN

DATE

			BAIT		01:00 L	JTC POSI	TION	RETAINED CATCH DISCARDS							ARDS		
MONTH	DAY	ACTIVITY	ONBOARD	LATITUDE	N		ONGITUDE	Е	SKIPJACK	YELLOWFIN	BIGEYE	OTHER SPE	CIES	TUNA SPI	ECIES	OTHER SPE	ECIES
		CODE	Y/N	DDMM.MMM	S	DE	DMM.MMM	W	WEIGHT	WEIGHT	WEIGHT	NAME	WEIGHT	NAME	NUMBER	NAME	NUMBER
	ACTIVITY CODES PAGE TOTAL																
		ING OR SEAR					TRIP T	TOTAL									

SOUTH PACIFIC 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").

<u>FFA Regional 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>FFA Type Approved ALC (Y/N) ?</u>: Print "Y" if the vessel has an FFA Type Approved Automatic Location Communicator (ALC) onboard. Print "N" if the vessel does not have an FFA Type Approved ALC onboard.

<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.

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

Year: Print the year in which the vessel departed from port at the start of the trip.

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.

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

Activity Code: 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.

<u>Bait Onboard Y/N</u>: 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 *Retained Catch*, *Other Species*, *Name* and print the amount caught (rounded to the nearest metric tonne) in the column under *Retained Catch*, *Other Species*, *Weight*. 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.

REV: SPC/FFA DEC 2000

SOUTH PACIFIC REGIONAL PURSE-SEINE LOGSHEET

PAGE	OF

NAME OF VESSEL NAME OF FISHING COMPANY FFA REGIONAL REGISTER NUMBER NAME OF AGENT IN PORT OF UNLOADING PORT OF DEPARTURE PORT OF DEPARTURE PORT OF UNLOADING COUNTRY OF REGISTRATION FFA TYPE APPROVED ALC (Y/N)? NUMBER OF FADS USED TENDER VESSELS USED? (Y/N) DATE AND TIME OF DEPARTURE DATE AND TIME OF ARRIVAL IN PORT AMOUNT OF FISH ONBOARD AT START OF TRIP AMOUNT OF FISH ONBOARD AT START OF TRIP AMOUNT OF FISH ONBOARD AT START OF TRIP										
NAME OF FISHING COMPANY FFA REGIONAL REGISTER NUMBER NAME OF AGENT IN PORT OF UNLOADING PORT OF DEPARTURE PORT OF UNLOADING	REGISTRATION NUMBER IN COUNTRY OF REGISTRATION	INTERNATIONAL RADIO CALLSIGN			AMOUNT OF FISH ONBOARD AT START OF TRIP	AMOUNT OF FISH ONBOARD AFTER UNLOADING				
	COUNTRY OF REGISTRATION	FFA TYPE APPROVED ALC (Y/N) ?	NUMBER OF FADS USED	TENDER VESSELS USED? (Y/N)	DATE AND TIME OF DEPARTURE	DATE AND TIME OF ARRIVAL IN PORT				
NAME OF VESSEL FISHING PERMIT OR LICENCE NUMBER(S) YEAR	NAME OF FISHING COMPANY	FFA REGIONAL REGISTER NUMBER	NAME OF AGENT IN PORT OF UNLOADING	3	PORT OF DEPARTURE	PORT OF UNLOADING				
	NAME OF VESSEL		FISHING PERMIT OR LICENCE NUMBER(HING PERMIT OR LICENCE NUMBER(S)						

			01:00 UT	C OR	SET POSITION		SCHOOL	SET			RETAINE	D CATCH					DIS	CARDS		
MONTH	DAY	ACTIVITY	LATITUDE	N	LONGITUDE	Е	ASSOC	START	SKIPJACK	YELLOWFIN	BIGEYE	OTHER SP	ECIES	WELL	TUN	IA SPECIES		ОТ	THER SPECIES	
		CODE	DDMM.MMM	s	DDDMM.MMM	w	CODE	TIME	WEIGHT	WEIGHT	WEIGHT	NAME	WEIGHT	NUMBERS	NAME	WEIGHT	CODE	NAME	NUMBER	WEIGHT
							L													
ACTIV	ACTIVITY CODES SCHOOL ASSOCIATION CODES					P/	AGE TOTAL													
• RECC	RECORD ALL SETS 1 UNASSOCIATED					Т	RIP TOTAL													
			2 FEE	DING	ON BAITFISH															

- IF NO FISHING SET MADE IN A DAY, 3 DRIFTING LOG, DEBRIS OR RECORD THE MAIN ACTIVITY FOR DEAD ANIMAL THAT DAY
- 1 FISHING SET
- 2 SEARCHING
- 3 TRANSIT
- 4 NO FISHING BREAKDOWN
- 5 NO FISHING BAD WEATHER TUNA DISCARD CODES
- 6 IN PORT PLEASE SPECIFY
- 7 NET CLEANING SET
- 10 DEPLOYING OR RETREIVING 3 VESSEL FULLY LOADED RAFTS, FADS OR PAYAOS

- 4 DRIFTING RAFT, FAD OR PAYAO
- 5 ANCHORED RAFT, FAD OR PAYAO
- 6 LIVE WHALE
- 7 LIVE WHALE SHARK
- 8 OTHER

- 1 FISH TOO SMALL
- 2 FISH DAMAGED
- 4 OTHER REASON

	UNLOADINGS TO CANNERY, COLD STORAGE, CARRIER OR OTHER VESSEL													
START DATE	END DATE	CANNERYORVESSEL AND DESTINATION	INTERNATIONAL RADIO CALL SIGN	SKIPJACK	YELLOWFIN	BIGEYE	MIXED							

NAME OF CAPTAIN	SIGNATURE OF CAPTAIN	DATE

SOUTH PACIFIC 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").

FFA Regional Register Number: Print the number issued by the Forum Fisheries Agency for inclusion of the vessel on the FFA Regional Register (e.g. "12345").

<u>FFA Type Approved ALC (Y/N) ?</u>: Print "Y" if the vessel has an FFA Type Approved Automatic Location Communicator (ALC) onboard. Print "N" if the vessel does not have an FFA Type Approved ALC onboard.

<u>Fishing Permit or License 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 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>Number of FADs Used</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 only, regardless of the number of times an individual FAD may have been investigated.

Year: Print the year in which the vessel departed from port at the start of the trip.

<u>Amount of Fish Onboard at Start of Trip</u>: 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.

<u>Amount of Fish Onboard After Unloading</u>: 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.

Activity Code: 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.

<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 number of fish discarded or the weight of fish discarded, whichever is appropriate.

<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*.

				2002

3 TRANSIT

4 IN PORT - PLEASE SPECIFY

SOUTH PACIFIC REGIONAL SHARK LONGLINE LOGSHEET

PAGE _____ OF ____

	00011	117101110	11201011		011021112	00011221	
NAME OF VESSEL		FISHING PERMIT OR LICE	NCE NUMBER(S)				YEAR
NAME OF FISHING COMPANY	FFA REGIONAL REGISTER NUMBER	LENGTH OF FLOAT LINE	LENGTH OF BRANCHLINE	MAINLINE	BRANCHLINE	PORT OF DEPARTURE	DATE AND TIME OF DEPARTURE
				MONOFILAMENT? (Y/N)	MONOFILAMENT? (Y/N)		
COUNTRY OF REGISTRATION	FFA TYPE APPROVED ALC (Y/N) ?	,				PORT OF UNLOADING	DATE AND TIME OF ARRIVAL IN PORT
		ALL DATE	ES AND TIMES MU	IST BE UTC / GMT			
REGISTRATION NUMBER IN COUNTRY OF REGISTRATION	INTERNATIONAL RADIO CALLSIGN	ALL WEIG	GHTS MUST BE KI	LOGRAMS		PRIMARY TARGET SPECIES	NUMBER OF HOOKS BETWEEN FLOATS

]						_OGRA															
		MONTH	DAY	ACTIVITY	MONTH	DAY	ACTIVITY	MONTH	DAY	ACTIVITY	MONTH	DAY	ACTIVITY	MONTH	DAY	A															
RT SET	LONGITUDE			N/S			N/S			N/S			N/S			Ν															
ITION	LATITUDE			E/W			E/W			E/W			E/W			P															
HAUL	LONGITUDE			N/S E/W			N/S E/W			N/S E/W			N/S E/W			-															
IION	LATITUDE			L/VV			L/VV			L/VV			L/VV																		
	SET START TIME																														
-	NUMBER OF HOOKS SET																														
	CATCH INFORMATION	NO RET	KG RET	NO. DISC	NO RET	KG RET	NO. DISC	NO RET	KG RET	NO. DISC	NO RET	KG RET	NO. DISC	NO RET	KG RET																
	SILKY SHARKS GREY REEF SHARK																														1
ָ	OCEANIC WHITE TIP																														1
	SILVERTIP SHARK																														+
	BLACK TIP SHARK																														+
	HAMMER HEAD SHARK																														+
	BLUE SHARK																														Ť
•	BLACK TIP REEF SHARK																														Ī
	TIGER SHARK GALAPAGOS SHARK																														_
	OTHER SHARKS																														1
	SWORD FISH																														+
)	BLACK MARLIN																														+
	BLUE MARLIN																														+
	STRIPED MARLIN																														1
	SAIL FISH ALBACORE TUNA																														1
	YELLOWFIN TUNA				_		_																								+
	BIGEYE TUNA																														+
	OTHERS FISH																														+
	IVITY CODES A SET				<u> </u>		<u> </u>			I	NAME	OF CA	PTAIN				SIGNAT	URE OF	CAPTAIN	L N	<u> </u>							DATE			_

REV: SPC/FFA DEC 2002

SOUTH PACIFIC REGIONAL HANDLINE LOGSHEET

PAGE	ΟF	
	 \circ	

NAME OF VESSEL		FISHING PERMIT OR LICENCE NUMBER(S)		YEAR
NAME OF FISHING COMPANY	FFA REGIONAL REGISTER NUMBER	NAME OF AGENT IN PORT OF UNLOADING	PORT OF DEPARTURE	DATE AND TIME OF DEPARTURE
COUNTRY OF REGISTRATION	FFA TYPE APPROVED ALC (Y/N) ?	ALL DATES AND TIMES MUST BE UTC / GMT	PORT OF UNLOADING	DATE AND TIME OF ARRIVAL IN PORT
REGISTRATION NUMBER IN COUNTRY OF REGISTRATION	INTERNATIONAL RADIO CALLSIGN	ALL WEIGHTS MUST BE KILOGRAMS	PRIMARY TARGET SPECIES	RANGE IN LENGTH OF HANDLINES (METRES)

MONTH	DAY	ACTIVITY	01:00 UTC (OR F	ISHING POSITIO	ON	START	END	NUMBER		IGEYE		YELI	_OWFI	N	SKI	PJACK		SH	IARK	STRI MAR		BLU MARI		BLA: MAR		SWOF	RDFISH	OTHER	SPECIE	S
		CODE			LONGITUDE			FISHING	OF	No	KG	No	No	KG		No	KG			No	No	KG	No	KG	No	KG	No	KG		No	KG
			DDMM.MMM	S	DDDMM.MMM	W	TIME	TIME	HOOKS	RET	RET	DISC	RET	RET	DISC	RET	RET	DISC	RET	DISC	RET	RET	RET	RET	RET	RET	RET	RET	NAME	RET	RET
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						\vdash													\vdash												\vdash
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						\vdash																									
		CODES							SE TOTAL																						
			INITY OF A FAL		G IITY OF A FAD/LO	00)		TR	IP TOTAL																						

- 2 FISHING TROLLING (NOT IN THE VICINITY OF A FAD/LOG)
- 3 FISHING, BUT NOT ON A FAD/LOG OR TROLLING, PLEASE SPECIFY
- 4 A DAY AT SEA BUT NOT FISHED AND NOT IN TRANSIT
- 5 TRANSIT
- 6 IN PORT PLEASE SPECIFY

NAME OF CAPTAIN

SIGNATURE OF CAPTAIN

DATE

SOUTH PACIFIC REGIONAL HANDLINE 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").

<u>FFA Regional 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>FFA Type Approved ALC (Y/N)</u>?: Print "Y" if the vessel has an FFA Type Approved Automatic Location Communicator (ALC) on-board. Print "N" if the vessel does not have an FFA Type Approved ALC onboard.

<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.

Year: Print the year in which the vessel departed from port at the start of the trip.

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 or transit') 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. 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') 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").

Start and End Fishing Times: 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.

<u>Bigeye</u>, <u>Yellowfin</u> and <u>Skipjack</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>, <u>Black 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.

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.

SOUTH PACIFIC REGIONAL DAILY FAD FISHING LOGSHEET

Location/Port:		Da	ite: l	DD	/M]	M/Y	ΥΫ́	ΥY		Fis	hin	g aı	rea	and	FA	\Ds:	:	Во	at,	Ski	ppe	r ar	nd C	Crev	v:	
Departure Time:		Re	turn	ı Ti	me	:				Fue	el a	nd .	Am	oun	nt:											
Time of Day (local t	time)		01 02																							Total
Engine Hours																										
Trolling Inshore FA	Ds																									
Trolling Offshore F.	ADs																									
Trolling Open Wate	r																									
Vertical Longline (V	/LL)																									
Drop-Stone			П																							
Palu-Ahi			П																							
Single Hook Drift L	ine		П																							
Jigging			П																							
Tuna-Hole Fishing																										
Other																										
Catch by Number			П																							
Catch by Weight (kg	g)							П																П		
Weather	-					_	Ba	it T	ypε	e: A	mo	unt	(kg	() 01	r					Fisl	ning	g Ef	for	t		
Wind							Pie	eces	Us	sed						No	. of	Tr	olli	ng l	Line	es				
Sea							İ											·VI					S			
Current or tid							ľ									No	. of	Ot	her	Lin	ies :	and	Но	oks	3	
Moon phase							ľ									Tie	d to	o F	AD	?						
-			7	Γro	llin	g C	atcl	h						Ca	atch	ı by	Ot	her	Me	tho	ds				To	otal
Species	Inshor	e F							pen	wat	er		V]	LL				-sto			her:					
	No	K	ζg	N	lo	K	(g	N	lo	K	g	N	lo	K	g	N	0	K	g	N	o	K	g	N	lo	Kg
Yellowfin Tuna		_						<u> </u>																<u> </u>		
Albacore Tuna		╙		<u> </u>				<u> </u>																L		
Bigeye Tuna		╙		<u> </u>				<u> </u>																L		
Skipjack Tuna		L		<u> </u>				<u> </u>																<u> </u>		
Rainbow Runner		L		Щ				<u> </u>																<u> </u>		
Wahoo		L		Щ				<u> </u>																<u> </u>		
Mahi Mahi		L		Щ				<u> </u>																<u> </u>		
Barracuda		L		<u> </u>				<u> </u>																<u> </u>		
Marlin		L		<u> </u>				<u> </u>																<u> </u>		
Sailfish		L		<u> </u>				<u> </u>																<u> </u>		
Shark		L		<u> </u>				<u> </u>																<u> </u>		
Opelu		L		<u> </u>				<u> </u>																<u> </u>		
Atule		L		<u> </u>				$ldsymbol{ldsymbol{ldsymbol{eta}}}$																<u> </u>		
Triggerfish		L		<u> </u>				$ldsymbol{ldsymbol{ldsymbol{ldsymbol{eta}}}$																<u> </u>		
Other		L		<u> </u>				$ldsymbol{ldsymbol{ldsymbol{ldsymbol{eta}}}$																<u> </u>		
Other		L		<u> </u>				$ldsymbol{ldsymbol{ldsymbol{ldsymbol{eta}}}$																<u> </u>		
TOTAL				<u>L</u>				<u> </u>																<u> </u>		İ
Comments																		Dep	pth ·	of C	Catcl	h (V	'LL	'dro	p-st	cone)

SOUTH PACIFIC REGIONAL DAILY FAD FISHING LOGSHEET INSTRUCTIONS

Location/Port:		Da	ate: l	DD.	/M	M/\	ζY	ΥY		Fis	hin	g A	rea	and	1 F	ADs	3:	Bo	at, S	Skij	ppe	r ar	nd C	rev	v:	
Fishersville			1()/	27	7/1	90	8			FS	D	No	. 7	,				Joh	in	Jor	res	(ski	ppe	r)	
Departure Time:		Re	turn	ı Ti	me	:	_	_	_	Fu	el aı	nd A	Am	oun	ıt:	_	_		Jeff				` '	' /	,	
0530					1	180)()				stro		es o	¥ ^ 	, — 							s tche	た <u></u>			
Time of Day (local	time)		01 02																							Total
Engine Hours							/✔		√	✓/							✓	√	\checkmark							6.0
Trolling Inshore FA	.Ds						/√	\neg	П							\Box		\sqcap	✓			\Box				1.5
Trolling Offshore F.	ADs		\Box		П			✓	$\checkmark/$	</td <td></td> <td></td> <td></td> <td></td> <td></td> <td>П</td> <td>✓</td> <td>\sqcap</td> <td>\Box</td> <td></td> <td></td> <td>\square</td> <td></td> <td></td> <td>\Box</td> <td>3.0</td>						П	✓	\sqcap	\Box			\square			\Box	3.0
Trolling Open Wate	r		\Box		П	\Box		П	/✓							П	\Box	√	\Box			П			\Box	1.5
Vertical Longline (V	VLL)		\Box		П	\Box	П	П		/✔	✓	✓	✓	✓	✓	✓	\Box	一	\Box		П	\sqcap	П	\Box		6.5
Drop-Stone			Ħ		П	П	П	\sqcap	П		✓	✓	✓	✓	✓	✓	\Box	一	\neg			\square	П	\exists	\Box	6.0
Palu-Ahi			\Box		П	\Box	П	П	П							П	\Box	П	\Box		П	\square	\Box			
Single Hook Drift L	ine		\Box		П	\Box	П	П	П		П					П	\Box	一	\Box			П	П	\Box		
Jigging			\Box		П	口	П	П	П		П	✓	√	✓		П	\sqcap	\sqcap	\Box			П	П	\Box		3.0
Tuna-Hole Fishing			一、		_	_	<u></u>			_	_	_					_	_			<u> </u>			_	7	
Other		一]	X.	A	\mathbf{N}	11	Z	ال	T	L	N)(الر	5	H	E	E	1	` (U	N	L	١,	\Box	
Catch by Number		一	\Box		П		3	5	3		1	12	21	11	2	-	3	-	1					\neg	П	62.0
Catch by Weight (kg	g)	┢	\Box	П	Н	\vdash	7	12			15	35			45	П	11	\sqcap	2.5		П	H		\exists	\sqcap	167.5
Weather Fine and	_				ш	Ч	Ba	it T	урє	: A	mo	unt	(kg) 01		М		_		Fisl	hinş	Ξ Ef	fort			
	knots NE							eces					` -	,		No	. of	Tro					3			
Sea Slight	-	_				\dashv	Ī		Opel														2 x	20	hoc	ks
Current or tid0.5 kn	to South	h,			—	\dashv			Stul																	1 jig)
Current de de de de de de de de de de de de de	00					,	i		/400.	,,,							• -	-		_				O	<u>'</u>	171
Moon phase Last que	inter						1									Tie	d to	ο FA	٩Dʻ	?		Ues				
Moon phase Last qua	ırter			Γro]	llin	g C	atch	<u> </u>						Ca	atch			o FA			ds	Yes	$\overline{}$		То	tal
v		e F				g Ca			nen en	wa	ter		VI		atch	ı by	Otl	her	Me	tho		U			То	tal
Moon phase Last que Species	Inshor		ĀD	ffs	sho	re F	FAI	ΟĮ				N		LL		by Dr	Otl	her -sto	Me ne	tho Otl	her:	: Jigg	ing			
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Species	Inshor		ĀD	ffs	sho: Vo	re F	FAI Kg	ΟĮ						LL K	g	by Dr N	Otl rop-	her -sto K	Me ne	tho Otl	her:	: Jigg	ing		Io	Kg
Species Yellowfin Tuna	Inshor		ĀD	ffs	sho: Vo	re F	FAI Kg	ΟĮ					10	LL K 17	(g 7.0	by Dr N	Otl rop-	her -sto K	Me ne	tho Otl	her:	: Jigg	ing	Ę	lo 5	Kg 56.0
Species Yellowfin Tuna Albacore Tuna	Inshor	k	ĀD	ffs N	sho: Vo	re F K 8.	FAI Kg	ΟĮ					10	LL K 17	(g 7.0	by Dr N	Otl rop-	her -sto K	Me ne	tho Otl	her:	: Jigg	ing	r c	Io 5 2	Kg 56.0
Species Yellowfin Tuna Albacore Tuna Bigeye Tuna	Inshor	4	FAD Kg	ffs N	Sho No 2	re F K 8.	FAI (g .0	ΟĮ					10	LL K 17	(g 7.0	by Dr N	Otl rop-	her -sto K	Me ne	tho Otl	her:	: Jigg	ing	1	10 5 2 1	Kg 56.0 34.0 27.0
Species Yellowfin Tuna Albacore Tuna Bigeye Tuna Skipjack Tuna	Inshor No	4	FAD Kg	ffs N	Sho No 2	re F K 8.	FAI (g .0) O _I		K			10	LL K 17	(g 7.0	by Dr N	Otl rop-	her -sto K	Me ne	tho Otl	her:	: Jigg	ing	1 8	10 5 2 1	Kg 56.0 34.0 27.0 19.5
Species Yellowfin Tuna Albacore Tuna Bigeye Tuna Skipjack Tuna Rainbow Runner	Inshor No	4 2	FAD Kg	ffs N	Sho No 2	8. 8.	FAI (g .0) O _I	lo	12	g		10	LL K 17	(g 7.0	by Dr N	Otl rop-	her -sto K	Me ne	tho Otl	her:	: Jigg	ing	£ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £	10 5 2 1 3	Kg 56.0 34.0 27.0 19.5
Species Yellowfin Tuna Albacore Tuna Bigeye Tuna Skipjack Tuna Rainbow Runner Wahoo Mahi Mahi	Inshor No	4 2	(g 1.5	ffs N	Short No 2	8. 8.	Sg .0) O _I	No	12	S .0		10	LL K 17	(g 7.0	by Dr N	Otl rop-	her -sto K	Me ne	tho Otl	her:	: Jigg	ing	£ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £	10 5 2 1 8 1	Kg 56.0 34.0 27.0 19.5 2.5
Species Yellowfin Tuna Albacore Tuna Bigeye Tuna Skipjack Tuna Rainbow Runner Wahoo Mahi Mahi Barracuda	Inshor No	4 2	(g 1.5	ffs N	Short No 2	8. 8.	Sg .0) O _I	No	12	S .0		10	LL K 17	(g 7.0	by Dr N	Otl rop-	her -sto K	Me ne	tho Otl	her:	: Jigg	ing	£ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £	10 5 2 1 8 1	Kg 56.0 34.0 27.0 19.5 2.5
Species Yellowfin Tuna Albacore Tuna Bigeye Tuna Skipjack Tuna Rainbow Runner Wahoo Mahi Mahi Barracuda Marlin	Inshor No	4 2	(g 1.5	ffs N	Short No 2	8. 8.	Sg .0) O _I	No	12	S .0		10	LL K 17	(g 7.0	by Dr N	Otl rop-	her -sto K	Me ne	tho Otl	her:	: Jigg	ing	£ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £	10 5 2 1 8 1	Kg 56.0 34.0 27.0 19.5 2.5
Species Yellowfin Tuna Albacore Tuna Bigeye Tuna Skipjack Tuna Rainbow Runner Wahoo Mahi Mahi Barracuda Marlin Sailfish	Inshor No	4 2	(g 1.5	ffs N	Short No 2	8. 8.	Sg .0) O _I	No	12	S .0		10	LL K 17	(g 7.0	by Dr N	Otl rop-	her -sto K	Me ne	tho Otl	her:	: Jigg	ing	£ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £	10 5 2 1 8 1	Kg 56.0 34.0 27.0 19.5 2.5
Species Yellowfin Tuna Albacore Tuna Bigeye Tuna Skipjack Tuna Rainbow Runner Wahoo Mahi Mahi Barracuda Marlin Sailfish Shark	Inshor No	4 2	(g 1.5	ffs N	Short No 2	8. 8.	Sg .0) O _I	No	12	S .0		10	LL K 17	(g 7.0	by Dr N	Otl rop-	her -sto K	Me ne	Otl	her:	Figg	ing g	1 1 3	5 2 1 1 3 3 1 1 1 3 3	Kg 56.0 34.0 27.0 19.5 2.5 12.0 8.5
Species Yellowfin Tuna Albacore Tuna Bigeye Tuna Skipjack Tuna Rainbow Runner Wahoo Mahi Mahi Barracuda Marlin Sailfish Shark Opelu	Inshor No	4 2	(g 1.5	ffs N	Short No 2	8. 8.	Sg .0) O _I	No	12	S .0		10	LL K 17	(g 7.0	by Dr N	Otl rop-	her -sto K	Me ne	Otl	her:	Figgs K	ing	£ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £	5 5 2 1 1 1 1 3 5	Kg 56.0 34.0 27.0 19.5 2.5 12.0 8.5
Species Yellowfin Tuna Albacore Tuna Bigeye Tuna Skipjack Tuna Rainbow Runner Wahoo Mahi Mahi Barracuda Marlin Sailfish Shark Opelu Atule	Inshor No	4 2	(g 1.5	ffs N	Short No 2	8. 8.	Sg .0) O _I	No	12	S .0		10	LL K 17	(g 7.0	by Dr N	Otl rop-	her -sto K	Me ne	Otl	her: No	Figgs K	(g	1 1 3	5 5 2 1 1 1 1 3 5	Kg 56.0 34.0 27.0 19.5 2.5 12.0 8.5
Species Yellowfin Tuna Albacore Tuna Bigeye Tuna Skipjack Tuna Rainbow Runner Wahoo Mahi Mahi Barracuda Marlin Sailfish Shark Opelu Atule Triggerfish	Inshor No	4 2	(g 1.5	ffs N	Short No 2	8. 8.	Sg .0) O _I	No	12	S .0		10	LL K 17	(g 7.0	by Dr N	Otl rop-	her -sto K	Me ne	Otl	her:	Figgs K	(g	1 1 3	5 5 2 1 1 1 1 3 5	Kg 56.0 34.0 27.0 19.5 2.5 12.0 8.5
Species Yellowfin Tuna Albacore Tuna Bigeye Tuna Skipjack Tuna Rainbow Runner Wahoo Mahi Mahi Barracuda Marlin Sailfish Shark Opelu Atule Triggerfish Other	Inshor No	4 2	(g 1.5	ffs N	Short No 2	8. 8.	Sg .0) O _I	No	12	S .0		10	LL K 17	(g 7.0	by Dr N	Otl rop-	her -sto K	Me ne	Otl	her:	Figgs K	(g	1 1 3	5 5 2 1 1 1 1 3 5	Kg 56.0 34.0 27.0 19.5 2.5 12.0 8.5
Species Yellowfin Tuna Albacore Tuna Bigeye Tuna Skipjack Tuna Rainbow Runner Wahoo Mahi Mahi Barracuda Marlin Sailfish Shark Opelu Atule Triggerfish Other	Inshor No 2 1	22	ξAD ζg 2.5	ffs N	No 2 6 1	15 3.	FAI (Sg)	N	1 1	122 3	2.0 .0		10 1 2 1	LL K 177 34 27	7.0 7.0 7.0	Dr N	Otl	her ston	Me ne g .0	Otl N	her: 10		ing (g	1 1 3	10 5 22 1 1 1 1 1 1 3 3	Kg 56.0 34.0 27.0 19.5 2.5 12.0 8.5
Species Yellowfin Tuna Albacore Tuna Bigeye Tuna Skipjack Tuna Rainbow Runner Wahoo Mahi Mahi Barracuda Marlin Sailfish Shark Opelu Atule Triggerfish Other	Inshor No	22	(g 1.5	ffs N	Short No 2	15 3.	Sg .0	N	No	122 3	S .0		10	LL K 177 34 27	(g 7.0	Dr N	Otl rop-	her ston	Me ne eg .0	Otl N	552 9		(g	3 3 6	5 5 2 1 1 1 1 3 5 2 7	Kg 56.0 34.0 27.0 19.5 2.5 12.0 8.5

South Pacific Regional Logbook - Trip Details

Revised SPC/FFA Dec 2002.

All dates and times should be in UTC.

Departure Port:														
Reasons for time spent in por	7		ז ·											
nloading Breakdown	Maintena	ance	Bad w	eather/	Trip p	reparati	on H	oliday						
	l DD	ММ	ΥΥ						D D	мм	ΥΥ			
Start of Trip Date:					End	of Tri	p Date:							
		To a			l Details	3	lv.							
Vessel Name		Vessel	Captain				Vessel	Owner						
Flag Country Registratio	n No.	<u>!</u>		Fishing	Permit or Lic	cence Nur	mbers		Int	ternational	Radio Ca	II Sign		
Vessel Length Overall (m)			Circle	to indi	cate if onb	oard	Yes	No		Main	<u>ine</u>			
Fish Hold Capacity (m ³)			GPS B	Beacon			Y	N	Mater	ial				
			Doppl	er Curr	ent Meter		Υ	N	Length	(nm)				
Tick to indicate your storage method Sea surface temp. gauge - SST Y N														
e Satellite sea surface images Y N Floatline														
Refrigerated sea water														
Air freezer			Line s	hooter			Y	N	<u>!</u>	Brancl	<u>nline</u>			
			Auton	natic ba	ait thrower		Y	N	Length	(m)				
Vessel Monitoring system onboa	rd	Y N	Autom	atic bra	nchline atta	cher	Y	N	Shark v	wire	Υ	N		
Type of system			Bait cl	hute			Υ	N						
l Dogottord Togge l	_				o the organisa		_							
Date recovered: dd/mm/yy	re, an approx Tag Nui		ht or leng	gth for th	ne fish, along v Spe	vith your no cies Name	ame and your	vesse∣'s r	Approx. leng					
Whale Sightings: Record wha	le sighting ai	nd whale i	interation	s to help	increase the	amount o	f knowledge	we have	on this prob	blem.				
Date Vessel's	activity of the activity of th	(when w	vhale si	ighted)		ecies			s on wha		havio	ur		
Was there an observer o	nboard f	or this	trip?:			ID								
Observer's name :				Obser	rver's Trip	ID numi	oer:							
Other Comments														
								_	<u> </u>	ain's Siar				

South Pacific Regional Logbook - Trip Details

Revised SPC/FFA Dec 2002.

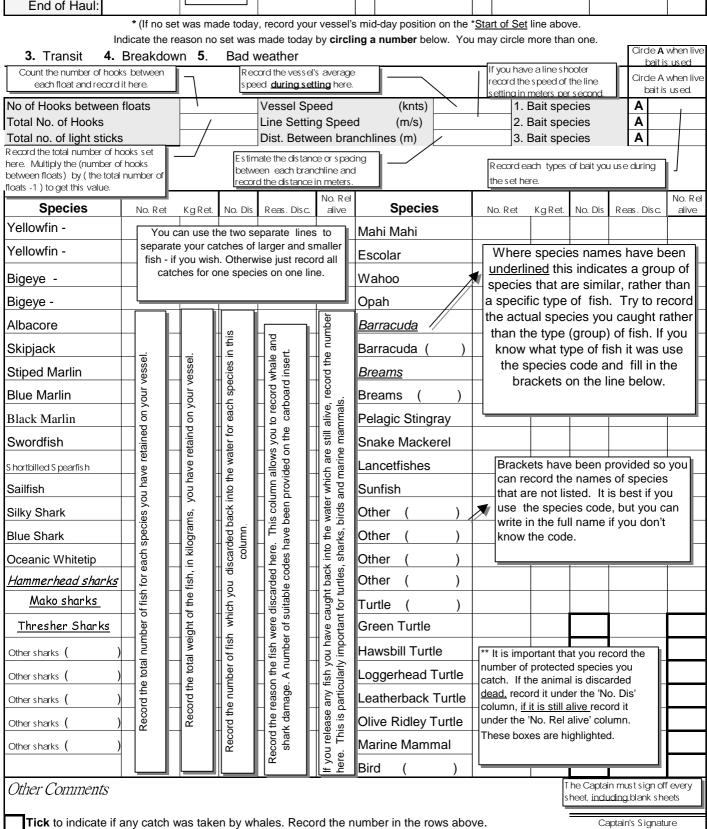
All dates and times should be in UTC.

Departure Port: Suva					
Reasons for time spent in port: Tick all that c	וֹ הַ וֹי ד		. 🗆		
nloading Breakdown Maintenance	Bad weather	Trip preparat	ion Holida	ay	
DD MM	ΥΥ			D D	M M Y Y
Start of Trip Date: 1 9 1 0	0 3	End of Tri	p Date:	2 8	1 0 0 3
	Vessel	Details			
Vessel Name Boat # 1 Vessel	Captain J	oe Bloggs	Vessel Own	_{er} Big I	Fish Company
Flag FJ Country Registration No. 897	Fishing	Permit or Licence Nur	mbers 02 -46	652 <i>4</i> 3	International Radio Call Sign
Vessel Length Overall (m) 20	Circle to indic	cate if onboard	Yes	o	<u>Mainline</u>
Fish Hold Capacity (m ³) 200	GPS Beacon		Y	Mat	terial <i>Monfilament</i>
	Doppler Curr	ent Meter	Y	Lengt	h (nm) 45
Tick to indicate your storage method	Sea surface te	emp. gauge - SST	$ Y\rangle$	1	
lce 🗸	Satellite sea	surface images	Y (1	1)	<u>Floatline</u>
Refrigerated sea water	Tori pole miti	gation device	Y	Leng	th (m) 20
Air freezer	Line shooter		$ Y\rangle$	1	<u>Branchline</u>
	Automatic ba	it thrower	Y (1	Leng	th (m) 10
Vessel Monitoring system onboard YN	Automatic brar	nchline attacher	$\left(\begin{array}{cc} \mathbf{Y} \end{array} \right)$	<u> </u>	k wire Y N
Type of system Trimble	Bait chute		Υ (Ν	1)	
Recovered Tags: Recovered tags should be so capture, an approximate, weight	•	=	=		
Date recovered: dd/mm/yy	ght or length for the	e fish, along with your n Species Name	ame and your vesse		ell as a return mailing add ength or weight in cm or kg.
none recovered.					
Whale Sightings: Record whale sighting and whale		increase the amount o	f knowledge we h	ave on this p	roblem.
Date Vessel's activity (when we do not be made of the weak of the		Species	Rema	arks on w	hale's behaviour
2 3 1 0 0 3 Soak	Transit	False killer (?)	One only.	seen near v	ressel, 100 meters off.
			, , , , ,		
Was there an observer onboard for this	_	_			
Observer's name :	Obser-	ver's Trip ID numl	oer:		
Other Comments					
			:		Joe Bloggs
				Ca	aptain's Signature
Original Copy - Submit to your National Fisheries Department.					

South Pacific Regional Logbook - Daily Form

				Drimo	ryTarget										e in UTC
Daily form nu	ımber: (0000	1		ecies	_	▶ Tuna	а		\supseteq	Swor	dfish		Sha	<u>'k </u>
Set Details	Date dd mm yy	Tir	ne 00 hrs	Latitu dd°mm.r		N S	Long i ddd°mr			E W		Vind ints/dir		Current knts / dir	SST °C
* Start of Set:															
End of Set:															
Start of Haul:															
End of Haul:															
•				day, record yo											
	Breakdow			as made toda weather	y by circ	ling	a number	belo	ow. Y	ou m	iay circle	more tr	nan one.	Cird	e A when liv
No. of Hooks between	floats			Vessel Sp	eed		(knts)			1. E	Bait spe	cies	Α	
Total Number of Hook	S			Line Settin	ng Spee	d	(m/s)				2. E	Bait spe	cies	Α	
Total number of light s	sticks			Dist. Betw	-		, ,					Bait spe		Α	
	Number	Kg.	No.	Reason	No. Rel.	1	(***)				lumber	Kg.	No.	Reason	NoRel
Species	Retained	Ret	Disc.	Dis c.	Alive		Speci	es			etained	Ret	Dis c.	Dis c.	Alive
Yellowfin < 25 kg							hi Mahi								
Yellowfin > 25 kg							colar								
Bigeye < 25 kg							ihoo								
Bigeye > 25 kg						Op									
Albacore							<u>rracuda</u>								_
Skipjack Stipod Marlin							racuda	()						+
Stiped Marlin Blue Marlin							e <u>ams</u> eams (١						+
Black Marlin							agic Stin	ara	<i>)</i>						
Swordfish							ake Mac								+
S hortbilled S pearfish							ncetfishe		<u> </u>						+
Sailfish							nfish								
Bluefin ()						Oth)						
Silky Shark						Oth	,)						
Blue Shark						Oth	,)						
Oceanic Whitetip						Oth	ner ()						
Hammerhead sharks						Tui	tle ()						
<u>Mako sharks</u>						Gre	en Turtl	е							
Thresher Sharks						Ha	wsbill Tu	rtle							
Other sharks (Log	gerhead	ΙTι	ırtle						
Other sharks ()						Lea	atherbac	k Tı	urtle						
Other sharks (ve Ridley	/ Tι	ırtle						
Other sharks ()				<u>L</u> _			<i>l</i> larine ammal ()					<u></u>	
Other sharks (Bi	rd ()						
Other Comments	1		1	1	1				,			i		-	_

South Pacifc Regional Logbook - Daily Form Revised SPC/FFA 2002 **PrimaryTarget** Daily form number: 00001 Swordfish Shark **Species** Tuna Date Longitude Wind SST Time Ν Ε Current Latitude Set Details dd mm yy 00 00 hrsdd°mm mmm ddd°mm.mmm knts /dir W knts/dir °C **Start of Set:** Use the Record your fishing Record the environmental 24hr clock to End of Set: positions here. This is conditions for the set and haul record the time vou mandatory. here. Record as much Start of Haul: started and information as you can. finished the End of Haul:



	South Pacific Regional Logbook - Daily Form														
Revised SPC/FFA 2002				AI	l Dates	and Times	sh	ould b	e lo	cal					
Daily form	number: (0000	1		ryTarget ecies	— > Tur	na		\supset	Swor	dfish			Shark	
Set Details	Date dd mm yy	Tir	ne 10 hrs	Latitu dd°mm.r		N Long	_		E W		Vind ants/dir			rrent ts/dir	SST °C
* Start of Set:	20/10/03		.00	V			VV	8/90					27 C		
End of Set:	20/10/03	11.	.30						8 /90						
Start of Haul:	21/10/03	16	.45							15/SE					
End of Haul:	22/10/03	01.	.00							15	5/SE				
* (If no set was made today, record your vessel's mid-day position on the *Start of Set line above. 3. Transit 4. Breakdown 5. Bad weather Circle A when live bait is used															
No. of Hooks betw	een floats	1	5	Vessel Speed (knts) 6.5						1. E	Bait spe	cies		Α	
Total Number of H	ooks	10	000	Line Settin	ng Spee	d (m/s	s)	,	5	2. E	Bait spe	cies		Α	
Total number of lig	tht sticks	()	Dist. Between branchlines (m) 32						3. E	Bait spe	cies		A	
Yellowfin < 25kg	3	60	0			Mahi Mahi	į			3	28				
Yellowfin >25kg	5	170	1	DWD	0	Escolar						2		DUS	0
Bigeye < 25kg	6	130	1	DSD		Wahoo				2	8				
Bigeye > 25kg	1	45	1			Opah				_					
Albacore	15	225	10	DWD		Barracuda	<u>?</u>			R	Reason	Disca	ard	ed	
Skipjack						Barracuda	((GBA)		(Use the	ese C	ode	s	
Stiped Marlin	2	190	0			<u>Breams</u>				DFR -	Dis carde	d fins ret	aineo	d.	
Blue Marlin						Breams	()		DSD -	Dis carde	dshark o	dama	nge	
Black Marlin						Pelagic Sti	ingı	ray		DWD	- Discard	ed whale	dam	nage	
Swordfish						Snake Mad	cke	rel		DUS -	Dis carde	d undes i	rable	species	
S hortbilled S pearfish	1	15	0			Lancetfish	es			DDL -	Dis carde	d difficult	tola	nd	
Sailfish						Sunfish				DTS -	Dis carde	d too s m	all		
Silky Shark			15	DFR	0	Other ()		DPQ -	Dis carde	ed poor q	uality	'	
Blue Shark			5	DFR	0	Other ()		DPS -	Dis carde	d protect	ed s p	oecies	
Oceanic Whitetip			2	DFR		Other ()							_

· · · · · · · · · · · · · · · · · · ·				,				
Hammerhead sharks				Other ()				
<u>Mako sharks</u>				Other ()				
Thresher Sharks				Green Turtle			DP5	1
Other sharks (LMA)	4	45		Hawsbill Turtle				
Other sharks (Loggerhead Turtle				
Other sharks (Leatherback Turtle		1		
Other sharks (Olive Ridley Turtle				
Other sharks (Marine Mammal				
				Bird ()				

Other Comments

Had two mainline breaks today. Took an extra three hours to finish the haul.

Three days before full moon.

Tick to indicate if any catch was taken by whales. Record the number in the rows above.

Captain's Signature

APPENDIX 7. SOUTH PACIFIC REGIONAL OBSERVER FORMS

LL-1	•	Longline General Information
LL-2	•	Longline Set Information
LL-3	•	Longline Haul Information
LL-4	•	Longline Catch Monitoring
LL-5	•	Longline Conversion Factors
PL-1	•	Pole-and-line General Information
PL-2	•	Pole-and-line Daily log
PL-3	•	Pole-and-line Catch Detail
PS-1	•	Purse-Seine General Information
PS-2	•	Purse-Seine Daily log
PS-3	•	Purse-Seine Set Details
PS-4	•	Purse-Seine Length Frequency
PS-5	•	Purse-Seine Well Loading
GEN-1	•	Vessel and Aircraft Sightings and Fish Transfer Log
GEN-2	•	Species of Special Interest
GEN-3	•	Vessel Trip Compliance Record
GEN-6	•	Pollution Report

SOUTH PACIFIC REGIONAL LONGLINE OBSERVER FOR GENERAL INFORMATION

FORM LL-1

REVISED SPC/FFA DEC. 2002

TRIP DETAILS								
OBSERVER NAME	DEPARTURE (SHIP DATE AND TIME) DEPARTURE PORT							
	D D	M M	YY	h h	m m			
OBSERVER TRIP ID NUMBER	RETURN (SHIP DATE AND TIME)				RETURN PORT			

VES	SEL		CAPTAIN AND CREW					
VESSEL NAME	COUNTRY REGISTRATI	ON No.	NATIONALITY	 How many ? 				
				•				
				:				
VESSEL OWNER	FLAG	INTERNATIONAL RADIO CALLSIGN	NATIONALITY	- How many ?				
				•				
				:				
VESSEL CAPTAIN	FISHING MASTER		NATIONALITY	- How many ?				
				•				
				:				
FISHING PERMIT OR LICENCE NUMBER(S)			NATIONALITY	 How many ? 				
				•				
				:				
OBSERVATIONS / COMMENTS								

			ELECTRONICS		
MARINE DE	/ICES		MAKE	MODEL	COMMENTS (equipment us age)
	RADAR # 1	Y/N			
Please circle "Y" or "N"	RADAR # 2	Y/N			
for <u>every</u> item	DEPTH SOUNDER # 1	Y/N			
	DEPTH SOUNDER # 2	Y/N			
	SONAR	Y/N			
	GPS	Y/N			
	TRACK PLOTTER	Y/N			
RADIO BEA	CON DIRECTION FINDER	Y/N			
RADIO	D BUOYS - NON CALL-UP	Y/N			How many ?
1	RADIO BUOYS - CALL-UP	Y/N			How many ?
	GPS BEACON	Y/N			How many ?
DOF	PPLER CURRENT METER	Y/N			
SEA	SURFACE TEMP. GAUGE	Y/N			
WIND SPEED / DIRECTION FINDER		Y/N			
	WEATHER FACSIMILE	Y/N			
VMS (FFA TYPE-APPROVED)		Y/N	S ys tem T ype	Seal#	Seal intact ? Y / N
IMMARSAT SERVICES		Y/N	Phone #	Fax#	E mail:
FISHERY II	NFORMATION SERVICES	Y/N	Phytoplankton Y/N	SST Y/N	Sea Height Y / N

FISHING GEAR									
		COMMENTS	MANINII INIE	MATERIAL		LENGTH	DIAMETER		
MAINLINE HAULER	Y/N		MAINLINE			nM	mm		
BRANCHLINE HAULER	Y/N		BRANCHLINE	Materials	1)				
LINE SHOOTER	Y/N		BRANCHLINE	2)					
AUTOMATIC BAIT THROWER	Y/N		WIRE TRACE	Y/N	3)				
AUTOMATIC BRANCHLINE ATTACHER	Y/N			REFRIGI	ERATED	SEA WATER	Y/N		
WEIGHING SCALES	Y/N		REFRIGE	RATION	BLA	AST FREEZER	Y/N		
			METH	OD		ICE	Y/N		

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").

<u>Departure (Ship Date and Time)</u> 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.

} use 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.

Vessel and Crew

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

<u>Country Registration</u>: 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.

<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>Crew</u>: Report the nationality of each crew member.

<u>Total number of crew</u>: This is to include the Captain and Fishing master.

<u>Observations / Comments</u>: 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.

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

Marine devices: All of these (except the radio buoys) are found on the bridge or in the radio room.

Empty lines: These are to record equipment you think are important but are not listed in this section.

Comments (equipment usage): Is each piece of equipment used during the trip? Is it broken and never used,

or is it only used on rare occassions. Make a comment if it is used in an unusual way. Record this information here.

<u>VMS (FFA type-approved)</u>: Is there a "vessel monitoring system" or ALC "automatic location communicator" on board.

System type: Write down the name of the manufacture: Trimble, Thrane Thrane, Furuno, JRC, Sailor

<u>Seal number</u>: Write down the number that is written on the VMS seal.

Seal intact? The seal should be a bright silver colour. If not it has been interferred with.

Telephone / Facsimile / Email: If the vessel has an Immarsat phone and/or fax/ email address, record them here.

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 fields.

Record the name of 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)

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)

<u>Mainline</u>: Write down the material the mainline was made out of i.e monofilament, tarred kuralon,

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.

<u>Branchline</u>: If there are more than one type of material used in the branchline e.g. monofilament, nylon etc., record them all.

<u>Wire trace</u>: Indicate if wire trace (wire just before the hook) was used in the branchline.

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

Methods: N.B.: There may be more than one refrigeration method

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

				SOU	ГН РАС		EGIONAL INFORMA		INE OB	SERVE	R	FORM LL-2		
REVISED SPC/FFA	A DEC. 2002					V								
OBSERVER NAM	1E				VESSEL	NAME				OBSERVER	TRIP ID NUMBER	SET No. PAGE OF		
	LONGLIN	E SET SI	PECIFICATIONS			UNU	ISUAL SET D	ETAILS		BAIT USI	ED	START OF SET		
No. OF HO	OKS PER BASKET		VESSEL SPEED	(k	ts)				SPECIES (KGS) HOOK No's		HOOK No's	SHIP'S DATE AND TIME DD MM YY hh mm		
TOTAL No.	OF BASKETS		LINE SETTING SE	PEED (m	n/s)									
TOTAL No.	OF HOOKS		BRANCHLINE SET II	NTERVAL ((s)							UTC DATE AND TIME D D M M Y Y h h m m		
LENGTH O	F FLOATLINE (m)		BETWEEN BRAN	CHLINES (m)	TDR DE	PLOYED?	Y / N						
LENGTH OF	BRANCHLINES (m)		No. OF SHARK LI	NES (on flo	ats) IN SET	-	LENGTH (m)					ALL MUST BE RECORDED		
Tick to indica	te TARGET SPECIES		TUNA	\bigcirc s	WORDFIS	$\bigcup_{\mathbb{T}}$	SHARK							
							SET LOG	,						
SHIP'S TIME	<u>LATITUDE</u> (dd° mm.mmm') N	LONGITUI (ddd° mm.m		E <u>V</u> V (kts)	VIND (°)	SEA (C-S-M-R-V)	CLOUD (%)			СОМ	MENTS		
START SET														
END SET														
	SOAK T		l Por	SHIP'S TIME	(kts)	VIND (°)	SEA (C-S-M-R-V)	CLOUD (%)			COM	MENTS		

when suitable and comment generally on conditions throughout soak time.

SET INFORMATION

NOTES ON FORM LL-2

<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.: Start at "Set No. 1", "Set No. 2", "Set No. 3", etc. for each trip.

<u>Page of</u>: Number Form LL-2's through trip as Page 1, Page 2, Page 3, etc.

At end of the trip, check all pages are there (again) then 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").

No. of hooks per basket: See diagram to the right.

 $\underline{\textit{Total No. of Baskets}}$, $\underline{\textit{Total No. of Hooks}}$: 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 the diagram to right.

<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).

Line Setting Speed (m/s): Recorded only from vessels with line shooters.

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

<u>Between branchlines (m)</u>: Distance between branchlines may have to be actually measured (in metres (m)) or can be calculated by the observer using the formula: <u>Line Setting Speed</u> x <u>Branchline Set Interval</u>, otherwise it can be obtained from the captain, fishing master or bosun if line setting speed and branchline set interval can't be found.

No of shark lines (on floats) in set? If your vessel has special lines tied

directly to the floats to catch extra sharks count the total number set in the set.

N.B. Do not count a shark line on a float as one of the hooks per basket

 $\underline{Length(m)}$: The length (in metres) of the shark line

<u>TDR deployed? Y/N</u>: Circle Y (yes) ever time you use a temperature depth recorder - supplied by your observer programme - during a set

Bait Used - Species, Kgs: Record species and weight (in kgs) of each bait used.

<u>Bait Used - Hook No's</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 no's" alongside that bait species.

Primary Target Species. Tick to indicate the main species the vessel is targeting during this set.

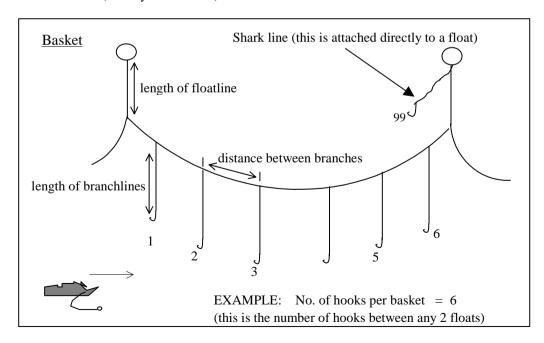
<u>Start of Set</u>, <u>Ship's date</u>, <u>Ships time</u>, <u>UTC date</u>, <u>UTC time</u>: At the start of each set you must record the time and date that the ship's clock (and your watch) are set to, and the UTC time and date as read from the GPS. At all other times use only Ship's time. Remember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

<u>Start Set</u> and <u>End Set</u>: Always fill all fields in the "Start" and "End" set lines. <u>Hourly Positions</u>. Ideally you should try to take the position on the hour every hour. If this is not possible, do your best to record the position as close to every hour, as possible. <u>Latitude, Longitude, N, S, E, 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 (e.g. "05°27.985' S, 152°28.239' W").

Wind (kts), (°): Record speed in knots and direction in degrees of the compass (e.g. for a 15 knot easterly wind, under (kts) print "15" and under (°) print "090") Sea (C-S-M-R-V): Sea conditions = Calm, Slight, Moderate, Rough, or Very Rough Cloud (%): Cloud cover should be recorded as 10%, 20%, 30%, etc., to 100%.

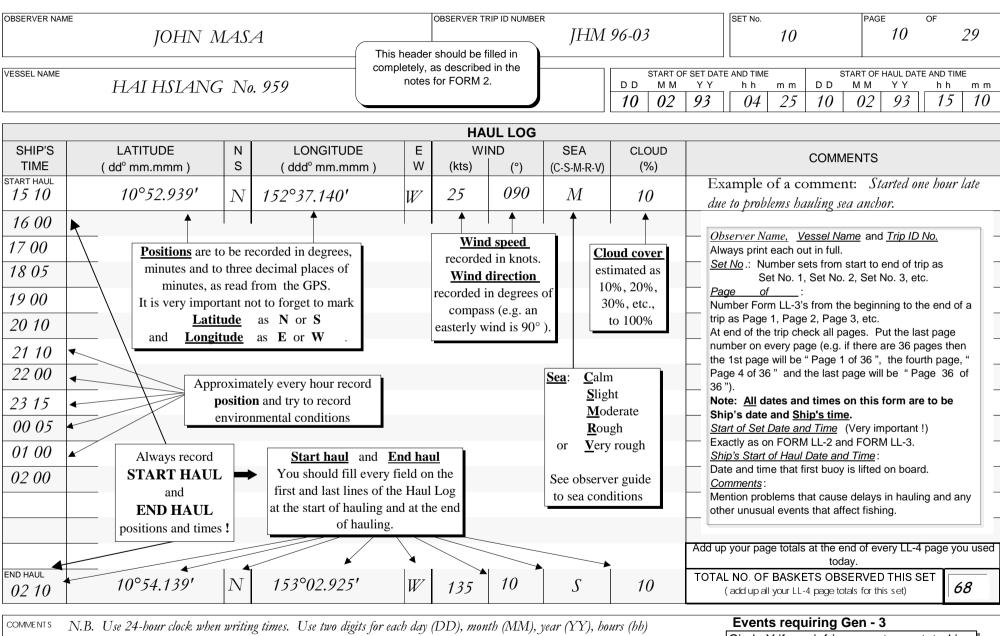
Comments: Special circumstances that affect setting strategy or cause problems.

<u>Soak Time</u>: Even if you are asleep throughout this time make an effort to learn what the conditions were (notably cloud cover) and describe under "Comments"



			SOUTH PACI					DBSERVER		F	ORM LL-	3
REVISED SPC/FFA	DEC 2002			AUL	INFOR	MATIO	IN					
OBSERVER NAME					OBSERVER T	RIP ID NUMBE	R		SET No.	PAGE	OF	
VESSEL NAME								START O	F SET DATE AND TIME YY hh m m D	START OF HAUL D D M M Y Y	ATE AND TIME h h m	m
SHIP'S TIME	LATITUDE (dd° mm.mmm)	N S	LONGITUDE (ddd° mm.mmm)	E W		IAUL LOO IND (°)	SEA (C-S-M-R-V)	CLOUD (%)	cc	DMMENTS		
START HAUL	(,		()				(0 0					
END HAUL									TOTAL NO. OF PAGETTS	ODOEDVED TWO	057	
LNDTIAUL									TOTAL NO. OF BASKETS (add up all your LL-4 pa		SE I	
COMMENTS									EVENTS	J OBSERVE AN' S TODAY THAT SE FORM GEN-3		

HAUL INFORMATION



COMMENTS N.B. Use 24-hour clock when writing times. Use two digits for each day (DD), month (MM), year (YY), hours (hh) and minutes (mm). To do this put a "0" in front of single digit dates and times.

E.g.: 8 minutes past 2, morning, is 02 08; 8 minutes past 2, afternoon, is 14 08; and the 3rd of January, 1996 is 03 01 96.

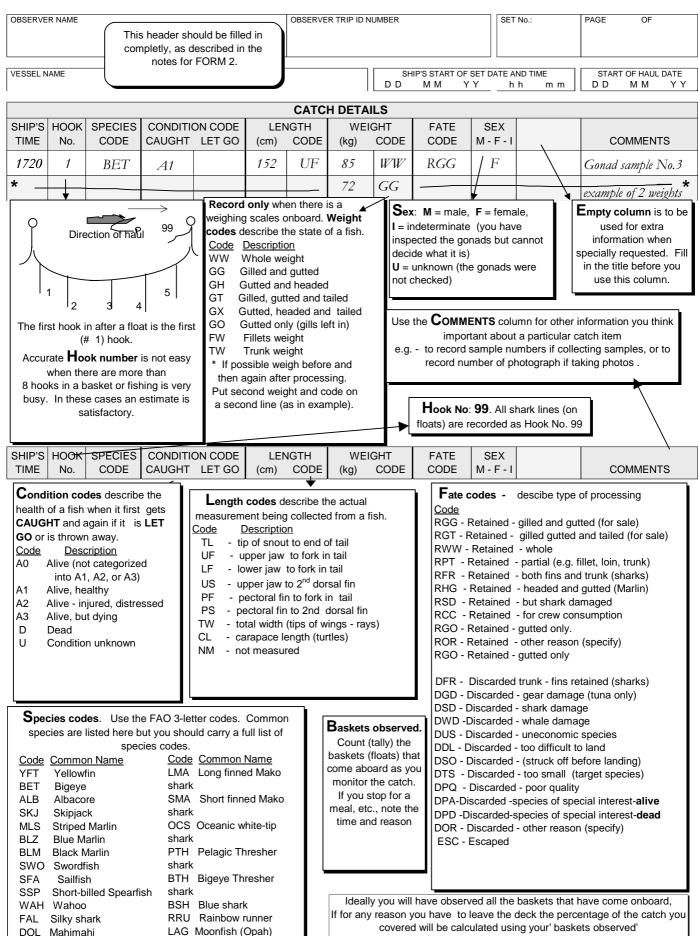
Circle Y if any infringements as stated in form GEN- 3 were observered. Record notes in your diary.

SOUTH PACIFIC REGIONAL LONGLINE OBSERVER FORM LL-4 **CATCH MONITORING** REVISED SPC/FFA DEC. 2002 OBSERVER TRIP ID NUMBER SET No. PAGE OF OBSERVER NAME VESSEL NAME START OF HAUL DATE SHIP'S START OF SET DATE AND TIME D D ММ ΥY h h $\mathsf{m} \; \mathsf{m}$ D D ММ **CATCH DETAILS** WEIGHT SHIP'S HOOK SPECIES CONDITION CODE LENGTH FATE SEX COMMENTS AND CODE CAUGHT LET GO (cm) CODE CODE CODE M- F- I - U TAGS NUMBERS TIME No. (kg)

Page Total:

Baskets observed on this form: Tally:

CATCH MONITORING



covered will be calculated using your' baskets observed' tally'. If your tally is not the same as the total amount of baskets you observered (i.e you missed some). MAKE A NOTE.

OIL Oilfish

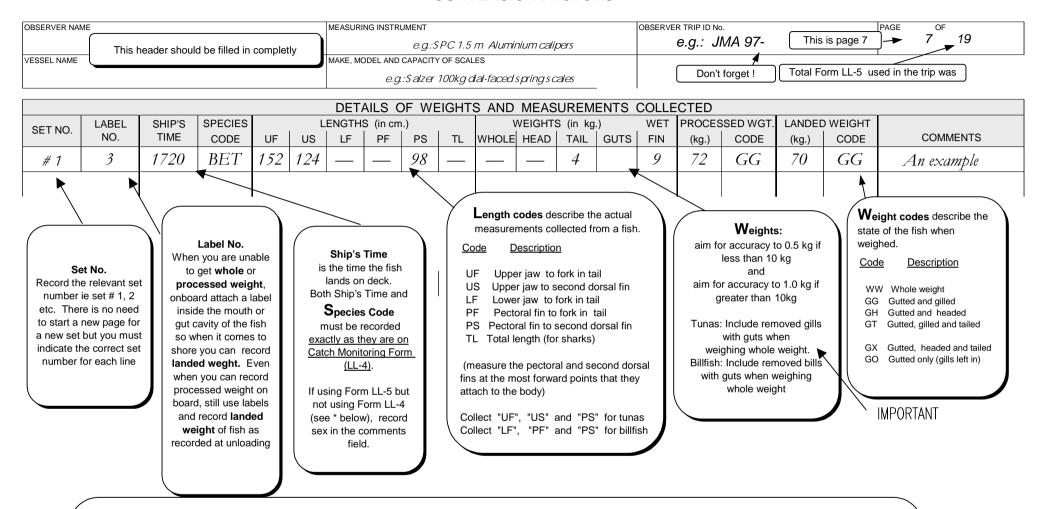
SOUTH PACIFIC REGIONAL OBSERVER CONVERSION FACTORS

<u></u>	/ICED	SPC/FFA	חבכ	2002

OBSERVER NAME	MEASURING INSTRUMENT	OBSERVER TRIP ID No.	
VESSEL NAME	MAKE, MODEL AND CAPACITY OF SCALES	SHIP'S START OF TRIP DATE	SHIP'S END OF TRIP DATE
V25522.W.W.2		C C C C C C C C C	O'III O'EITO O' I'III D'ITE

Set No. Ships Lange Secies Secies Lange Secies Lange Secies Seci																				
Set no							DE	TAILS	OF W	'EIGH	TS AND	MEAS	UREME	NTS C	OLLECT	ED				
TIME NO. CODE UF US LF PF PS TL WHOLE HEAD TAIL GUTS WEFFN 0g. CODE (0g.) CODE COMMENTS TIME NO. CODE UF US LF PF PS TL WHOLE HEAD TAIL GUTS WEFFN 0g. CODE (0g.) CODE COMMENTS THE NO. CODE UF US LF PF PS TL WHOLE HEAD TAIL GUTS WEFFN 0g. CODE (0g.) CODE COMMENTS THE NO. CODE UF US LF PF PS TL WHOLE HEAD TAIL GUTS WEFFN 0g. CODE (0g.) CODE COMMENTS THE NO. CODE UF US LF PF PS TL WHOLE HEAD TAIL GUTS WEFFN 0g. CODE (0g.) CODE (0g.) CODE COMMENTS THE NO. CODE UF US LF PF PS TL WHOLE HEAD TAIL GUTS WEFFN 0g. CODE (0g.) CO	SET NO	SHIP'S	LABEL	SPECIES		. L	ENGTH	S (in cm	ı.)			WEI	GHTS (ir	kg.)		PROCES	SED WGT.	LANDED	WEIGHT	
	OLT NO.	TIME	NO.	CODE	UF	US	LF	PF	PS	TL	WHOLE	HEAD	TAIL	GUTS	WET FIN	(kg.)	CODE	(kg.)	CODE	COMMENTS
																				<u> </u>

CONVERSION FACTORS



This form is to be used in addition to the Catch Monitoring Form LL-4. 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 the catch. 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 elect or have been asked to take time out from normal sampling procedures to put more effort into collecting conversion factor information. Consequently the Catch Monitoring Form may not be utilised. In these cases you should attempt to record sex of the fish in the comments section.

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.

SOUTH PACIFIC REGIONAL POLE AND LINE OBSERVER GENERAL INFORMATION

FORM PL - 1

REVISED BY SPC/FFA DEC. 2002							
	TRIP DETAIL	S					
OBSERVER NAME	DEPARTURE PORT		DEPARTURE (SHIP DATE AND TIME				
			D D	M M	ΥY	h h	m m
OBSERVER TRIP ID NUMBER	RETURN PORT			RETURN (SHIP DATE	AND TIME)	
			DD	M M	ΥY	h h	m m
	VECCEI		'	CAI	OT AINL	AND CE	
	VESSEL					AND CF	
VESSEL NAME	COUNTRY REGISTRATION No	D.		NATIONA	LITY	. How	many?
						:	
VESSEL OWNER	FLAG	INTERNATIONAL RADIO CAL	LSIGN	NATIONA	LITY	. How	many?
VESSEL CAPTAIN	FISHING MASTER	<u> </u>		NATIONA	LITY	. How	many ?
						÷	
FISHING PERMIT OR LICENCE NUMBER(S)				NATIONA	ITY	- How	many ?
THE THE PERMIT OF EIGENEE NOMBER(O)				10/11/01/0		: 11011	many .
						:	
OBSERVATIONS / COMMENTS							

		ELECTRONICS		
MARINE DEVICES		MAKE	MODEL	COMMENTS (equipment usage)
NAVIGATIONAL RADAR No. 1	Y/N			
NAVIGATIONAL RADAR No. 2	Y/N			
BIRD RADAR	Y/N			
GPS	Y/N			
TRACK PLOTTER	Y/N			
SONAR	Y/N			
DEPTH SOUNDER	Y/N			
DEPTH SOUNDER	Y/N			
RADIO DIRECTION FINDER	Y/N			
RADIO BUOYS - NON CALL-UP	Y/N			
RADIO BUOYS - CALL-UP	Y/N			
DOPPLER CURRENT METER	Y/N			
BATHYTHERMOGRAPH / XBT	Y/N			
WEATHER FACSIMILE	Y/N			
NOAA WEATHER SATELLITE MONITOR	Y/N			
SEA SURFACE TEMP. GAUGE	Y/N			
WIND SPEED / DIRECTION GAUGE	Y/N			
BINOCULARS	Y/N		Number / Power	
VMS (FFA TYPE APPROVED ALC)	Y/N	T ype of S ystem	S eal #	S eal Intact?
IMMARSAT SYSTEM	Y/N	Phone#	Fax#	Email:
FISHERY INFORMATION SERVICES	Y/N	Phytoplankton Y N	SST Y N	S ea Height YN
AUTOMATIC POLING DEVICES	Y/N		Number	

OBSERVATIONS / COMMENTS

GENERAL INFORMATION

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").

Departure Port / Return Port: 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

<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").

International radio call-sign (IRCS): 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.

Fishing Permit or Licence Number(s): 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.

Crew: Report how many of each different nationality on board (this includes the Captain!).

<u>Total number of crew</u>: This is to include the Captain and Fishing master.

Observations / Comments: 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

Marine devices: All of these (except the radio buoys) are found on the bridge or in the radio room.

Empty lines: These are to record equipment you think are important but are not listed in this section.

Y/N: Circle "YN" if yes, the vessel does have this device, or "Y/N" ho, if it does not. <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.

Binoculars: 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 (FFA type-approved): Is there a "vessel monitoring system" on board? What type?

Type of System: Write down the name of the manufacture eg Trimble, Furno, JRC

<u>Serial number</u>. Record the number on the seal tag. Seal intact? The seal should be a bright silver colour unless it has been interferred with.

Telephone / Facsimile / Email: If the vessel has a fax, phone or email address record it here

Fishery Information Services give vessel access to instant information on the state of a number oceanographic features that affect fishing. Note down the type of information being accessed by the vessel. For instance are they getting information on sea surface temperatures, sea height or phytoplanton densities. Note the name of the website in your written report.

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.

FORM PL - 2

SOUTH PACIFIC REGIONAL POLE AND LINE OBSERVER **DAILY LOG**

REVISED BY SPC/FFA DEC. 2002

BSERVER	NAME					VESSEL N	AME					OBSERVER TR	IP ID NUME	BER
SHIP'S TIME	LATITUDE (dd° mm.mmm')	N S	LONGITUDE	E W	ACTIVITY CODE		OOL DETECT	SPECIES 1	BAIT SPECIES 2	SPECIES 3	No. of	BEACON / PAYAO #		COMMENTS
	(dd mm.mmm)		(ada mm.mmm)			7,0000	52.20.	0. 20.20	0. 20.20 2	0. 20.200	BOOKETO			
		FLC	DATING OBJECT AND		Anaharad fi-		oto	Fro - 4	laatina aki-	to (no on-b				DID YOU OBSERVE
FLOA	TING OBJECT		CHOOL SIGHTINGS		Anchored floa					cts (no ancho		Free sch	ools	ANY EVENTS TODAY
AN	D SCHOOL		<i>Example</i> Lally Lotal	(with	NO school)		Tally	Total	School) Tally	(with s	Tally	Total	Tally	THAT REQUIRE A
SI	GHTINGS	1/4		I Oldi	i cany	I Old	. cany	· Otal	i aliy	I Oldi	i carry	, ota	i caily	FORM GEN-3? YES NO

OTABL OF DAY	

START OF DAY SHIP's TIME UTC TIME MUST BE RECORDED

TIVITY CODES

- oraying, chumming or poling
- arching
- ansit
- fishing breakdown
- fishing bad weather
- port please specify
- chored in bait grounds
- vestigate free school
- estigate floating object
- Deploy- raft, FAD or payao
- Retrival raft, FAD or payao
- fishing drifting at day's end
- fishing drifting with log
- fishing other reason
 - (please specify)
- it fishing
- trieve Beacon (change only)
- ploy Beacon (change only)

OOL ASSOCIATION

- associated
- eding on baitfish } Free schools
- fting log, debris or dead animal
- fting raft, FAD or payao
- chored raft, FAD or payao
- whale
- whale shark
- ner (please specify)

OW DETECTED

- en from vessel
- en from helicopter
- ked with beacon
- l radar
- ar / depth sounder
- from other vessel
- nored FAD / payao

OBSERVERS DAILY LOG

NOTES ON FORM PL - 2

		NOTES ON TORMITE - 2
OBSERVER NAME	First name first and last name last. Be sure to print full name.	
VESSEL NAME	Vessel's full name with no abbreviations. E.g., the "Captain Kalahari 3" should not be abbreviated to the "Capt. Kalahari".	
OBSERVER ID NUMBER	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 Place at the top of every Form or other paper collected.	trip.
PAGE OF	Number each Form PL - 2 sequentially. Continue until trip is completed. The last page number will be number for the "of" fit 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"	eld.
START OF DAY		
SHIP'S DATE	Write the date that the officers and crew use on the vessel	
SHIP'S TIME	Write the time that the officers and crew are using (the time that is on the ship's clock).	
UTC DATE	Get the date from the GPS at the same time as you record the date the vessel is using. Note that the date on the GPS (UTC) could indicate a different date. Still report this date.	
UTC TIME	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 GMT/UTC.	
SHIPS TIME	Record the "Ship's time" every time the activity changes (as often as necessary). Record all codes and other details for each ac	tivity.
ACTIVITY LOG		
LATITUDE and LONGITUDE	Get this from the GPS and always record in degrees, minutes and minutes to 3 decimal places. This is how it is usually shown If the GPS shows seconds instead of 3 decimal places of minutes, then record the seconds but note that you recorded seconds in	
Latitude	dd = degrees; mm = minutes; mmm = decimal minutes. If less than 10 degrees, always put zero in front of number (e.g.: "5" is	
Longitude	ddd = degrees; mm = minutes; mmm = decimal minutes.	
N/S and E/W	Check the GPS. This is very important! Never forget to record N, S, E or W beside the position.	
ACTIVITY 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 If there are two possible activities for the same time, record the code for the main activity on the sheet, then comment on the ot	her activity in the comments column.
(Activity Code "1")	"Spraying, Chumming or Poling" starts when the vessel starts trying to attract fish by chumming bait, using sprayers or other n "Spraying, Chumming or Poling" ends when no more fish are being caught and vessel starts searching for another school or sta Small periods (minutes) of not fishing are common (when vessel moves to catch up with fish for example) and should not mark	arts another activity (new Activity Code).
SCHOOL ASSOC.	The "SCHOOL ASSOCIATION" codes are used to show if the school with a floating object, a marine mammal or whale sharl If it is a free school then the "SCHOOL ASSOCIATION" codes show if it is feeding on a school of baitfish (not the vessel's base).	
DETECT	Use "HOW DETECTED" codes to best describe how your boat found the fish. If more than one code fits use the one that best	
BEACON/PAYAO#	Record the beacon or payao number used to mark a log, payao or FAD. Write a 'B' before a beacon number and write a 'P' beac	ore a payao number.
COMMENTS	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.	
BAIT FISHING		
SPECIES 1, 2, 3	When the activity code is "14" (Bait fishing) record the three most common species that are caught. Use FAO species codes we Only use the family group codes provided if you are unable to identify the bait down to species level.	hich should be provided.
NO. OF BUCKETS	Record the total number of buckets of bait that are lifted on to the boat to put into the bait wells.	
IMPORTANT I	If the boat has run out of bait and so the boat changes activity, record "No More Bait" in the comment column in t	bait.
FLOATING OBJECTS AN		
	A floating chiect can be a tree log drum EAD payage or any other floating debris	

IMPORTANT NOTES!	A floating object can be a tree, log, drum, FAD, payao or any other floating debris.
IWI OKTANI NOTES :	Fish not associated with a floating object are free schools. Free schools can be either "feeding 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 day add the strokes and write in the total.
Floating objects (with no school)	Make a stroke here every time you see a floating object that doesn't seem to have tuna with it.
Schools under floating objects	Make a stroke here every you see a floating object with tuna swimming around it.
Free schools	Make a stroke when you see tuna that has no floating object with it. These tuna may or may not be feeding on bait fish.

SOUTH PACIFIC REGIONAL POLE-AND-LINE OBSERVER FORM PL - 3 **CATCH DETAILS** REVISED BY SPC/FFA DEC. 2002 OBSERVER NAME VESSEL NAME OBSERVER TRIP ID NUMBER PAGE OF SHIP'S DATE START MEASURING INSTRUMENT FINISH No. OF CREW POLING SPRAYING, DD h h h h m m m m CHUMMING and POLING time: COMMENTS TARGET SPECIES OTHER SPECIES CATCH CATCH COMMENTS **SPECIES FATE SPECIES FATE** CODE CODE CODE CODE m TNo. SKJ **YFT** BET TAG# SEX LENGTH (cm) WEIGHT (kg)) SPECIES How many tags were recovered? LENGTH SPECIES **SPECIES** LENGTH **SPECIES** LENGTH SPECIES LENGTH SPECIES LENGTH CODE (cm) CODE (cm) CODE (cm) CODE (cm) CODE (cm) 43 63 83 24 44 64 84 25 45 65 85 26 46 86 66 47 67 28 48 68 88 29 49 69 89 30 50 70 90 51 91 12 32 52 72 92 13 33 53 73 93 34 54 74 94 15 35 55 75 95 16 36 56 76 37 57 18 38 58 78 98 19 39 59 79 99 40 100 Σ lengths Σ lengths Σ lengths Σ lengths Σ lengths **TARGET SPECIES OTHER SPECIES** SKJ YFT BET Number Sampled: Sum of lengths:

Average length:

CATCH DETAILS

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, S	TART - When the vessel starts trying to get fish to bite by chumming bait, using sprayers
CHUMMING, times:	It is very Important 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.
F	INISH - 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 random 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.
Σ LENGTHS (= sum of lengths)	Only add up the lengths in the column above. This is used for data entry checking

A Number Sampled: 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.)

Important points Fate codes: RWW - Retained - whole weight 1 Spread your sampling throughout the entire fishing period. RCC - Retained - crew consumption (onboard)	
1 Spread your sampling throughout the entire fishing period DCC Detained grown consumption (or beginning throughout the entire fishing period)	ale)
Spread your sampling throughout the chare rishing period.	1)
2 Always get a random sample. ROR - Retained - other reason (specify)	
Do not let crew select fish for you even though they are trying to assist.	
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	
6 If using a deck tape, make sure fish is on the tape straight when measuring DOR - Discarded - other reason (specify)	

- 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.
- 10 Don't forget to note species code, especially when there is a change of species while you are measuring.

SOUTH PACIFIC REGIONAL PURSE SEINE OBSERVER FORM PS - 1 GENERAL INFORMATION (Page 1)

REVISED SPC/FFA DEC. 2002									
		TRIP DE	TAILS						
OBSERVER NAME		DEPARTURE PORT			DE	PARTURE	(SHIP'S DA	TE AND TIN	ΛE)
					DD	ММ	YY	h h	m m
OBSERVER TRIP ID NUMBER		RETURN PORT			F	RETURN (HIP'S DATE	ANDTIME)
					D D	M M	ΥY	h h	m m
		VESSEL CHA	RACTER	RISTICS					
VESSEL NAME		COUNTRY REGISTRAT			FISHING P	ERMIT(S)	OR LICENCE	E NUMBER	S)
						. ,			,
VESSEL OWNER		FLAG OF VESSEL	INTERNATIO	NAL RADIO CALLSIGN					
No. OF SPEED BOATS	No. OF TOW BOATS	No. OF LIGHT BOATS	NET SKIFF EI	NGINE MAKE / HORSEPOW	ER	VES	SEL CRUISIN	NG SPEED	(kts)
HELICOPTER MAKE AND MODE	L	HELICOPTER REGISTI	RATION No.	EFFECTIVE RANGE OF H	ELICOPTER	!	COLOUR O	F HELICOP	TER
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		FISHING	G GEAR						
POWER BLOCK: MAKE	MODEL	PURSE WINCH:	MAKE N	MODEL	Capacity of	Brail (no.	1)		
					' '	•	,		
									mT
MAX. NET DEPTH	MAX. NET LENGTH	NET - No. OF STRIPS	NET MESH S	IZE OF MAIN SECTION	Capacity of	Brail (No.	2)		
IVI	IVI						-/		
Υ	Υ			CM IN					
F	F								mT
BRAILER TYPE									

	ELECTRONICS, etc.								
MARINE DEVICES		MAKE	MODEL	COMMENTS (equipment us age)					
BIRD RADAR	Y/N								
DEPTH SOUNDER	Y/N								
DEPTH SOUNDER	Y/N								
SONAR	Y/N								
TRACK PLOTTER	Y/N								
RADIO DIRECTION FINDER	Y/N								
RADIO BUOYS (NON CALL-UP)	Y/N								
RADIO BUOYS (CALL-UP)	Y / N								
GPS BEACON	Y/N								
ECHO SOUNDING BUOY	Y/N								
DOPPLER CURRENT METER	Y/N								
WEATHER SATELLITE MONITOR	Y/N								
VMS (FFA TYPE-APPROVED)	Y/N	Type of System	Seal#	Seal intact?					
IMMARSAT SERVICES	Y/N	Phone #	Fax#	Email:					
FISHERY INFORMATION SERVICES	Y/N	Phytoplankton Y N	SST Y N	Sea Height Y N					

OTHER COMMENTS (NOTE ANY NEW OR UNUSUAL GEAR / ELECTRONICS)

GENERAL INFORMATION Trip Details

DESERVEN NAME First name first Law name last Male some to prime. Is John Smith on Smith John DIPARTITURE (PORT SHIP'S DEPARTURE DATE AND TIME		Trip Details (FAGE 1)
DEPARTURE PORT Nat from which vessel left to start the present stap. Le Pago, Giana, Chaise, etc. Record the data and time from the helps clock, when the vessel throws of its amorting repes or pulls up its acknor or earl array. Record Sulp's time. Do not record ITC time here. Plan number's touch before you lesve part and chould be used on all forms used for that trip. The number will not change for the entire trip. Plane wherever required on all forms. RETURN PORT SHIP'S RETURN DATE AND TIME The deat and time when the essel the use of one of part that you described from the vessel. When you family out suit po that its used on port. Do not crond UTC time here. Vessel Characteristics nd the same transplane to some vessel vessel to none crowd UTC time here. Vessel Characteristics are vessel to the none "vessel vessel to none transplane" to the page and th	OBSERVER NAME	
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PURSE WINCH - MAKE - MODEL Brand of main purse winch on the vessel. The model of the winch. If you can't see this on the winch, ask the winch driver or engineer. Only fill in this information if you are sure it is correct. If you are unsure about the information you have received record it in your written report only, with a note. The deepest depth of the net wall when it has been set. M = Metres; Y = Yards; F = Fathoms. Make sure you circle the correct unit used on the vessel for net measurements The length of the net when it has been set. M = Metres; Y = Yards; F = Fathoms. Make sure you circle the correct unit used on the vessel for net measurements Each net is made up of strips of netting sewn together to create the depth of the net. How many of these strips make up the net? For example if the depth of the net is 300 metres and strips are 10 metres wide, 30 strips of net are required to make the net depth. Adding strips deepens the net, taking strips away makes the net shallower. Ask the deck boss or engineer for this information. There are a number of mesh sizes used. All that is required is the mesh size of the main body of the net. Make sure the units are recorded in "CM" centimetre or "IN" lnches. Ask the Deck boss CAPACITY OF BRAILER CAPACITY OF BRAILER The capacity in Metric Tonnes. Once known this figure will assist you to estimate the catch caught. If there is a second brailer onboard (mostly on Japanese vessels), record the capacity of the second brailer aswell. Describe the brailing operation - exactly. This includes; how the mouth of the net was held open - i.e. with the skift or by a boom, the design of the actual brailer - long handle, short handle, no handle or x-shaped and whether the brailer was linked to a boom or the purse davit. A full description of the brailer type should be included in your written report. Electronics If the vessel has a device circle (Y) yes. If the vessel does not have the device circle (N) No you must circle Y or N for every device listed. Name of com	- MODEL	
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record the number on the seal tag. If the seal is still intact it will be a bright silver colour. Vessels may access Fishery information services to download instant or daily information on a number of oceanographic features which affect fishing. Record the type of information that is being accessed. Some information commonly being accessed is the sea-surface temperature, phytoplanton density and sea height. Record the name of the website in your written report. Write any comments relative to the equipment or its use. Say whether each piece of equipment was used during		Write down the name of the manufacturer or the VMS system e.g. Furning IRC Trimba, etc. For seed number
Vessels may access Fishery information services to download instant or daily information on a number of oceanographic features which affect fishing. Record the type of information that is being accessed. Some information commonly being accessed is the sea-surface temperature, phytoplanton density and sea height. Record the name of the website in your written report. Write any comments relative to the equipment or its use. Say whether each piece of equipment was used during	VMS (ffa type approved)	
oceanographic features which affect fishing. Record the type of information that is being accessed. Some information commonly being accessed is the sea-surface temperature, phytoplanton density and sea height. Record the name of the website in your written report. Write any comments relative to the equipment or its use. Say whether each piece of equipment was used during		
information commonly being accessed is the sea-surface temperature, phytoplanton density and sea height. Record the name of the website in your written report. Write any comments relative to the equipment or its use. Say whether each piece of equipment was used during		The state of the s
the name of the website in your written report. Write any comments relative to the equipment or its use. Say whether each piece of equipment was used during	FISHERY INFORMATION SERVICES	1
your trip, whether it is never used - too old, broken etc or only sometimes used.	COMMENT (equipment usage)	Write any comments relative to the equipment or its use. Say whether each piece of equipment was used during
	COMMENT (equipment usage)	your trip, whether it is never used - too old, broken etc or only sometimes used.

	,	SOUTH PACIFIC R	EGIONA GENER				ER	F	ORM PS - 1 (Page 2)	
OBSERVER NAME			VESSEL NAME			OI	OBSERVER TRIP ID NUMBER			
		W	ELL CON	TENTS	(OTHER THE	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				
	FUEL S	STORAGE			ATER STO					
WELL NUMBER	P/S	WELL CAPACITY (mT)	WELL NU			WELL CAPACITY (mT)	СО	MMENTS	
		, ,								
							_			
TOTAL FISH	H STOR	RAGE CAPACITY IN ME	ETRIC TOI	NNES:		→	mΤ			
				CRE	W					
POSITION			NAME		YRS EXP.	NATIONALITY		COMMENTS		
CAPTAIN										
NAVIGATOR / MA	ASTER									
MATE										
CHIEF ENGINEER	R									
ASSISTANT ENG	INEER									
DECK BOSS										
соок										
HELICOPTER PIL	_OT									
HELICOPTER ME	CHANIC									
SKIFF MAN										
WINCH MAN										
Position		Name	Yrs exp.	Natio	onality	Name	•	Yrs. exp	Nationality	
CREW										
CREW										
CREW										
CREW										
CREW										
CREW										
CREW										
CREW										
CREW										
CREW										
Total:				—	TOTAL N	UMBER OF CREW	(include	Captain and	officers)	

GENERAL INFORMATION

(PAGE 2)

	<u> </u>
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 NUMBER	Fill in your trip identification number as supplied by your programme before departure.

WELL CONTENTS- (Other than tuna)	Make a record of any wells which are filled with fuel and water only, not with fish, use the comments column to indicate if these were emptied and used for fish storage later.
FUEL STORAGE - WATER STORAGE	Record all the well numbers and capacity of the wells which contain fuel under the 'fuel storage' heading only. Likewise record the well numbers and capacity of the wells which contain water under 'the water storage column' only.
WELL NUMBER	Record the vessel's well number here. Ask the Chief Enginner or have a look at the vessel's well plan.
P/S	Indicate whether the well was on the port (P) or starboard (S) side by circling the appropriate letter.
WELL CAPACITY	State the total fish carrying capacity of this well in metric tonnes. Ask the Chief Enginner to help you.
TOTAL FISH STORAGE CAPACITY IN METRIC TONNES:	Add up the total capacity for all the individual vessel's storage wells, then place the vessel's total fish carrying capacity in metric tonnes here. This is important information. Ask to see the vessel's well plan or get the Chief Enginner to help you.

Crew Details

COMMENTS OR DRAWING OF WELL PATTERN

CIEW Details	
POSITION AND NAME	Select the position and enter the name of the crew relative to this position. If you can't get crew names ask for the crew list which is normally given to immigration when the vessel goes to Port. It will have all the crew names on it. Record first and last name last, also be certain of the spelling. If a person holds more than one position write "Same as the (other position they hold)" e.g.: helicopter pilot may be helicopter mechanic; the Captain may be the Navigator/Master.
YEARS EXPERIENCE	Record the number of years experience the crew member or officer has in this position. For instance if the Captain has been fishing on purse-seine vessel's for 20 years but has only been a Fishing Captain on purse-seine vessels for five years write in '5'.
NATIONALITY	The nationality should be available on the crew list. Pay particular attention to the nationality of any Pacific Islanders amongst the crew.
COMMENTS	Record any information about the crew in this column. This could be a name of a vessel they previously worked on, or the name of Fishery Colleges they attended. Any relevant information may be useful.
TOTAL NUMBER OF CREW	Add up the number of crew being careful not to count some of the crew twice.
	The crew list has the most common positions on a purse seine vessel, if there are extra specialist positions that are not listed here, write them in one of the crew rows. If the vessel does not have anyone in the position indicated write "Vacant" in the name column.

SOUTH PACIFIC REGIONAL PURSE-SEINE OBSERVER DAILY LOG

REVISED SPC/FFA DEC. 2002

REVISEDS	SPC/FFA DEC. 2002																	
OBSERVER NAME			VESSEL NAME							OBSERVER TRIP ID NUMBER	PAGE	OF						
SHIP'S		N		Е	EEZ			SEA					COMMENTS	START	RT OF DAY			
TIME	(dd°mm.mmm')	S	(ddd°mm.mmm')	W	CODE	CODE	(kts)	(°)	C-S-M-R-V	ASSOC.	DETECT	/ PAYAO #		- COMMENTO	SHIP's DATE	SHIP's TIME		
															UTC DATE	UTC TIME		
															ALL MUST BE	RECORDED		
															ACTIVITY and HELICO	OPTER CODES		
															1 Set			
															2 Searching			
															3 Transit			
															4 No fishing - Break 5 No fishing - Bad w			
															6 In port - please sp			
															7 Net cleaning set	,		
															8 Investigate free so	chool		
															9 Investigate floating			
															10D Deploy - raft, FAI			
															10R Retrieve - raft, FAD or payao 11 No fishing - Drifting at day's end			
															_	ig at days end ig with floating object		
															13 No fishing - Other			
															14 Drifting -With fish			
															15R Retrieve - beaco			
															15D Deploy - beacon			
															H1 Helicoptor takes o			
															H2 Helicopter returne	d from search		
															SCHOOL ASSOCI			
															1 Unassociated 2 Feeding on Baitfis	Free school		
															3 Drifting log, debris	or dead animal		
															4 Drifting raft, FAD of			
															5 Anchored raft, FA			
												+			6 Live whale			
															7 Live whale shark			
															8 Other (please spe	ecify)		
															HOW DETECTED			
															1 Seen from vessel			
															2 Seen from helicop	oter		
FLOAT	ING OBJECT AND		Anchored flo	atin	a obiect	S	s Free floating objects (no anchor)						_ DID YOU OBSERVE		3 Marked with beach	on		
SCHOOL SIGHTINGS			(with NO school)		with s)		_ · · · · · · · · · · · · · · · · · · ·						Free schools	ANY EVENTS TODAY	4 Bird radar			
	Example	Т	ally Total		ally	Total	Tally	•	Total	Tal	`	Total	Tally Total		5 Sonar / depth sou	nder		
Tally	Lotal	-									_			FORM GEN-3?	6 Info. from other ve	essel		
Ш	7 6													YES NO	7 Anchored FAD / p	ayao		

OBSERVER'S DAILY LOG

<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>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>, <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 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>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)

 $\underline{\mathit{Total}}$: Add up the "tally" strokes at the end of the day to get the total.

<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.

Anchored FAD / payao: Use this code when vessel is fishing around previously set and anchored FADs and payaos that it finds because they are marked on a chart

Helicopter codes: Only use helicopter codes if the helicopter is used directly for searching or fishing - not when it is running messages between boats or to shore.

Unless there is an accident every "H1" code should have a matching "H2" code.

<u>School assoc</u> and <u>detect codes</u> should be used whenever activity code "1", "8" or "9" is used.

<u>School Assoc</u>: Use the "School Association" code that best describes whether fish being targetted are with floating object, animal, feeding on baitfish or unassociated.

If it is an unusual association please comment and make notes in your diary.

Deploy - Beacon (to change only). Retrieve - Beacon (to change only)

If the vessel changes the beacon attached to a Fad, record the old and new beacon numbers using these activity codes.

<u>School Detect.</u>: Use a "How Detected" code to best show how fish were found. If more than one method was used then use the code that shows what first made the vessel change course to inspect the fish. (E.g.: If helicopter reports fish then vessel bird radar was used near to the reported position, use code "2" - seen from helicopter.

Did you Observe any Events that require Form Gen -3

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

			SO	UTH	PACIFIC	CRE	GIO	NAL	PURS	E SI	EINE	OBS	ERV	ER	FOR	M PS-3
							SE	T DE	TAILS	5						
	SPC/FFA DEC. 20 RVER NAME	002				VF S	SEL N.	AMF						PAGE	OF	
0502.							0221	7						17102	G.	
OBSEF	RVER TRIP I.D.	NUMBER	7			OF SET	DATE A	AND TIME YY	hh	mm			START	OF SET DATE A		nh mm
					ERVER: e PS-2)		IVIIVI	11		mm	VE	SSEL L	OG:	DD IVIIVI		nh mm
															<u> </u>	
F	VENT:	START	r of se	T	BEGIN PURS	SING		ND PURS	ING)	BE GIN			END	E ND (OF SET
	VENT.	(SKIF	F OF F)	(WINCH C	N)	(RINGS U	P)	ı	BRAILING	<u> </u>	В	RAILING	(SKIFF O	N BOARD)
,	TIME:															
					(;	a)				(b)				(c)		BRAILS (See
CUN	MULATIVE LAN	IDINGS		AL ONBO	l l	. т		LTONNA NEDTHIS (b)			T (N ONBO OT AL (a+			PS	S-4)
	SKJ - Y	VFT - R	_ :FT			mT	тнг	R SPE	TIFS		mT			mT		
CDEC				(T)	I CDE OIEC					5 L V	F.C.C.F.I					
SPEC		OBSE	CAT CH ERV.	(MI) VESSE	SPECIES L CODE	FATE CODI		CAT CH (mT)	NUMBEI OF FISH		ESSEL LOG			COMME	NT S	
					-											
					1											
					_											
										+						
					1											
						(Cirde	a one)									
Were	there any dis	cards of	f SKJ.	YFT or	BFT?	YES		How r	nany spe	cies o	other tha	n SKJ.	YFT or	BET were ca	uaht ?	
						ILB				\						
Tick t	o indicate the	school	associ				Fi	ree Scho		<u>) </u>	T	Floating Object School				
How	many tags red	covered	?		AG#			SPECIE	: S		LENGT	1		WEIGHT	SEX	
COMM	IE NT S															
					ECIES CODE			_						FATE COD		
S K J YF T	Skipjack Yellowfin tuna		ABU AMX	S erge Ambe	eant major riack		OCS BSH		cwhitetip naler shark			RWW RHG		d - whole weigh d - headed and		n only)
BET	Bigeye tuna		BAR	Barra	oudas .		F AL	Silkysh	ark			RGG	Retaine	d - gilled and gu	itted (kept for	٠,
BLZ	Blue marlin		CXS DOL	Bigey Mahi	e trevally mahi		MAK S P N	Mako si	hark erheadsha	rks		RPT RCC		d - partial (e.g. d - crew consur	•	ar ch
BLM	Black marlin		RRU		manı xow runners		T HR		erneadsna ersharks	1 1/2		ROR		d - dew consur d - other reasor		л (J)
MLS	S triped marlin		FLF	File fi			RHN	Whales				DTS	Dis carde	ed - too small (t	una only)	
SFA	S ailfis h	6 . /	TRI		er fishes		MAN	Manta r	,			DGD		ed - gear damaç		
SSP SWO	Short billed sp Broadbill swor		KYC MS D	Drum	mer erel s <i>c</i> ad		MOX	S unfis h				DVF DUS		ed - vessel fully ed - unwanted s		
3 440	PIOGUNII 2 WOL	MISH	PSC		o-warfish		S QU	Squid				DUS DS D		ea - unwantea s ed - shark dama	•	
ALB	Albacore		LOB	Triple			FRZ	•	and bullet	tuna		DWD		ed - whale dama	0	
BAT	B atfis hes		BRZ	Pomfi	ets and ocean				el (unident	,		DPA		ed - species of s	•	
FRI BLT	Frigate tuna Bullet tuna		MAM	Morio	e mammals		S HK T U N		(unidentifie ınidentified	,		DPD DOR		ed - species of s ed - other reaso	•	t - dead
KAW	Kawakawa		TTX		e mammais e turtle		TRE	•	ınıaenımea / (unidentifi	,		DFR		ea - oiner reaso ed trunk - fins re		only)
WAH	Wahoo		BRD	Bird (unidentified)		UNS	-	nidentified)			ESC	Es capeo		•	

NOTES ON Form PS-3

DETAILS

OBSERVER NAME	Prnt your first name first and last name last. Make sure to print. I.e.: "John Smith" not "Smith John".
VESSEL NAME	Vessels full name. No abbreviation, for example a vessel with the name "Captain Paul Smith should not be abbreviated to Capt P. J. Smith
PAGE OF	Number each PS-3 form in order of use, continue until trip is completed.
OBSERVER ID NUMBER	This number is issued before you leave port . It will be the same on all forms.
START OF DATE AND TIME (SEE PS-2	The exact date and time that you have recorded for this set on your PS-2
START OF SET DATE AND TIME	The exact date and time that the vessel has recorded for this set in their Regional Purse
(VESSEL LOG)	Seine Log Sheet

SET SEQUENCE

BEGIN SET (SKIFF OFF)	This will be the exact same time as recorded on your daily log and on the 'Details' section. (see above)
BEGIN PURSING (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.
END PURSING (RINGS UP)	During the winching, a bunch of rings will come on board. This indicates the net has totally enclosed (pursed) the fish and they cannot escape. When all the rings appear - record the time.
BEGIN BRAILING	Record the time the vessel starts the brailing process. This can be got from your PS-4 form
END BRAILING	Record the time when the vessel finishes brailing. (Put in a dash if no fish are caught)
END SET (SKIFF ONBOARD)	When the skiff comes on board the set is over. Record time. Remember the activity change on PS -2.

CUMULATIVE TOTALS

	To keep a running total of the catch on board copy the total catch before the set from box (c) of the last PS-3
CUMULATIVE TOTALS	form used, into box (a) of this PS-3 form. Total catch retained from this set then goes in box (b). Add box
	(a) and box (b) together to get a new total catch on board after this set and put it in box (c).

SUM OF ALL BRAILS

Sum of all brails (See PS-4)	After calculating the total number brails on PS-4 transfer your answer here.
------------------------------	--

SKJ - YFT - BET

Species codes	Only enter the three tuna species SKJ-YFT-BET in this column - when they are landed.
Fate Code	Enter best fate codes for each catch species here. Remember! - Use a new line for each fate. E.g.: In the same set, some SKJ could be RWW, while others are RCC, some others DTS and yet others DGD.
CATCH (mT) (OBS)	Use lengths from your PS-4 form and the workbook guidelines to calculate the weight of each species. If no brailing occurred I.e the 'Sum of All Brails' is zero, but some target catch was retained, record an eye-estimate for the retained catch here. Estimate discards.
CATCH (mT) (VESSEL)	Copy the figures recorded on the Vessel Logsheet. Do not change the observer figure to match the vessel figure and don't advise the vessel to change their figures to match the observer's if they are different. Only use (mT).

OTHER SPECIES

SPECIES CODE	Record every species that lands on deck with the three letter FAO species code.
FATE CODE	Use the fate codes provided to say what happened to each species that was landed. Remember some species will have more than one fate code so use more than one line for those species.
CATCH (mT)	Record the best estimate of each species caught, in each fate code category. 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
NUMBER OF FISH	If only small amounts of a species are landed record the numbers. Large amts are recorded in CATCH mt
VESSEL LOG	Copy the figures recorded by the ship's officers on the Vessel Logsheet, for this set. Place a zero in the column if they have not recorded the species.

QUESTIONS

Were there any discards of SKJ, YFT or BET ?	Circle Y if any Tuna were discarded after landing on board.
	Count the number of by-catch species landed. For example if wahoo, scad, trevally and rainbow runners were all landed during the set, put 4 in the box.
for this set:	If the set was made on a free school (feeding on bait fish or with no baitfish) tick the 'free school' box. If there was a drifting log, dead animal, live whale, drifting or anchored FAD or other floating object with the school please tick the 'floating object school" box.

TAGS

How many tags recovered ?	The number of tags recovered from the set. Keep an eye out for tags on Tuna and Billfish
TAG #, SPECIES,	When you recover a tag, record the Tag Number and the Species Name for the fish.
LENGTH, WEIGHT	Measure the correct length (with tuna it is Upper jaw to Fork length (UF)). If possible, weigh the fish.
SEX	If possible Sex the fish (cut it open if needed). Note tag colour and name of the tagging organisation.

		(SOUTH F	PACIFIC R				BSERVI	ER	FORM	I PS - 4
				L	ENGTH F	REQUE	NCY				
REVISED SPC/FF		OBSERV	ER TRIP ID NO). VESSEL NA	ME				TIME (see PS-2)	PAGE	OF
							D M M	Y Y	hh m	m	
or a	dicate if this is a length frequen	ency sam	ple. ———		Random Length Frequency Sample Sample					EACH SPECIES ORK IN TAIL (TUN, ORK IN TAIL (BILL S OF WINGS - (RA	FISH) AYS)
START B	RAILING TIME	END	BRAILING TIN	ME NO OF BR	AILS SAMPLED	NO OF SAMP	LES PER BRAIL	CL - 0	TIP OF SNOUT TO CARAPACE LENGT SURING INSTRU	H (TURTLES)	FORK FAIL)
BRAILS BRO		L	3/4 [BRAILS	1/2 BRAI	LS	1/4 BRAILS	ТОТ	AL NO. OF BRAII	LS SUM OF A	LL BRAILS
SPECIES	LENGTH	SPECI				SPECIES	LENGTH	SPECIES	LENGTH	SPECIES	LENGTH
CODE 1	(cm)	COD 26	E (cm	51 CODE	(cm)	CODE 76	(cm)	CODE 101	(cm)	CODE 126	(cm)
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	
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	
			Т.	DOET SDEC!	=e			OTHER	SDECIES		
s pecies con	sefigures to ge nposition for mix ecies sets.		SKJ	RGET SPECII YFT	BET			UTHER	SPECIES		

Number sampled :
Sum of lengths :
Average length :

LENGTH FREQUENCY

OBSERVER NAME
OBSERVER TRIP ID
Use the number assigned to you by your observer programme e.g. AA 03-01
PAGE OF
VESSEL NAME
START SET DATE & TIME
Put you first name first, and your last name last,
Use the number assigned to you by your observer programme e.g. AA 03-01
Number all the PS-4 forms together. Number them in sequence until the end of the trip.
Full name of vessel (no abbreviations)
Record date and time that ship is using exactly as it is recorded on Forms PS-2 and PS-3.

DETAILS OF SAMPLING

RANDOM SAMPLE	Tick and randomly select 5 fish from every brail. Record their length measurements.
DISCARD SAMPLE	Tick and randomly select as many of the bycatch species you can after brailing has finished.
COMMENTS ON PROTOCOL	Explain exactly how you did your sampling. How many fish you took. Were their any problem?
BEGIN / END BRAIL TIME	Record the time the first brail and last brail of fish are released into the hopper or chute.
NO OF BRAILS SAMPLED	Record the number of brails you took fish from to sample.
NO OF SAMPLES PER BRAIL	Record the number fish you took from each brail to sample.
MEASURING INSTRUMENT	Mention if you used a callipers, a flat ruler / tape deck. Tape measures should not be used.
BRAILS BROUGHT ONBOARD	As the brails are coming onboard, keep a tally of every full, ¾, ½, and ¼ brails you see.
TOTAL NO. OF BRAILS	Simply add up every single brail that came onboard. Each brail counts as one.
SUM OF ALL BRAILS	You will have to do some calculations here. Use this formula. (where ? = Your tally figure).
	(?) Full brails + (?) x 3/4 brails + (?) x 1/2 brails + (?) x 1/4 brails = SUM OF ALL BRAILS
Species Code 1- 150	Place the species code (refer to the codes on form PS-3) of the fish you measured in the same
	order they were sampled.

A NUMBER SAMPLED	Write the total number of each species you have sampled in this data field.
B SUM OF LENGTHS	Add up the lengths for each species you have sampled and write the answer here.
C AVERAGE LENGTH	For each species divide the Sum of lengths (B) by the Number sampled (B) to get the average
	length of each species in your sample.

IMPORTANT POINTS ON THE SAMPLING PROTOCOL

- 1. Start with a Random Sample. Sample five fish from every brail that is brought onboard.
- 2. Spread your sampling throughout the entire brailing process. Take 5 fish from every brail. If you are having problems doing this (the brailing is too fast for instance) you can measure less than 5 fish per brail, but you must try to sample the same amount of fish from every brail. If you have any problems mention it in the comments section. Remember, if any bycatch species comes to hand when you choose your 5 fish, record them.
- 3. Always get a random sample from the brail, don't choose fish because they are the easiest size to handle.
- 4. Do not let crew select fish for you even though they are trying to assist.
- 5 Be sure to Identify the juvenile Yellowfin and Big-eye when sampling.
- 6. If you are using a deck tape ensure that one end of the tape is placed against a flat surface or has a nose block. Make sure the end of the tape starts at 0 cm.
- 7. If using a deck tape, make sure the fish is on the tape straight when measuring
- **8.** Do not measure damaged fish.
- 9. Record lengths to the nearest centimetre below e.g. a 69.9 cm fish will be recorded as 69 cm.
- 10. Don't forget to record the species code in the columns provided, especially when there is a change in species type.
- 11. When brailing is finished, start a new PS-4 page and tick **Length Frequency.** Then, try to get a selection of length measurements from <u>every species</u> that is still on the deck. If there are a lot of fish of one species type (wahoo for instance) randomly select the wahoo you measure so you don't end up measuring just large wahoo. Sample as many fish from each species type as you can comfortably manage. This will include any target catch discards SKJ-YFT-BET (when discarded for being too small for instance).
- **12.** Use the tables below to calculate the average weight of target species when you know their average length. (From C above)

INDIVIDUAL WEIGHT IN KGS. CONVERTED TO ESTIMATED MEASUREMENT IN CENTIMETRES (GUIDE ONLY)

Kgs	.5	1	1.5	2	2.5	3	3.5	4	5	6	7	8	9
Skipjack	<33	33-37	38-43	44-47	48 -50	51-53	54-55	56-59	60-63	64-66	67-69	70-72	73-74
Yellowfin	<33	33-38	39-43	44-46	47 -49	50-52	53-55	56-58	59-63	64-66	67-69	70-75	76-78
Bigeye	<33	32-37	38-41	42-45	46 -48	49-51	52-54	55-58	59 62	63-64	65-67	68-73	74-76

Kgs	10	11	12	13	14	15	16	17	18	19	20	21	22
Skipjack	75-76	77-78	79 -80	81-82	83	84	85	86					
Yellowfin	79-80	81-82	83-84	85 87-	88	89-90	91-92	93-94	95	96-97	98-102	103-105	106-108
Bigeye	77-78	79-80	81-82	83-85	86-87	88-89	90-91	92-93	94	95-96	97-98	99	100-101

Kgs	23	24	25	26	27	28	29	30	31	32	33	34	35
Yellowfin	109	110-111	112-113	114	115-116	117	118-119	120	121	121-123	124	125	126
Bigeve	102-103	104	105	106-107	108	109-110	111	112	113	114-115	116	117	118

Kgs	36	37	38	39	40	41	42	43	44	45	46	47	48
Yellowfin	127-128	129	130	131	132	133	134-135	136	137	138	139	140	141
Bigeye	119	120	121	122	123	124	125	126	127	128	129	130	131
Kgs	49	50	51	52	53	54	55	56	57	58	59	60	61
Yellowfin	142	143	144	145	146	147	148	149	150	151	152	153	154
Bigeye	132	133	134	135	136	137	138		139	140	141		142

SOUTH PACIFIC REGIONAL PURSE-SEINE OBSERVER VESSEL LOGSHEET and WELL LOADING RECONCILIATION (OPTIONAL)

FORM PS - 5 (Page 1)

REVISED SPC/FFA DEC. 1998 VESSEL NAME OBSERVER NAME																														
VESSEL NAME											OBSE	RVER	IAME									OBSER	RVERT	RIP ID				PAGE	OF	
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(SEE NOTES ON BACK	() SET	TIME	12	11	10	9	8	1	6	5	4	3	2	! 1	2	3	1	5	6	7	8	9	10	11	12	TOTAL			COMME NT	
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VESSEL LOGSHEET and WELL LOADING RECONCILIATION

(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

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 "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	LOGS	HEET					Р	ORT V	VELLS										STA	RBOA	RD WI	ELLS					OBSER	RVER'S	
(SEE NOTES DATE	ON BACK)	S E T DAT E		12	11	10	9	8	7	6	5	4	3	2	1		2	3	4	5	6	7	8	9	10	11	12	T OT AL	CUMUL. TOTAL	COMME NT S
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		15/03	1635	Ves	sel re	cordea	30 n	nT q	f SK,	I in i	ts log	sheet	today	with	no se	ensib	le set	ID i	nforn	ration	i ana	tonn	age d	oesn'i	t mat	ch pro	eviou.	: sets		_ from Lady Mac
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	TOT	ALS			0	50	20		40	40					80)					40	40		29	32	0			371	

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)).

Totals at bottom: When the page is finished add up catch in each well. Add all figures in a column. Don't forget to subtract the negative numbers for catch that was removed from a well. When the page is finished write each well total on the top line of a new page. Write "Totals carried over from page ?? in the comments column.

SOUTH PACIFIC REGIONAL PURSE-SEINE OBSERVER VESSEL LOGSHEET and WELL LOADING RECONCILIATION (OPTIONAL)

FORM PS - 5 (Page 2)

							_					_		_			_		_			•	_		,						` • ,
REVISEDS	PC/FFA DEC	C. 1998																													
VESSEL NA	AME											OBSEF	RVER N	IAME										OBSER	VER TI	RIP ID				PAGE	OF
OPSI	ERVER	1,000	SHEET					-	PORT '	WELLS	;									STA	RROA	RD W	FIIS					OBSE	RVER'S		
(SEE NOTE	S ON BACK)	SET	TIME	24	23	22	21				17	16	15	14	13	13	14	15	16	17				21	22	23	24	TOTAL	CUMUL.		COMME NT
	DATE TIME DATE TIME 24																														
														1		Ē															

T OT ALS

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

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- 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.

OBSEF	RVER	LOGS	HEET					F	PORT	WELLS										STA	RBOA	RD WI	ELLS					OBSEF	RVER'S	
(SEE NOTES DATE	ON BACK)	S E T DATE	TIME TIME	24	23	22	21	20	19	18	17	16	15	14	13	13	14	15	16	17	18	19	20	21	22	23	24	T OT AL	CUMUL. TOTAL	COMME NT S
03/03	0530	03/02	0600		40							Exaņ	nple	1												30		70	70	
04/03	0545	No re	cord						8			<u>Exai</u>	mple	2	1													8	78	
05/03	0840 }	04/03	1500						12			Exar	nnle	. ?														12	90	Logsheet entry
05/03	1740 }) 1500 						20	28		<u>Lxai</u>	ripic I	<u> </u>	I						40					10		98	188	was 100 mT
15/03	1635	No red	ord									Exan	nple	4										5				5	289	
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17/03					(-40)						<u>E</u>	xamı	ole 6	3	1											(-40)		0	371	transfer approx. 2100
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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)).

Totals at bottom: When the page is finished add up catch in each well. Add all figures in a column. Don't forget to subtract the negative numbers for catch that was removed from a well. When the page is finished write each well total on the top li

SOUTH PACIFIC REGIONAL	_ OBSERVER
VESSEL AND AIRCRAFT SIGHTING	S AND FISH TRANSFER LOG

	VESSEL AND AIRCRAFT SIGHTINGS AND FISH TRANSFER LOG	
REVISED SPC/FFA DEC. 2002		

OBSERVER NAME VESSEL NAME OBSERVER TRIP ID NUMBER PAGE OF

VESSEL OR AIRCRAFT SIGHTINGS

UT		OBSERVER'S		SSEL POSITION		SIGHTED VE	SSEL OR AIRCF	RAFT		COMPASS	DISTANCE			
DATE	TIME		N S		E W	INAIVIE	INTERNATIONAL CALLSIGN	FLAG	TYPE CODE	BEARING (degrees)	(Nautical Miles)	ACTIVITY CODE	PHOTO FRAME #	COMMENT

FISH TRANSFERRING AND BUNKERING

		OBSERVER'S	VE	SSEL POSITION		RECEIVING	S VESSEL		F	FISH TRAN	ISFERREI	D	TRANSFER	
DATE	TIME	LATITUDE	N	LONGITUDE	Е	NAME	INTERNATIONAL	TYPE	SKJ	YFT	BET	MIXED	CODE	COMMENT
		(dd° mm.mmm')	S	(ddd°mm.mmm′)	W	IVAIVIE	CALLSIGN	CODE	WGT.	WGT.	WGT.	WGT.	(T - S - B)	

VESSEL AND AIRCRAFT TYPE CODES

1 SINGLE PURSE SEINE 8 SEARCH, ANCHOR OR LIGHT BOAT

2 LONGLINE 3 POLE AND LINE

9 FISH CARRIER 10 TRAWLER

4 MOTHERSHIP

5 TROLL 6 NET BOAT

21 LIGHT AIRCRAFT 22 HELICOPTER

31 OTHER... (please specify) 7 BUNKER

FLAG COUNTRY CODES

• IF COUNTRY IS NOT IN LIST WRITE NAME OF COUNTRY

CN CHINA US USA JP JAPAN TW TAIWAN

KR KOREA

PH PHILLIPINES PA PANAMA HN HONDURAS

BZ BELIZE RU RUSSIA SG SINGAPORE LK SRI LANKA VU VANUATU

ACTIVITY AND TRANSFER CODES

 FISHING INCLUDES ANY RELATED ACTIVITY

FI FISHING PF POSSIBLY FISHING NF NOT FISHING

T TRANSHIPPING S SET SHARING B BUNKERING

• ALL DATES AND TIMES MUST BE UTC / GMT

FORM GEN - 1

ALL WEIGHTS MUST BE METRIC TONNES

VESSEL AND AIRCRAFT SIGHTINGS LOG and FISH TRANSFER LOG

Notes on **FORM GEN-1**

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 or fax, immediately you see such activity. All information about the vessel and its activities should be in the Telex or Fax. 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.

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.

impossible to work out, pu	t a dash in the particular box you are trying to complete.
DATE/TIME	Record the UTC/GMT Month Day and Time as given on the GPS.
LATITUDE DD MM.MMM	This will be available from the GPS and should be recorded as
LONGITUDE DDD MM.MMM	indicated on the monitor DD & DDD = degrees
	MM = minutes. MMM = decimal minutes.
NS & E W	The GPS will also indicate whether the latitude is North or South of the Equator. This is important. Do not forget to write "N "or "S" beside the position. The GPS also indicates whether you are East or West of longitude 180°. Don't forget to write "E" or "W" after the longitude.
NAME	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 visibly painted on the vessel.
FLAG	Try to determine the flag country; This is often written on the stern of the vessel.
TYPE CODE	The "Vessel and aircraft" type codes" are on front of Form. E.g.: purse -seiner = 1; longliner = 2; etc.
COMPASS BEARING	Look at the compass and get a bearing from your vessel to the position of the other vessel.
DISTANCE (NAUTICAL	You may require the use of the radar to get an exact distance to
MILES)	the vessel. If this is not possible estimate the distance.
ACTIVITY CODE	This is in relation to what activity is happening when you sight
	the vessel. If you are not sure write what you see in the
	comment column. If the vessel is bunkering or transhipping
	indicate this also in the comment column.
PHOTO FRAME #	Record the number of the photo frame from your camera if you
	have taken a photo.
COMMENT	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.

OBSERVER NAME	Put first name first, and last name last, and print name. in full.
VESSEL NAME	Put vessels full name; Names should not be abbreviated.
OBSERVER TRIP ID	This is the same number you used on Form 1. It was issued to
	you before you left port. It will not change for the whole trip.
PAGE OF	If there is more than one page for the trip, number each page.

FISH TRANSFER LOG RECEIVING VESSEL

NAME	Name of the vessel that is receiving the fish
INTERNATIONAL CALL-	The call-sign that is visibly painted on the vessel
SIGN	
TYPE CODE	Use the "Vessel and aircraft codes" on front of Form GEN-1 to
	describe what type of vessel is receiving the fish.

FISH TRANSFERRED

SKIPJACK WEIGHT	Total Weight of Skipjack that has been transferred
YELLOWFIN WEIGHT	Total Weight of Yellowfin that has been transferred
BIGEYE WEIGHT	Total Weight of Bigeye that has been transferred
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.
TRANSFER TYPE T OR	Get type of transfer from "Transfer codes" on front of Form.
S	
COMMENT	Comment about the transhipment (e.g.: method used; problems;
	destination of the fish; etc.)

CODE TABLES

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.
ACTIVITY AND	Describes the activity the vessel and the type of transfer made
Transfer Codes	T = Transhipping to a reefer or another vessel.
	S = Set sharing - when a vessel has too many fish from a set
	(usually the last set needed to fill all wells) and another
	vessel is invited to brail the remaining fish from the net.
	B = Bunkering - when a vessel is next a tanker to take on fuel
FLAG COUNTRY CODES	Codes for different countries from which a vessel may come. This
	is usually found from the country's flag on the vessel or the name
	of the country 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 JUN 23 YOU SIGHTED A KOREAN LONGLINE VESSEL FISHING AT LATITUDE 05:12 345S LONGITUDE 156:12.233E. THE NAME OF THE VESSEL IS MOONSHADOW, ITS CALLSIGN IS Q2344. IT HAS A LARGE GREEN STRIPE ON THE HULL, YOU HAVE TAKEN A PHOTO.

SOUTH PACIFIC REGIONAL OBSERVER FORM GEN - 2 SPECIES OF SPECIAL INTEREST								
OBSERVER NAME		VESSEL NAM	E		OBSERVER ID	NUMBER	PAGE	OF
Tick to indicate The species was:	LANDED ON	DECK	INTERAC	CTED WITH VESSE	EL'S GEAR ON	ILY	SIGHTED	ONLY
TIME LANDED (see				TION / SIGHTING	LATITUD			ITUDE E
DATE (dd/mm/yy)	TIME (00.00hrs)	DATE (de	d/mm/yy)	TIME (00.00hrs)	(dd°mm.m	mm') S	(ddd°mn	n.mmm') W
SPECIES CODE	SPECIES DESCRIP	TION						
			SPECIES	LANDED ON DECK	(:			
LANDED:	CONDITION CODE	CONDITION D	ESCRIPTION					
DESCRIBE ONBOAF	RD HANDLING				LENGTH (cm	n) LEN	GTH CODE	SEX (M-F-I-U)
DISCARDED	CONDITION CODE	CONDITION D	ESCRIPTION					
		INTERACT	TIONS WIT	H VESSEL OR VES	SEL GEAR:			
VESSEL'S ACTIVITY START OF	OURING INTERACTION CODE		DESCRIPTION	DN END OF	CONDITION	THER (spe		DESCRIPTION
INTERACTION: DESCRIBE THE INT	 ERACTION			INTERACTIO	N:			
			SPE	CIES SIGHTED:				
VESSEL'S A	CTIVITY WHEN SIGH	HTED → S	SETTING	HAULING TRAN	ISITING C	THER (spe	cifiy)	
				LES ESTIMATE THE OV				
DIST. FROM VESSI	EL (NM) SPECIES B	 EHAVIOUR WI	HEN SIGHTED)				
				TAGS				
	RETRIEV	ED			PL	ACED		
TAG NUMBER	TYPE	ORGANI	SATION	TAG NUMBER	TYPE		ORGANISAT	TION
	•	SPF	CIES OF SI	PECIAL INTEREST	ARE:			
ALL <u>TURTLES</u>	(TUR)	<u> </u>		E MAMMALS (MAM)	<u>-</u> .			
LOGGERHEAD				WHALES (ODN)		S DOLPHIN		
LEATHERBACK GREEN TURTLE	, ,			LER WHALE (FAW) INED PILOT WHALE (SI		ENOSE DO ON DOLPHI	LPHIN (DBO) N (F43)	
OLIVE RIDLEY				LER WHALE (KPW)		ER DOLPHI		
HAWKSBILL TU				AD WHALE (MEW)	SPOTT	ED DOLPHI	IN (DSP)	
ALL <u>BIRDS</u> (BR	D)		WHALE SH	ARK (RHN)				

l

SPECIES OF SPECIAL INTEREST

Vessel Name	Observer Name	Print your name in full. First name first, then your family name (e.g "John Masa").							
This is the number issued by your observer programme. It will be the same for the entirip. Number all the GEN-2 forms together in sequence. Continue until the trip is complete. THE SPECIES WAS: Tick to indicate the final encounter the species of special interest had with the vessel. For instance, if you sighted a specie that was subsequently landed, tick landed only. Time landed For species which were landed on deck, note the start of set time that you recorded on your IPS-2 or PL-2 forms. For IL note the actual time of landing as noted on your IL-14. Time of interaction/Sighting Position (Latitude /Longitude) Species Code Use this field to describe some of the identifiing features of the species was sighted or interacted with the gear only, note the position the vessel was in when you first saw the species. Species Description Species Description SPECIES LANDED ON DECK: USE THE FOLLOWING CONDITION CODES A0 - Alive. But you are unable to further categorise its condition. A2 - Alive, but injured or distressed. A3 - Alive, but unifuled to five. A5 - Entangled, okay. A6 - Hooked, externally, injured. A6 - Hooked, externally, injured. A7 - Hooked, internally, injured. A8 - Hooked, internally, injured. A8 - Hooked, unknown, injured. Condition description Write a description of the condition of the species when landed / discarded. This may he use for the species when landed / discarded. This may he use for the species of the species when landed / discarded. This may he can be also with the species when landed / discarded. This may he can be also with the species when landed / discarded. This may he can be also with the vessel of the species when landed / discarded. This may he can be also with the vessel of the species when landed / discarded. This may he can be also with the vessel of the species when landed / discarded. This may he can be also with the species when landed / discarded because when landed / discarded because when landed / discarded because when landed / discarded because when									
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SOUTH PACIFIC REGIONAL OBSERVER VESSEL TRIP MONITORING RECORD

REVISED FFA DEC. 2002

This form <u>must</u> be filled in for every trip

	THUSE DE HINCU II	Tior every trip			
DBSERVER NAME	VESSEL NAME		OBSERVER TRI	P ID NUMBER	
During the trip did the Master	or crew of the ve	essel attempt or do	any of th	e followi	ng:
buring the trip that the Musici	of elew of the vo	sser accompt of a	uny or un	Yes	No
• RECORD INACCURATE POSITIONS ON THE	VESSEL LOGSHEE	т			
• FISH IN AREAS THAT WERE NOT COVERED	D BY ANY LICENCE	OR ACCESS AGREEM	ENT		
• MIS-REPORT CATCHES IN THE VESSEL LO	GS OR WEEKLY RE	PORTS.			
• NOT REPORT CATCHES OF COMMERCIAL	SPECIES				
• NOT RECORD CATCHES OF BYCATCH AND	DISCARDS				
• TARGET SPECIES OTHERS THAN THOSE T	HEY ARE LICENSE	TO TARGET			
• USE A FISHING METHOD OTHER THAN THE	ONE THEY ARE LI	CENSED TO USE			
• CATCH SPECIES OFSPECIAL INTEREST					
BREACH MARPOL REGULATIONS					
• NOT REPORT TO NATIONAL AUTHORITIES	WHEN BUNKERING				
• TRANSFER FISH FROM OR TO ANOTHER V	ESSEL AT SEA				
• REQUEST THAT AN EVENT NOT BE REPOR	RTED				
• OFFICERS MISTREAT THE CREW					
• DID THE CAPTAIN OR CREW HINDER THE	OBSERVER IN ANYV	VAY			
IF YOU ANSWERED YES TO ANY OF INDICATE THE PAGE NUMBER OF YOUR DIARY					WRITTEN.
	ŌĒ	SERVER SIGNATU	RE		

This check form must be completed at the end of your trip. It is important to ensure that information you collect is kept confidential from the vessel and any other persons except the officers whom you report to when you get back to 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 not to report the illegal fishing which could land them in prison.

OBSERVER NAME Print your first name first, and your last name last

VESSEL NAME Print the vessels full name no abbreviations. For example, Captain Ivan Grimsby Korsakov should not

be abbreviated to Capt. I. G Korsakov

OBSERVER ID NUMBER This is the same number you used on Form 1 and were issued to you before you left port. It will not

change for the whole trip on any of the forms.

DID THE VESSEL DO ANY OF THE FOLLOWING

RECORD INACCURATE POSITIONS ON THE LOG-SHEET

The <u>vessel</u> log sheet should be filled out daily or after each set by the captain or a designated officer on the vessel. You have the right to ask for a look at this log at anytime (inspect this log at least once a day). Check the times the vessel is recording the position and see if it is the same position, you have recorded for the same time on your daily observer logs. Discrepancies of anything more than 3 miles should be reported and the distance noted in your report.

FISH IN AN AREA THAT THE VESSEL IS UNLICENSED

You should make yourself aware of the areas in FFA countries where a vessel is not permitted to fish.. Generally Internal waters, Territorial seas (12 miles from a land base line) and Archipelagic waters are off limits to most purse seiners, (exceptions do occur). Some countries such as Papua New Guinea has areas where you are not permitted to fish unless you are a specific type of vessel. The local fishery divisions will help, or FFA has listed in the US Treaty manual for US vessels the closures. These also apply to most DWFN Purse-seiners.

INDICATE POSSIBLE CATCH MIS-REPORTING

Is the vessel under reporting, over reporting or not reporting any of the sets that you have observed. This can be done for various reasons, however check the vessel logs daily to ensure all sets are recorded and the catch has been logged correctly. If your estimate varies by a large amount, be suspicious and keep an eye on what is occurring, and report this when you return.

ATTEMPT TO NOT REPORT CATCHES

You are to report any attempt by the vessel to not report any fish, shark and mammal species, retained or discarded. Please report, if a vessel reports all its main commercial species correctly, but are not reporting any by-catch that is being retained or discarded. Please report any attempt to not report commercial species that have been rejected because they are damaged, to small or are considered to be undesirable for other reasons. The vessel may not think recording discards is important, however it is a requirement that all species (not only commercial species) caught must be recorded correctly, whether they are retained or discarded.

TARGET SPECIES NOT LICENSED TO TARGET

The target species is mentioned on the vessel's fishing permit. Mostly' Tuna' will be the target species. You should note if the vessel spent time targeting a species other than what is marked on their permit. Did a vessel licensed for "Tuna and other species" target sharks for instance. Did they target reef fish? The licensed fishing method will be marked on the vessel's fishing permit. Make a note if they used a

USE A FISHING METHOD OTHER THAN LICENSED TO USE The licensed fishing method will be marked on the vessel's fishing permit. Make a note if they used a fishing method other than what is permitted by the fishing permit. The most common violation in this area is hand lining near a reef. Give a full description of what type of gear was used and what species, if any, were caught.

ATTEMPT TO RECORD A SPECIES AS DIFFERENT SPECIES.

There are a number of reasons a vessel may attempt to record a species as a different species. They may do this to report to a country that all the fish they have caught are not of high value. Whilst this is not a big problem with purse-seine catches as most species go for canning, some of the species can be used for sashimi and will bring higher prices. This in turn means there is a higher value on the catch than reported.. However, if it is not reported correctly, then the licence fee can only be determined on the lower value. Common occurrences of this are recording Bigeye as Yellowfin, recording both Big Eye and Yellowfin as Skipjack. Purse seiners often record small Big-eye as Yellowfin because they bring the same price at the cannery. Report this if it occurs, and give your estimates of each species in the catch.

CATCH OR ATTEMPT TO CATCH SPECIES OF SPECIAL INTEREST This includes all species of Whales, Dolphins Turtles, Dugongs and Seals. If the vessel <u>deliberately sets</u> on any marine mammal, write a short report on the fate of this animal. For example, if the mammal escaped by own its means or was hauled aboard in a distressed or deceased state. Often the animal is released or escapes unharmed. You should report if the animal was released unharmed or released injured. Anything to report about the vessels' attitude to the animal is important. All deliberate catches and accidental catches of marine mammals should also be reported in the daily set logs Form 3.

ANY BREACH OF MARPOL

MARPOL is an international Convention for the prevention of pollution from ships. Rubbish thrown overboard into the sea represents a threat to all marine life and to other vessels.

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 unprocessed perishable garbage within 12 nautical miles of land or a reef.

If a vessel is within 12 miles of land then no unprocessed rubbish is permitted to be discharged over the side. If the vessel is more than 12 miles then only food scraps, paper, glass, metals or crockery is permitted. If the vessel has a processor or grinder on board then only perishable processed rubbish (No plastics) may be dumped up to 3 miles from land. Report in the comments what the vessel does with its rubbish and whether the vessel has an incinerator on board.

SOUTH PACIFIC REGIONAL OBSERVER

FORM GEN-6

				PU	LLUII	ON KI	EPUR	(I			
REVISED BY SPC/FFA DEG	C. 200	2	Fill	l in one f	orm for	<u>each</u> p	ollutio	on incident			
OBSERVER NAME				VESSEL	NAME			OBSERVER ID	NUM	IBER	PAGE OF
	UTC										
DATE OF INCIDEN (dd/mm/yy)	NT	TIME 00.00 hrs		LATITU (dd°mm.n		N/S	1	ONGITUDE d°mm.mmm')	E /	'S	EEZ / HARBOUR
WIND DIRECTION	N	WIND SPEED		SEA COND C - S - N		CURR	RENT : (F	knts and direction	°)	OBSE	RVER'S VESSEL ACTIVITY
NAME OF OFF	-EN[DING VESSEL	<u> </u>	IRCS	TYP	E OF VE	SSEL	YOUR POS	SITIC	N FROM	/ OFFENDING VESSEL
								Compass E	3earin	ng	Distance (nautical miles)
				WAS	TE DUM	PED O\	/ERBO	ARD			
Material	Υ	N	De	scribe Typ	е			[Desc	ribe Qu	antity
Plastics	Υ	N									
Metals	Υ	N									
Waste Oil	Υ	N									
Chemicals	Υ	N									
Old Fishing gear	Υ	N									
General Garbage (within 12 miles of s horeline)	Υ	N									
				OIL SI	PILLAGE	S AND	LEAKA	AGES			
Source			Υ	N V	sual Ap	oearan	ce / Cc	olour	Des	cribe A	Area and Quantity
Vessel Aground	/ Co	Illision	Υ	N							
Vessel at Anchor	r/B	erth	Υ	N							
Vessel Underway			Υ	N							
Land based sour	ce -	Describe source	Y	N							
Other - Please speci	fiy										
■ Were there ar	ny s	tickers / posters	dis	played to	remind	the ves	sel ab	out the MARF	POL	Regula	ations? Y/N
Was the Capt	ain :	aware of the MA	ιRΡ	OL Regu	ılations	?					Y / N
				_			did you	advise the Ca	apta	in of th	ese infringements
		Y / N	1	NP (NF	=Not Po	ssible	due to	language bar	rier)		-
· Did you take a		photos? Y/N	lf	yes state	the pho	to fran	ne num	nber -			
Other comments	;										
	ı	t is illegal for an	v ve		<i>RPOL Ro</i> scard ar	_			ea a	at anvti	me.

It is illegal for any vessel to discard any form of oil into the sea at anytime.

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 you run out of pages report this on your last form and continue recording pollution infringements in your diary.

Observer Name	Put your 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 to you by your observer programme e.g. AA 03-01
. 490 0.	Number all GEN-6 pages together. Number them in sequence until the trip is finished

Date of Incident (dd/mm/yy)	Report the UTC date your saw the pollution. Use the format outlined
Time (00.00 hrs)	Report the UTC time. Use the 24hr clock.
Latitude / Longitude	Record the GPS positon of your vessel when you first saw the pollution.
EEZ / Harbour	Write in the EEZ or for shorebase staff mark port or Harbour name here.
Wind Direction	The prevailing wind direction. Use degree eg. 90 degrees for a SE 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 your vessel activity at the time of the pollution incident.
Observer's vessel activity	Some acitivities you might like to consider are fishing, transhipping, bunkering,
	transitting, aground.

Name of offending vessel	Make an effort to write down the complete and proper name of the offending vessel. Be careful not to make any spelling mistakes which may make it
IRCS	difficult to prosecute the vessel, should the report go through legal proceedings. 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 your GEN-1 page.
Your positon from offending vessel.	Use the vessel's compass to gauge the direction of the offending vessel from your vessel. You can use the radar to get the extact distance, in nautical miles, is away from your vessel - otherwise give your best estimate.

WASTE DUMPED OVERBOARD					
Material	Circle the Y / N to indicate which type of material was dumped. Only tick more than two materials if the vessel has dumped more than one material type over at the same time e.g. it dumped plastics and metals at 10.00 hrs. If plastics were dumped 10.00 hrs and some metals at 16.00 hrs - record these separately.				
Describe type	Do your best to describe the type of material that was dumped e.g normal plastic bags, plastic strapping from bait boxes, plastic bags from bait boxes etc.				
Describe Quantities	Give us your best estimate of the amount dumped. Sometimes this will be easy to do e.g. 12 metal oil drums were dumped. Other time you might be too far away to see the amount. If you can only give an estimate, mark this down.				

OIL SPILLAGES AND LEAKAGES					
Source	Circle either Y or N to indicate where the spillage or leak came from				
Visual Appearance / Colour	Do your best to describe the colour/ thickness/depth of the spill				
Describe Area and Quantity	Give your best estimate of the size of the spill, use the boat as a size reference				
Describe Area and Quantity	if you want 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' (a machine that shreds garbage to tiny pieces) onboard, 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	MH: Marshall Islands
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
KI: Kiribati	TV: Tuvalu
KR: Korea	US: United States
CN: Mainland China	VU :Vanuatu
MY: Malaysia	WS: Western Samoa

APPENDIX 8. SOUTH PACIFIC REGIONAL UNLOADING AND PORT SAMPLING FORMS

- 1. Longline Unloading Form
- 2. Longline Port Sampling Form
- 3. Purse-Seine and Pole-and-Line Unloading Form
- 4. Pole-and-Line Port Sampling Form
- 5. Purse-Seine Port Sampling Form
- 6. Purse-Seine Well Loading Form
- 7. Troll Port Sampling Form

SOUTH PACIFIC REGIONAL LONGLINE UNLOADING FORM										
REVISED SPC/FFA, DEC., 2000										
PORT	COMPLETED BY	MONTH	YEAR	PAGE	OF					

UNLOADING	INFORMATIO	ON ON THE VECCE		NUMBERS AND WEIGHT OF EACH SPECIES IN CATCH									C 2 OTHER 3	OTHER 4
DATES	INFORMATIO	ON ON THE VESSEL		YFT	BET	ALB	BLZ	MLS	BLM	SWO	OTHER 1			
FIRST DAY	NAME	FLAG	EXPORT											
			No.											
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	REG. No	AGENT	LOCAL											
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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 DATES

<u>START</u> The day date on which the longliner began unloading

END The day date on which the longliner finished unloading

INFORMATION ON THE VESSEL

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

REG. No. 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

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

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

No. 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

BLZ 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)

SHK 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 start and end dates of unloading, the vessel name, registration, flag and agent should still be recorded.

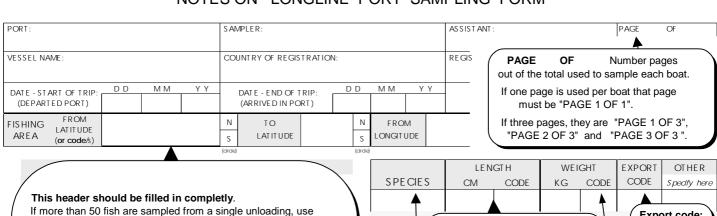
SOUTH PACIFIC REGIONAL LONGLINE PORT SAMPLING FORM REVISED SPC/FFA: DEC 2002 PORT: SAMPLER: ASSISTANT: PAGE OF VESSEL NAME: COUNTRY OF REGISTRATION: REGISTRATION NUMBER:

DATE - START OF TRIP: D D M M Y Y (DEPARTED PORT)	DATE - END OF TRIP: D D M M Y Y (ARRIVED IN PORT)	DATE OF SAMPLE:
FISHING FROM LATITUDE AREA (or code/s)	N TO N FROM S LATITUDE S LONGITUDE	E TO E W
LENOTH WE	(drde) (drde)	(circle) (circle)
SPECIES CM CODE KG	IGHT EXPORT OTHER SPECIES	LENGTH WEIGHT EXPORT OTHER CM CODE KG CODE CODE
1	26	SW SODE NO SODE
2	27	
3	28	
4	29	
5	30	
6	31	
7	32	
8	33	
9	34	
10	35	
11	36	
12	37	
13	38	
14	39	
15	40	
16	41	
17	42	
18	43	
19	44	
20	45	
21	46	
22	47	
23	48	
24	49	
25	50	
CIRCLE "Y" OR "N" TO ANSWER (see notes on back for assistance)	MMENTS: IF UNABLE TO RECORD UNMEASURED FISH and other COMMENTS	HABOVE then TALLY and TOTAL THOSE FISH HERE:
UNLOADED AND ALL SAMPLED ? WERE ALL SWO, MIS. BI 7. BI M AND		

	SFA UNLOADED AND ALL SAMPLED?	N Eq	$_{ ext{B}}\colon FSH$ WWWWWWWW/= 4	11			
Ξ							
	BILLFISH LENGTH CODES		OTHER SPECIES LENGTH CODES		WEIGH	IT CC	DDE S
ſ	LF LOWER JAW TO CAUDAL FORK	UF	UPPER JAW TO CAUDAL FORK	ww	WHOLE WEIGHT	GX	GUTTED, HEADED, TAILED
ı	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	NN	NOT MEASURED	GT	GILLED, GUTTED, TAILED	NM	NOT MEASURED

SPECIES	YFT	BET	ALB	SWO	MLS	BLZ	BLM	SFA	OTHER SPECIES
NUMBER									
SUMLENGTHS									
SUM WEIGHTS									

NOTES ON LONGLINE PORT SAMPLING FORM



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) and assistant (person writing measurements on form), if there is one.

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. } So put a "0" in front of single digit dates. Date of Sample 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.

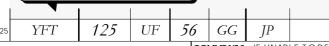
Country of Registration (flag) and Registration Number: The country in which the vessel is registered and registration number that country issued to the vessel. This may be on the vessel bow. If not then check the registration papers somewhere on the bridge

Important!

Try to record every fish even if you are unable to sample 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 *)

Typical example of an entry for yellowfin landed for export to Japan



Y(N)

(for no) for each of the above questions.

If only a few fish are kept back for the crew then still answer "Y". Only circle "N" when several fish are being kept on board

to be off-loaded at another place or time for another market.

Length: (cm) must be rounded down to whole centimetres (e.g. 69.9cm is recorded as 69cm) (See "Length Codes" on front of form.)

Export code: "LO" for local only if fish is **not** to be exported. Else use one of the country codes below to show destination of

Species

SWO Swordfish

Sailfish

MAK Mako sharks

Silky shark

Mahimahi

RRU Rainbow runner

Sharks

Short-billed spearfish

Spanish mackerel

Group codes

Breams and pomfrets

Marlins, spearfish, sailfish

Sickle pomfret

SFA

SSP

FAL

DOL

COM

TST

BR7

BIL

SHK

SHF

LAG Opah

WAH Wahoo

Code Common Name Weight: (kg) must be recorded YFT Yellow fin to nearest kilogram BET Bigeye (e.g. 58.7kg is written as 59kg) ALB Albacore See "Weight Codes" SKJ Skipjack MLS Striped marlin on front of form. BI 7 Blue marlin BLM Black marlin

Country codes:

AS - American Samoa

AU - Australia

EU - Europe

HK - Hong Kong

HI - Hawaii

JP - Japan

N7 - New Zealand

TW - Taiwan

US - Mainland US

OT - Other

Shark fins (bags) N.B. Avoid using group codes if a species code will work

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

These questions MUST be answered CIRCLE "Y" OR "N" TO ANSWER (see notes on back for assistance)

WERE ALL THE YFT, BET AND ALB \bigcirc N UNLOADED AND ALL SAMPLED?

WERE ALL SWO, MLS, BLZ, BLM AND SFA UNLOADED AND ALL SAMPLED?

Circle "Y" (for yes)

COMMENTS: IF UNABLE TO RECORD UNMEASURED FISH ABOVE then TALLY and TOTAL THOSE FISH HERE: and other COMMENTS

Eg: When asked why no marlin unloaded the Captain said it was unloaded to Grabit Co.,

Fishtown on 2nd of March

Eq: FSH 燃燃燃燃燃燃/= 41

Important! - Always try to record unmeasured (NM) fish in above same section with measured fish. Only use this comments section, as with this example, when it is not practical to record each fish.

Example: Forty-one of these low valued species were rapidly unloaded to bins while other export species were being measured.

Number (Port sampler should always add these)

and Sum of Lengths Sum of Weights

(Adding these is optional for port samplers. Results are used by staff who enter data into computers, to check that they have made no mistakes)

Only add up for each species recorded on this form Don't include counts that you have in "Record Counts of Fish Not Sampled and Comments" box



		SOUTH PACIFIC	REGION	AL UNLOADIN	NG FOI	RM FO	R PURS	E SEINE	and POL	.E-AND-L	INE VES	SELS		
REVISED SPO	C/FFA: DEC. 200	2												
PORT			COMPLETED BY	(MONT H		YE AR		PAGE O)F
LOADIN	G DATES	NAME OF CARRIER,					ı	DETAILS OF CA	ARRIER VESSE	L	<u> </u>			
FIRST DAY	LAST DAY	COOLST ORE OR CANNERY	FLAG	REGISTRATION No.		SHIPPI	NG COMPAN	Υ	1	CAPTAIN	P	ERMIT No.	DESTI	NATION
IF ANS V	/ER IS YES	FILL THE OTHER FIELDS IN THAT LINE.	YES or NO	PORT OF LOADING /COOLST ORE NAME		G DAT ES END	SKJ	WEIGHT OF EA	CH SPECIES (I	mT) YFT/BET	SKJ / YFT BET	OT HER Sp.	TC	OT AL
1. WERE A	NY FISH ON	I BOARD WHEN VESSEL ARRIVED?												
2. WERE F	ISH LOADEI	D FROM A COOLST ORE AT THIS PORT ?												
	NO DATES	DET AUG OF UNIT	24 DING VE 66 F	-,	T D I D	DATEC	,	AVELOUT OF FA	OLLOPE OF C	Τ\				FULL OR
FIRST DAY	NG DATES LAST DAY	DETAILS OF UNLO NAME	FLAG	REGISTRATION No.	START	DATES END	SKJ	WEIGHT OF EA YFT	BET	YFT / BET	SKJ/YFT BET	OT HER S.p.	TOTAL	PART UNLOADING

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 county that the vessel is registered in (also called Vessel Nationality)
REGISTRATION No.
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 cool store started and the day it finished loading fish on to the corrier at this port.

The day the cool store started and the day it finished loading fish on to the corrier at this port.

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

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

<u>UNLOADING DATES</u> 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.

REVISED SPC/FFA: DEC. 2002 SAMPLER: ASSISTANT: PAGE VESSEL NAME: COUNTRY OF REGISTRATION: REGISTRATION NUMBER: D D ММ ΥΥ ММ ΥΥ ММ ΥΥ D D D D DATE AT START OF TRIP: DATE AT END OF TRIP: DATE OF SAMPLE: (departed from port) (arrived in port) FISHING FROM TO Ν FROM ΤO Ε

S

LONGITUDE

LONGITUDE

W

W

SOUTH PACIFIC REGIONAL POLE-AND-LINE PORT SAMPLING FORM

SORTING - VERY IMPORTANT!		WEIGHT O	F CATCH (K	G) from unloa	OTHER SPECIES			
TICK ONE BOX BELOW		SKJ	YFT	BET	YFT & BET	MIXEDTUNA		SIZE SORTED FISH
Not sorted before sample								SIZE CLASSES
Sorted by species only	\Rightarrow							Eg: 3 to 6 kg.
Sorted by size and species	\Rightarrow							1
Record weight of each species landed.	⇒							2
Record size class of sorted fish at right.								3

IF MEASURING SORTED CATCH

LATITUDE

AREA

- Record only ONE size class of fish in each column.
 Use two or more columns for each size class if necessary.
- AT THE TOP OF EACH COLUMN write in the size class which is recorded in that column

LATITUDE

IF MEASURING CATCH THAT HAS NOT BEEN SORTED

■ Be sure that the fish you measure are collected RANDOMLY from throughout the unloading.

SIZE =		SIZE _		SIZE =		S IZ E CLAS S	=	SIZE =		SIZE CLASS =	
SPECIES	LENGTH	CLASS =	LENGTH	CLASS = SPECIES	LENGTH	CLASS SPECIES	LENGTH	CLASS = SPECIES	LENGTH	SPECIES	LENGTH
CODE	(cm)	CODE	(cm)	CODE	(cm)	CODE	(cm)	CODE	(cm)	CODE	(cm)
1		26	(0111)	51	(0111)	76	(0.111)	101	(0.11)	126	(0111)
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	
Σ lengths		Σ lengths		Σ lengths		Σ lengths		Σ lengths	1	Σ 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
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.: <i>Skippy 3</i>)
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

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° x 5° 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.

- 1. 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.

\(\Sigma\) LENGTHS (= sum of lengths): - Add up lengths in the column directly above. This is used for data entry checking.

051505000													
PORT:	C/FFA: DEC	. 2002			SAMPL	ER:				ASSISTANT:		PAG	E OF
CARRIER	R OR CA	ANNERY:			VESSE	L NAME:				COUNTRY OF RE	GISTRATION:	REGISTR	PATION No.:
		om port)	D D M	М УУ		TE AT END O (arrived in p		D M M	YY	DATE C	DF SAMPLE:	D D	MM YY
SET DE	TAILS	(to be obtaine	d from Ves	ssel Logsheets)		<u> </u>	<u> </u>	1			1	
MONT H	DAY	LATITUDE ddmm.mm		LONGIT UI dddmm.mi		S CHOOL V AS S OC.	SET START TIME	S KIPJACH WEIGHT	YELLOV WEIG		OT HE R NAME	SPECIES WEIGHT	WELL NUMBER:
CAMDI	INIC ST	RATEGY (ver	vimportar	>t)		1	1						
				S - species of	romnosi	ition and le	nath freauer	ncv samn				MPLED WELL	NUMBER:
Correc				PECIES - leng				ioy samp		Record all weight etric tonnes (<u>MI</u>		VEIGHT OF FISH	
		LENGTH DAT		DIE C		C DE CIE C		CDECIEC		C DE OIEC		C DE CIEC	
SPE COI		LE NGT H	SPEC COI		GT H	S P E CIE S CODE	LENGTH	S PE CIES CODE	LENG	STH SPECIES CODE	LENGTH	S PE CIES CODE	LENGTH
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	
DAT A E	NTRY	VERIFICATION	ı	SKJ		YFT	BE	ΕT	OTHER		L ASSOCIATION sociated		aft, FAD or payao
NUMBE	R OF	EACH SPECIES	S							2 Feed 3 Driftin	ing on baitfish ng log, debris or	6 Live marine 7 Live whale:	e mammal
Σ LEN	GT HS	FOR EACH SP	E CIE S							de	ad animal ng raft, FAD or p	8 Other	

SOUTH PACIFIC REGIONAL PURSE SEINE PORT SAMPLING FORM

Notes for PURSE SEINE PORT SAMPLING FORM

Use the Purse Seine Sampling Form to record lengths of fish that are unloaded from purse seiners at the end of a trip. Only sample fish from the vessel wells for which good information about the sets put into them can be obtained. This includes position, time, and school association type. The wells to sample must have fish in them that come only from sets of the same association type, that are caught in the same general area at about the same time. Normally try to sample fish caught in a 5-degree by 5-degree square and landed during the same month.

If the sample from a single sampling session has more than 150 fish, use additional Purse Seine 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 achieve this place 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

ASSISTANT First and last name of person writing measurements, if different from the sampler

CARRIER OR CANNERY

Name of the carrier vessel or cannery to which fish are being off-loaded directly

VESSEL NAME Full name of boat (no abbreviations), with number if there is one (e.g.: *Skippy 3*)

COUNTRY OF REGISTRATION The vessel nationality

REGISTRATION No. A number issued to the vessel by the country of registration (flag country)

DATE OF DEPARTURE The date the vessel left port at the beginning of the trip

DATE OF ARRIVAL

The date the vessel returned to port at the end of the trip

DATE OF SAMPLE The day the sample was taken

SET DETAIL INFORMATION - get this information from vessel logsheets!

Fill in one line for each set that was stored in the sampled well. Get this information from vessel logsheets. The Well Loading Worksheet can also be used to help. See the Notes for Well Loading Worksheet.

It is very important to find out and record the set type (school association code) that sampled fish come from. Also make sure to record the Set Start Time exactly as it is recorded on the vessel log.

SAMPLING STRATEGY

Be sure to tick the correct box. This is very important.

Normal strategy is to take a "Random Species" sample. A port sampler collects specimens entirely at random from a mixed school (or a pure school) to get a sample to be used for species composition and length frequency analyses. Tick the upper box in this case.

If the port sampler collects fish of a particular species to measure, then it is <u>not</u> a species composition sample. Tick the lower box - "Non-Random Species - length frequency sample only" in this case.

Any other comments can also be included at the bottom of the "SET DETAILS" box.

<u>SAMPLED WELL</u> - Record the "WELL NUMBER" that was sampled and the "WEIGHT OF FISH IN that WELL". Record all weights in metric tonnes.

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.

DATA ENTRY VERIFICATION (do this now to help check that your data has been entered properly, later)

NUMBER OF EACH SPECIES Add up total number of each species recorded on this form

 Σ LENGTHS FOR EACH SPECIES (Σ = sum of) Add up the lengths of each species separately. Don't mix them.

SOUTH PACIFIC REGIONAL PURSE SEINE WELL LOADING WORKSHEET

REVISED SPC/FFA DEC. 200	00													
PORT:				SAMPLER:				ASSISTANT:				PAG	Ē	OF
VESSEL NAME:				COUNTRY OF REGISTRATION	N:			REGISTRATION	n number			,		
DATE AT START OF TRIP:	D D	ММ	ΥY	DATE AT END OF TRIP:	DD	ММ	ΥY	DATE OF	DD	ММ	ΥY			
(departed from port)				(arrived in port)				SAMPLE						

SET DATE	SET PO LATITUDE	OSITION LONGITUDE	SCHOOL ASSOC	SET START TIME	SKJ	YFT	SKJ + YFT	OTHER SPECIES	WELL No.
	Ermode	EGNGNOBE	7,5500	IIIVIL				3i EGIES	
			<u> </u>						

Notes for PURSE SEINE WELL LOADING WORKSHEET

The Well Loading Worksheet can be used to record information about purse seine sets and the wells in which the catch was stored in order to help find good wells for species composition and length frequency sampling. This is useful if there are going to be many wells sampled. It may also be useful when it is very difficult to find suitable wells for sampling and a port sampler needs to go carefully through the logsheet set by set. Normally, however, the sampler can collect enough information about the wells that they will sample directly onto the Purse Seine Port Sampling Form.

All dates are to be recorded using 2-digit number for each of day "D D", month "M M" and year "Y Y" in that order. To achieve this place a "0" in front of single digit numbers. E.g.: write the 3rd of January, 1996 as 03 01 96.

GENERAL INFORMATION

PORT The port of unloading

COMPLETED BY

The first and last name of the person who completed the form

DATE The date the form was completed VESSEL NAME The name of the fishing vessel VESSEL NATIONALITY The county of registration

PERMIT The permit issued to the purse seiner by the port country

PREVIOUS PORT

OF ENTRY

The port from which the vessel the began trip

DATE OF DEPARTURE The date the vessel left the previous port at the beginning of the trip

DATE OF ARRIVAL The date the vessel returned to port at the end of the trip

FISHING AREA The northern, southern, western and eastern boundaries of the fishing area, recorded to the

nearest degree of latitude and longitude

WELL LOADING DATA

Use this area to collect information about all successful sets (i.e., <u>not</u> for sets from which no fish were caught). The information needed is found in the Vessel Logsheets which should be made available by the captain / fishing master.

If the catch from a set is stored in more than one well and the amounts stored in each well are available, then the amounts stored in each well should be recorded on separate lines, one line for each well in which the catch was stored. For example, if the catch from a set is stored in three wells, and the amounts stored in each well are available, then the catch from the set should be recorded on three lines, one line for each well. If the catch is stored in more than one well, but the amounts stored in each well are not available, then use a single line and, in the well column, list all the wells used

DATE The date the set was made

LATITUDE The latitude at which the set was made, to the nearest minute, e.g. 2 23'S

LONGITUDE The longitude at which the set was made, to the nearest minute, e.g. 149 % 6'E

SCHOOL 1 Unassociated ASSOCIATION CODES 2 Feeding on baitfish

3 Drifting log, debris or dead animal
4 Drifting raft, FAD or payao
5 Anchored raft, FAD or payao
6 Live marine mammal

7 Live whale shark

8 Other

SKJ The amount (metric tonnes) of skipjack caught
YFT The amount (metric tonnes) of yellowfin caught

SKJ + YFT The amount (metric tonnes) of mixed skipjack and yellowfin caught, if they are not

estimated separately

OTHER SPECIES The amount (metric tonnes) of other species caught

WELL No. The number of the well in which the catch was stored, e.g. P2 (for well number 2, port

side). If the catch from the set was stored in more than one well, and the amounts stored in each well are <u>not</u> available, then list all the wells in which the catch was stored; e.g. *P2*, *S2*

(for port well number 2 and starboard well number 2).

SOUTH PACIFIC REGIONAL TROLL VESSEL PORT SAMPLING FORM

REVISED SPC/FFA DEC 2000 PORT: SAMPLER: ASSISTANT: PAGE COUNTRY OF REGISTRATION: REGISTRATION NUMBER: VESSEL NAME: DATE AT START OF TRIP: D D ММ DATE AT END OF TRIP: D D ММ DATE OF SAMPLE: D D ММ ΥΥ (DEPARTED FROM PORT) (ARRIVED IN PORT) FISHING AREA: FROM Ν TO FROM Ε TO Ε LONGITUDE LATITUDE LATITUDE LONGITUDE W SPECIES LENGTH **SPECIES** LENGTH **SPECIES SPECIES SPECIES** LENGTH LENGTH LENGTH **SPECIES** LENGTH CODE CODE CODE CODE (cm) CODE (cm) CODE (cm) (cm) (cm) (cm) 101 52 102 103 53 78 128 129 105 130 131 132 108 133 109 134 135 10 60 85 110 136 112 137 62 14 114 139 140 16 116 141 117 142 143 118 18 119 144 120 145 121 146 23 123 148 75 100 125 150 50 SPECIES: NUMBER: SUM OF LENGTHS: COMMENTS

SOUTH PACIFIC 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

PORTThe port of unloading

SAMPLER First and last name of person measuring the fish

ASSISTANT First and last name of person recording measurements, if different from

the sampler

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

Record dates using two digits for each of day, month and year, in that order (DD MM YY). Do this by placing a "0" in front of single

DATE AT END OF TRIP digit numbers.

DATE OF SAMPLE E.g.: write the 3rd of January, 1996 as "03 01 96".

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

SPECIES The following species codes are used:

ALB	Albacore tuna, Thunnus alalunga	MLS	Striped marlin, <i>Tetrapturus audax</i>
SKJ	Skipjack, Katsuwonus pelamis	BLZ	Blue marlin, Makaira mazara
YFT	Yellowfin tuna, Thunnus albacares	BLM	Black marlin, Makaira indica
BET	Bigeye tuna, Thunnus obesus	SFA	Sailfish, Istiophorus platypterus

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 69 cm). **All species** should be measured "from the tip of the <u>upper</u> jaw to the fork of the tail", **except billfish**, which should be measured "from the tip of the <u>lower</u> jaw to the fork of the tail". **Note:** 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 9. OTHER FORMS

- 1. Gamefish Tournament Data Sheet
- 2. Gamefishing Individual Vessel Logsheet
- 3. Fishing Trip and Port Visit Log
- 4. Papua New Guinea Cumpulsory Vessel Inspection and Checklist

Tournament - Individual Fish Weights Day and Striped Black Blue Sailfish Wahoo Dolphin fish Shortbill Spanish shark Yellowfin Dogtooth													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	box Skipjack tuna	Bigeye tuna	Other
//														
//														
//														
//														
-														
//														

Gamefishing Individual Vessel Logsheet - Troll (5 days)

Please complete - even if no fish are caught

Name, addr	ess and port	of person fill	ing out data s	heet:		Please record Vessel Name: Kept Released						Units of weight				
DATE	Time start	Number of	House Sahad	Number of												
ddimmiyy	fishing	lines fished	Hours fished	strikes	Species	Number caught	Species	Number caught	Species	Number caught	Species	Number caught	Species	Number caught		
						Flags Flag		Red Red		Resi Resi		Kapt Sol		Florit Field		
						Float		Rel		Red		Rapt		Floi		
						Piot		Piet.		Pai		Repl		Rest		
						Repa		Post Post		Fred Fred		Negl Nel	-	Rept		
DATE	Species	Weight	DATE	Species	Weight	DATE	Species	Weight	DATE	Species	Weight	DATE	Species	Weight		
ddimmiyy	Species	neight.	ddimmiyy	opecies	regit	dd/mm/yy	opecies	regin	dd/mm/yy	Operios	reigns	dd/mm/yy	Openios	reign		
	1															
	ļ															
												Species code				
								ļ					marlin			
	ļ											SFA Sail	k marlin ish			
	ļ												tbilled spearfish ed marlin			
												SWO Swo	rdfish			
								†					nish mackerel			
								ļ				DOL Mail TRE Trev	ii mahi (dolphin fi:	h)		
												SNK Ban	racouta			
	†					1		1					bow runner ojack tuna			
	ļ											DOT Dog	stooth tuna			
						1							wfin tuna			
						İ		†				BET Big SHK Shi	eye tuna ark			
								İ				OTH Oth				
												Does Does	Nease post results nic Fisheries Prog	ramme.		
	†					l		-				Secretarist of the Pacific Community,				
												PO Box D5 98848, Noumea Cedex, New Caledonia.				
												0	r Fax to: 687 263			
								-								

REV: SPC/FFA DEC 2002	SOUTH PACIFIC REGIONAL	FISHING TRIP AND PORT VISIT LOG	PAGEOF
-----------------------	------------------------	---------------------------------	--------

NAME OF VESSEL	COUNTRY OF REGISTRATION	INTERNATIONAL RADIO CALLSIGN
· · · · · · · · · · · · · · · · · · ·		
NAME OF FISHING COMPANY	REGISTRATION NUMBER IN COUNTRY OF REGISTRATION	GEAR TYPE (LLPLPSTR)

PERIO ACT	OD OF IVITY	FISHING TRIP AND	IF FISHING TRIP:	IF PORT VISIT:	
DATE FROM	DATE TO	PORT VISIT CODE	LOGSHEET PROVIDED ?	NAME OF PORT	COMMENTS
DD / MM / YYYY	DD / MM / YYYY	CODE	PROVIDED ?	PORT	COMMENTS
		-			
		-			
		IING TRIP AND PO			

- 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

Date:



PNG Licence

No:

Division of Monitoring, Control and Surveillance

COMPULSORY VESSEL INSPECTION and CHECKLIST

A: VESSEL VER	IFICATION	l									
Vessel Name:								Т уре:			
Flagging Arrangement:		Co	untry Registr	ation n	iumber:				International	l radio call si	gn (IRCS):
Company owner:					Country:						
Charterer:					Country:						
Vessel captain:					Nationalit	y					
Type of licensing arrangement:											
Vessel ownership arrangement											
B: VESSEL MAR	KINGS										
1. PNG license No. is	clearly disp	ayed on both	sides an	d top	of wh	eelho	ouse ?			Yes	No
Remarks:											
2. All utility boats (e.g to support its fishing		-					-			sel	
Skiff Yes	No n/a	Dinghies	(No. =)	Yes	No	n/a	F	lelicopter	Yes	No n/a
Tow boat Yes	No n/a	Speed boats	(No .=)	Yes	No	n/a	Other n/a	()	Yes No
3. Are this vessel's pa	yaos all clea	arly and perma	anently m	narke	ed corr	ectly	?		Ye	s No	

C:	ASSOCIA	TED SUF	PPORT	CRAFT (including carrier vesse	els)			
							Size	
		Name		Usage		Capacity if a fish carrier	GRT	LOA (m)
oats:	a)							
List support boats:	b)							
List sup	c)							
	d)							
	e)							
F	Helicopter:	Yes	No	Make:	Model:		Year:	

	SIZE CH										T					
Gross rec	gistered tonn	nage:		Net tonr	iage:	N	Maximum	n loading (:apacity: m	ηΤ	Total well volur	ne: (m3)	Vessel au	uis ing s peed	d:	kts.
Well	(hold) ca	apacity	and u	sage	(also g	jet C	aptain	to hav	e the a	ttach	ed well lay	out ma	p filled	out)		
	or Centre C" (eg: 1C)	m3	USA	AGE							nperature (°C) eezer hold)	Star- board	m3		US AGE	
	1											1S				
	2											28				
	3											3S				
>	4											4S				
Main deck	5											5S				
Mair	6											6S				
	7											7S				
	8											8S				
	9											98				
	10											10S				
												S				
deck wells												S				
Upper deck or more wells												S				
J P												S				
												S				

E: ELECTRONICS					COMMENTS.	USE
L. LLLCTKONICS			MAKE	MODEL	(use code - see * below)	CODE
NAVIGATIONAL RADAR # 1	Y	N				
NAVIGATIONAL RADAR # 2	Y	N				
BIRD RADAR	Y	N				
DEPTH SOUNDER # 1	Y	N				
DEPTH SOUNDER # 2	Υ	N				
SONAR	Υ	N				
Please dide "Y" or "N"						
for every item GPS	Y	N				
TRACK PLOTTER	Y	N				
RADIO BEACON DIRECTION FINDER	Υ	N				
RADIO BUOYS - NON CALL-UP	Υ	N			How many?	
RADIO BUOYS - CALL-UP	Υ	N			How many?	
SATELLITE BUOYS	Υ	N			How many?	
REMOTE ECHO SOUNDING BUOYS	Υ	N			How many?	
DOPPLER CURRENT METER	Y	N				
SEA SURFACE TEMP. GAUGE	Υ	N				
WIND SPEED / DIRECTION FINDER	Υ	N				
WEATHER FACSIMILE	Y	N				
NOAA WEATHER SATELLITE MONITOR	Y	N				
VMS (FFA TYPE-APPROVED)	Y	N			S eal intact? Y N	
FIXED BINOCULARS	Y	N				
SATELLITE / HF TELEX	Y	N			Telex number:	
FISHERY INFORMATION SERVICES			DATA SOURCE	USE CODE	* USE CODE	S

FISHERY INFO	RMATION SERVICES			DATA SOURCE	USE CODE
BATHYTHE	RMOGRAPH DATA USED	Y	N		
	ALTIMETRY DATA USED	Υ	N		
OT HER #1	()		
OT HER #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	Υ	N	Phone number:	Fax number:	E mail:

F: FISHING GEAR SPECIFICATIONS

F1: PURSE SEINE	YES NO - if "NO" then skip the rest of section "F1"								
SINGLE SEINER GROUP SEINER (dirde one) If this vessel is a group seiner then ensure that the names and the capacity of the associated carrier vessels are included in the ASSOCIATED SUPPORT CRAFT section (section C).									
POWER BLOCK	Make:	Model	R ated power	S heave diamet	cm				
PURSE WINCH	Make:	Model	R ated power	Hauling s peed	m/sec				
PURSE CABLE	S ection length (m): S kiff end S ection d'ameter (mm):	m mm	m	m	Seiner end				
NET SKIFF ENGINE	Make:	Model	Hors ep	ower:					
	Maximum net depth m	Maximum net depth	No. of net strips	Hanging ratio %:					
NET	Average mesh m	nm Net material:							
	Average mesh misize of bunt	Mes h type: Im (dirde one)	knotted	unknotted					
BRAILER	Т уре:	Capacity 1	Capadi mT	ty 2	mT				
FADs	Maximum No. of FADs used:	F AD materials:							
LIGHTS	Number us ed:	Туре:	Power:		kWt				
	Make:	Model	Registr	ation number:					
HELICOPTER	Effective kms.	Colour:							
COMMENTS:									

F2: LONGLINE		YES	ES NO - if "NO" then skip the rest of section "F2"									
		Materia	al:		T ype:				Diameter:	Length		m
	MAINLINE								mn	1		m
Possible materials indude: nylon, kuralon,			nline age:	(dirde one)		vessel bin		n	baskets		drum	
		Branchline average length m		Number o	2	ations: 3 4 de one)		Trace mc type:	nofilament			
Possible types indude: monolfilament, multi-strand twisted		Descrip	otion of	multi-s ection branchlin	es es	(urue	Orie)			(drac are)		
monofilament, braided	MAKE-UP of	Mainlii	ne end	S ection 1.	/	S ectio	on 2.	/_	S ection 3.	Section 4.	Ноо	k end
	BASKET (BRANCH	Material:										
Please drde	LINES and FLOATS)	Ту	pe:									
"Y" or "N" wherever possible		Ler	ngth:	m			1	m	n	ו		m
			um No. ks set:		Maximun floats s				Average length of float lines:			m
MAIN	ILINE HAULER	Y	N	MAINLI	NE SHOO	TER	Y	N	BAI	T CHUTE USED	Y	N
BRANCH	LINE HAULER	Υ	N	AUTOMATIC BA	IT THRO	WER	Y	N	TOF	I POLES USED	Y	N
TIME / DEPTH / TEMPERATURE RECORDERS (TDRs or MINILOGS) USED Y N SHARK LINES ON FLOATS						Υ	N					
F3: PRAWN TRAW	71	VES	NO		if "NC)" th	on s	kin tl	he rest of sec	tion "E3"		
WINCH Make: Warp length Average r size of b			NO		Model	<i>,</i> (11	CII S	rip ti	Rated power	Hauling speed		
										3.4		m/sec
			m	No. of tr				T otal No trawl net on board	5			
				n mm	Mater of net b							
		Averag size of	je mes h codend		Mater of code							
F4: OTHER FISHING GEAR SPECIFICATIONS - please specify						.)						
GILLNETS	Y N	V	ERTIC.	AL LONGLINES / DR	OPLINES		Y	N		OTHERS		
BOTTOM LONGLINES	Y N	FISH TRAPS				Y	N	()	Y	N	
HANDLINES	Y N	TRAWL NETS			Y	N	()	Υ	N		
Brief description of gear includin	ng numbers of ea	ach type,	basicn	naterials and lengths, o	depths , if a	approp	riate:					
Name of Captain or Person-in-Charge, if not the Captain				Position of Person-in-Charge, if not the Captain								
I, as the above named Captain / Person-in-Charge, agree that the above details are an accurate				Y	es	No						

(arde one)

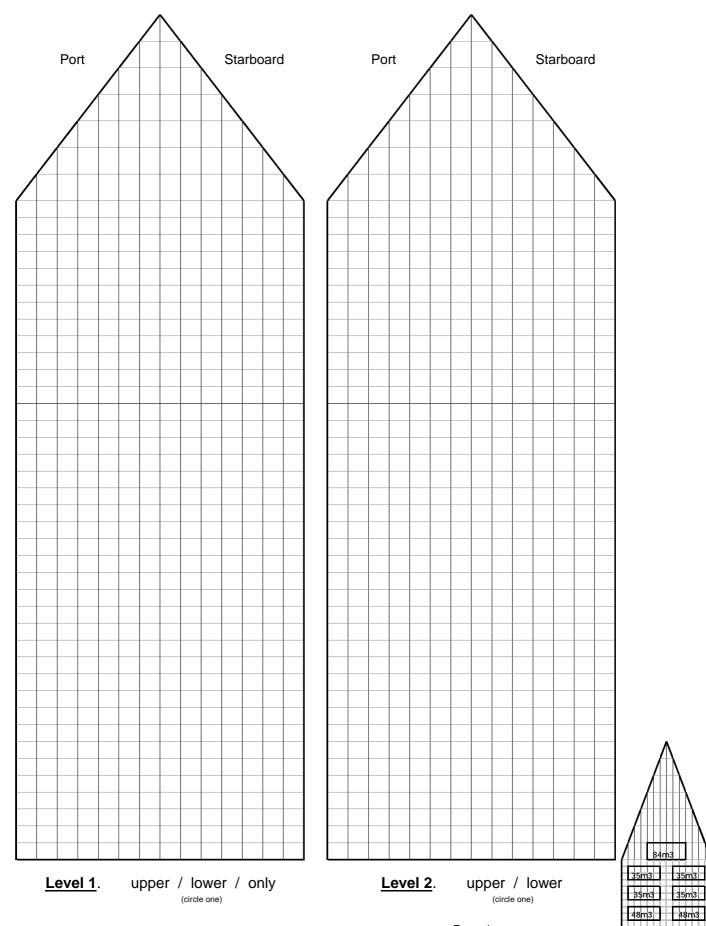
Signature of Captain or Person-in-Charge

description of this vessel at time of this inspection.

1.	I ICANSA ON NOSTO .	or is a copy of the se on board?	or	iginal	copy (drde one)	none		
2.	Crew Vessel licensed to carry total of:	Number of citizens (PNG Nationals):	Vessel's crew number at inspection time:					
3.	<u>License conditions and endorsements</u> - It a) the Conditions on the back of the license	·	on-in-Char	ge read a	nd understoo	d		
	b) the Special Conditions, Prohibited Areas (c) the Endorsement to License (attachment of the Endorsement to License)		Yes (drde	No one)	Signature of Captain or Person-in-Charge			
4	d) the Requirements for Markings?	hanna anna dha tala P		aliai a a a a a a				
 4. <u>Transhipment</u> - Is the Captain Person-in-Charge aware that the license conditions require a) the Captain / Person-in-Charge to request permission to tranship fish or to re-provision 72 hours in advance (Condition 5 - Attachment D) 								
	b) that once permission has been granted th or NFA Fishery Officer must be on board		(drde d	one)	Signature of Captain sioning can st			
5.	<u>Catch recording</u> - Does the Captain / Person	on-in-Charge know he i	s respons	ible to ens	sure all catch	is recorded		
	a) daily on the Logsheets supplied by NFA ?b) using his own or his Master Fisherman's best estimate of			No one)	Signature of Captain	or Person-in-Charge		
	total catch and of the catch composition	_		,				
6.	Formal Clearance - Does the Captain / Pera) on entering PNG waters before meeting a	Ī	e must rep Yes	ort to port	for formal cle	earance:		
	b) before departing the country, after the last				Signature of Captain	or Person-in-Charge		
	reprovisioning or other meeting with any o		, , , , , , , , , , , , , , , , , , ,					
7.	Offences and Penalties - Is the Captain Pe	erson-in-Charge aware	that:					
		failure to comply with these and any other terms and conditions of the License, National Laws and Regulation may, in addition to any judicial penalties that may be incurred, result in the suspension or loss of the license						
	b) as Captain / Person-in-Charge of the vess	Yes	No	65				
	for offences under the Fisheries Manager	_	dirde dany		Signature of Captain Conditions.	or Person-in-Charge		

G: AWARENESS of PNG LICENSING CONDITIONS, REQUIREMENTS and PROHIBITIONS

ACTIONS TAKEN				
Major discrepancies identified				
2. Compating actions tales				
2. Corrective actions taken				
CERTIFICATION				
In accordance with section 48 of the Fisher	eries Management A	ct, 19		
I,, a ga	zetted Fisheries Offic	er of the National Fish	neries Authority, do declar	e
that I have inspected the vessel,and I am satisfied that all necessary requirer			at	
All the conditions of the license were fully exp who signed the below statement to the effect complied with.	•			
This vessel was or	n	at		
(write in "cleared" or "not cleared")	(date)	at	(port)	••••
(signature of Fisheries Officer)			(signature of Witness)	
STATEMENT				
, (name of Captain or Person-in-Charge)		position held)		
of the fishing vessel,			and what the Fishery Offic	:er
has explained today and will comply with the			and making rienery eme	
				ı
				ı
	(signature of Cantai	n or Person in Charge)	(date)	ı



1. Mark (outline) each well (hold) in its position on the vessel.

Example:

<u>Deck 1</u>. upper / lower /

2. Indicate the capacity for each well in cubic metres (m3).

3. If there is one level of wells (most vessels) use "Level 1" maps above and circle "only".

If some wells (holds) are over the top of other wells use "Level 1" and the "Level 2" maps.

Circle the word "upper" or "lower" on each map to show if wells are on top or underneath.

47m3 35m3 48m3 35m3 35m3 35m3 25m3 25m3