# WCPFC ROP Minimum Standard Data Fields & Instructions.

**The format of how these data fields will be presented for collection by observers is up to the observer programmes to develop; however if providers need a format to use as a guide that includes all the fields in this set of minimum data standard fields. The FFA/SPC have developed forms and formats that are used by many programmes already, these are available on the SPC Website under the Oceanic Fisheries Programme (OFP) and could be adapted to suit your programme.**

**Unless otherwise instructed when entering any field on any observer form, please make sure you;**

- **print all names fully, in English, do not abbreviate unless told to do so;**
- **use the best codes where indicated;**
- **make sure every forms is labelled with at least your name and trip number;**
- **if there is no information available for a field or its not applicable, please place a dash in this field, leaving it blank does not tell the data entry persons if you just forgot to fill the field in, or if there is no available information;**
- **make sure that all Yes/No are circled;**
- **all units of measure or power should be clearly indicated (circled);**

| GENERAL VESSEL AND TRIP INFORMATION FOR ALL VESSEL TYPES | |
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| **VESSEL IDENTIFICATION** | |
| Name of vessel | Name must be clearly written, make sure any numbers connected with the name are included. i.e. "Moonlight No 6" |
| Flag State Registration Number | This number will be sourced from the vessel papers. You can normally get this information during the briefing. |
| International Radio Call Sign | The vessel call sign is usually issued to the vessel by the flag State in accordance with IMO regulations and procedures. This can become the WCPFC identification number of the vessel |
| Vessel Owner/Company | Name and contact if possible of the owner of the vessel, if it is owned by a company, then use the company name. |
| Hull markings consistent with CMM 2004-03 | The hull markings should be consistent with CMM 2004-03; these are virtually the same as the FAO standards on vessel markings except that a few letters disallowed in the FAO standards are permitted in CMM 2004- 03 standards. |
| WIN markings consistent with CMM 2004-03 | If the vessel does not have an IRCS number, the flag State must create and issue a "WCPFC Identification number" or WIN number and use this as the vessel identifier. In the majority of cases, the IRCS number and WIN would be the same number. |
| WIN format for markings consistent with CMM 2004-03 | WIN as specified shall be the only other vessel identification mark consisting of letters and numbers to be painted on the hull or super structure. |
| **VESSEL TRIP INFORMATION** | |
| Date and time of departure from port | The day and time the vessel leaves the port to start its fishing campaign. I.e. pulls up its anchor, or throws the ropes free from the wharf. |

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| Port of departure | Name of the port of departure - as a help also include the country |
| Date and time of return to port | The day and time the vessel returns to a port (usually taken when vessel either drops the anchor or ties up to a wharf or another vessel in port; at the completion of its trip. |
| Port of return | Name of the port where the vessel returns- as a help also include the country. |
| **OBSERVER INFORMATION** | |
| Observer name | Your name clearly printed using  the format - First name First - Last name Last (Do not use initials )  an observer with the first name John  last name Smith would write John Smith ( Not JS - J Smith or Smith John) |
| Nationality of observer | Country where the observers passport is issued |
| Observer provider -country and or organization | Organisation that employs the observer and has organised the provision of the observer to the vessel.  In the case of the Philippine it most likely would be :BFAR National Observer Programme: Philippines |
| Date, time and location of embarkation | The day and time the observer leaves the port, to start their observer trip. ( Note in most cases this will be the same as the vessel start dates and times) |
| Date, time and location of disembarkation | The day and time the observer returns to a port at the completion of their trip.  ( Note in most cases this will be the same as the vessel return dates and times) |
| **CREW INFORMATION** | |
| Name of captain | The captains name clearly printed in the format - First name First - Last names Last (Do not use initials )  - This may be difficult to determine particularly with some Asian vessels, therefore write the name the way the captain is named on paperwork or from identification he/she shows you. |
| Nationality of captain | Passport nationality of the captain, Note - in your written notes if you wish you can record the captain's birth country, if this is available, i.e.  Capt is Korean born and speaks in Korean but holds a NZ Passport. |
| Identification document | Document that confirms nationality i.e. passport "field not on form" |
| Name of fishing master | The fishing master name clearly printed in the format - First name First -  Last names Last (Do not use initials )  This may be difficult to determine particularly with some Asian vessels so write the name the way the fishing master is named on paperwork or from identification he/she shows you. |
| Nationality of fishing master | Passport nationality of the fishing master, if the vessel has one that is separate from the captain. Note - in your written notes if you wish you can record the fishing master birth country, if this is available, i.e.  Fishing master is Japanese born but holds an Australian Passport. |
| Identification document | Document that confirms nationality i.e. passport "field not on form" |

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| Other crew | Total the number of the other crew on board and if possible indicate the numbers of each nationality i.e. 8 Philippines 6 Samoans 4 Taiwanese |
| Total number of Crew | Add the total number of persons on the vessel including all the officers captain etc, (Do not count yourself in this number, even if you are on the crew list for insurance purposes.) |
| **VESSEL ATTRIBUTES** | |
| Vessel cruising speed | Cruising speed of the vessel is the speed the vessel travel, which allows it to optimize its fuel usage, but also gets the vessel along at a good speed.  It is not the top speed of the vessel. |
| Vessel fish hold capacity | The total maximum amounts in metric Tons (mT.) that the vessel freezers, wells and other fish storage areas on a vessel can hold. |
| Freezer type | Indicate by answering Yes/ No to all the different types of refrigeration methods the vessel has on board, many vessels may have more than one type of freezer. |
| Length (specify unit) | The "LOA" Length Over All can be taken from the vessel plans or from other paper work that indicates the LOA. |
| Tonnage (specify unit) | The vessel may be registered using Gross Tonnage (GT)  or in (GRT)   this will be indicated on the vessel registration papers. |
| Engine power (Specify unit | The engine power and the power units used on board can usually be found in the  vessel plans or from other paper work of the vessel.  If not sure where to look, ask the engineer. |
| **VESSEL ELECTRONICS** | Indicate "Yes or No" if on board. In your written notes you may like to indicate the numbers of each on board as well as the special uses some of this equipment may be used for. |
| Radars | Indicate Yes if on board  No if not sighted |
| Depth Sounder | Indicate Yes if on board  No if not sighted |
| Global Positioning System (GPS) | Indicate Yes if on board  No if not sighted |
| Track Plotter | Indicate Yes if on board  No if not sighted |
| Weather Facsimile | Indicate Yes if on board  No if not sighted |
| Sea Surface Temperature (SST) gauge | Indicate Yes if on board  No if not sighted |
| Sonar | Indicate Yes if on board  No if not sighted |
| Radio/ Satellite Buoys | Indicate Yes if on board  No if not sighted |
| Doppler Current Meter | Indicate Yes if on board  No if not sighted |
| Expendable Bathythermograph (XBT) | Indicate Yes if on board  No if not sighted |
| Satellite Communications Services (Phone/Fax/Email numbers) | Indicate all the vessel Satellite numbers if the vessel has Satellite communications on board |
| Fishery information services | Indicate Yes if  used by the Vessel board  - No if not sighted |

| Vessel Monitoring System | Indicate the type of systems used on a vessel- The most popular and widely used system is the INMARSAT system, however some vessels may use the ARGOS system- some vessels may have both. There are also other systems if these are being used please record the information. |
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| LONGLINE INFORMATION | |
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| **VESSEL ATTRIBUTES** | |
| Refrigeration Method | Indicate by answering Yes/No to all the different types of refrigeration methods the vessel has on board as indicated on the RLL-1 Form - many vessels may have more than one type of freezer. |
| **GENERAL GEAR ATTRIBUTES** | |
| Mainline material | The materials used in the mainline of the vessel some examples are Kuralon- Braided nylon, - Monofilament Nylon there are many more. |
| Mainline length | What is the total length of the mainline when it is fully set usually recorded in miles or kilometres ( make sure the unit is clearly indicated) |
| Mainline diameter | What is the diameter of the mainline; you can measure this with small callipers if you have them or just ask the Engineer or Bosun. Measurement is usually recorded in Millimetres. |
| Branch line material(s) | A branch line can consist of one type of material like monofilament or it can be made up of many different materials like braided nylon wire trace and mono filament, etc |
| **SPECIAL GEAR ATTRIBUTES** | |
| Wire trace | Indicate Y or No - if the vessel uses wire traces on all their lines or only on certain lines i.e. lines close to the buoys etc if no traces are used at all then record N |
| Mainline hauler | Indicate Y or No - Most long line vessel will have an instrument that hauls the lines in after it has been set- some very small vessels may haul line by hand. |
| Branch line hauler | Indicate Y or No - Some long line vessels may use special haulers to coil the branch lines. |
| Line shooter | Indicate Y or No - Some vessels allow the long line to drag over the side and regulate depth-of setting by the speed of the vessels, many long liners have a special piece of equipment that regulates the speed of the line going into the water and therefore along with a constant setting speed of the vessel allow the line to be set at uniform depth along the length of the line |
| Automatic bait thrower | Indicate Y or No -Most vessels manually throw the branch lines with the bait away from the wash, especially if the bait is vulnerable to bird strikes. However there are a number of vessels that use automatic bait throwers so the bait is constantly thrown away from the wash at a determined distance. |

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| Automatic branch line attached | Indicate Y or No - Most lines are attached manually at a regular distance along the mainline by a crewman, however some vessels may have an automatic branch line attacher that also attaches the branch at regular intervals. |
| Hook type | What type of hook or hooks is used<br><br>Examples are J hooks - Circle hooks- offset circle etc, the vessel usually uses one type, but may use a couple of types. |
| Hook size | Size of the hooks used, if not sure ask the Bosun, |
| Tori pole | Indicate Y or No - whether the vessel uses a Tori pole when setting, this is mandatory in some areas. A Tori pole can have a number of different designs but is basically a pole with lines ribbons and other attachments to scare birds away from the branch line baits. |
| Bird curtain | Bird curtain is usually extended from the side of the vessel and is placed in the flight path of the birds swooping in to steal the baits |
| Weighted branch lines- | Do the branch lines have weighted attachments usually lead on the hook, or near the end of the leader of the branch lines? ***Record the mass of the weight attached to the branch line (added WCPFC9)*** |
| Blue dyed bait | Bait that has been dyed especially to look blue This has shown to reduce bird strikes in some trials. |
| **Distance between weight and hook (in metres)**, *(Added WCPFC9) 2012*, | Measure the distance in metres from where the bottom of the weight is attached on the branch line to the eye of the hook |
| Underwater setting shoot | Some vessels may have special shutes or arms that protect the bait and take the line down to a depth before releasing the branch-line this makes it harder for birds to attack the bait. |
| Disposal method for offal management | Most vessels discard their offal from processed fish by different methods, describe what the vessel does- example the vessel may just throw it over the side as they process the fish, they may accumulate offal in baskets and throw it over in one go, they may have machines that blends the offal and it is sprayed over the side. |
| Date and time of start of set | Date and time the first buoy is thrown into the water to start the setting of the line. |
| Latitude and Longitude of start of set | Take the GPS reading at the time the first buoy is thrown into the water |
| Date and Time of end of set | Date and time the last buoy (usually has radio beacon attached) at the end of the mainline thrown into the water |
| Latitude and Longitude of end of set | Take the GPS reading at the time the last buoy is thrown into the water |
| Total number of baskets or floats | A basket is the sum of all the hooks set between two buoys on a longline; usually it is the same as the number of floats set minus one. |
| Number of hooks per basket, or number of hooks between floats | How many hooks set from one buoy to another, the number is usually constant along the line, but can vary in some cases, also if the vessel also sets a branch line on the buoy count this as a hook between floats as well. |

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| Total number of hooks used in a set | How many hooks used, usually calculated by multiplying number of baskets by the number of hooks between the baskets. |
| Line shooter speed | If the vessel has a line shooter, it will normally have an indicator to show its running speed, as well as a sound indicator or light, that beeps at a regular interval, when it is time to attach a branch line. |
| Length of float-line | Length of the line that is attached to the floats, get a coil and measure the length. It usually remains the same throughout the trip. |
| Distance between branch-lines | Distance the branch lines are attached to the mainline can be determined easily if vessel has a line shooter with electronic attachment indicator. |
| Length of branch-lines | Measure the length of a sample of the of the majority of branch lines used, some may vary slightly due to repairs. |
| Time-depth recorders (TDRs) | Does the vessel use TDRs on its line, record the number it may use and where along the mainline they attach them to the branch lines. |
| Number of light-sticks | Does the vessel use light sticks on its line, record the number it may use, and where along the mainline they attach them to the branch lines |
| Target species | What species does the vessel target - Tuna (BET YFT) Swordfish, Sharks. Etc. |
| Bait species | Name the bait species used Pilchards, Sardine, Squid, etc. |
| Date and time of start of haul | Date and time the first buoy of the mainline is hauled from the water to start the haul. |
| Date and time of end of haul | Date and time the last buoy of the mainline is hauled from the water to end the haul |
| Total amount of baskets, floats monitored by observer in a single set | How many floats or baskets monitored by the observer. Observer can monitor this by counting the number of floats they watch coming on board. |
| **INFORMATION ON CATCH FOR EACH SET** | |
| Hook number, between floats | The hook number that the fish is caught on count hooks from the last float hauled on board to next float hauled on board |
| Species code | FAO code of species caught |
| Length of fish | Measure length of species using the recommended measurement |
| Length measurement code | Code the type of measurement used i.e. all tunas are UF upper Jaw to fork length |
| Gender | Sex the species if possible if species checked but to difficult to determine use indeterminate "I" if not seen i.e. on a whole fish use Unknown "U" |
| Condition when caught | Use condition codes to indicate its status when caught |
| Fate | What happens to the fish after its caught use the codes supplied |
| Condition when discarded | After being caught what condition is it returned to the sea |
| Tag recovery information | Record as much as information as possible on any Tags recovered |

| PURSE SEINE INFORMATION AND DATA | |
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| **VESSEL AND RELATED ATTRIBUTES** | |
| Number of onboard support vessels | How many vessels on board other than the net skiff, i.e. speedboats light boats, tow boats. |
| Aircraft Make/Model,/Colour/Call-sign/Registration | If the vessel has a helicopter on board record all the details, usually you can get information from the Pilot. |
| **GEAR ATTRIBUTES** | |
| Maximum depth of net | Ask the engineer what is the maximum net depth |
| Maximum length of net | Ask the engineer what is the maximum net depth |
| Net mesh size | Measure and record the net mesh size of the main body of the net |
| Brailer capacity sizes | Record the size of the main brailer used in mT. if there is more than one brailer record the other sizes as well. |
| **INFORMATION ON DAILY ACTIVITIES** | |
| Date and time of start of daily activities | Record date and when you start each day, record both the /ships time and the UTC time at the same time. Be aware that dates may differ between UTC and ships time. |
| Time of activity | Record ships time for each activity as indicated on the activity codes table. |
| Latitude and longitude of activity | Take the position of each activity. |
| Numbers of school sighted per day | How many free or associated schools of fish were sighted during the day? The vessel may not set on these because of size or amount in school. |
| **SCHOOL INFORMATION** | |
| Method of detection of school | How did the vessel first detect the fish - use the best code |
| Type of school association | Use codes to describe type of school, remembering that fish feeding on bait fish with no floating objects around is considered unassoc. |
| **SET INFORMATION** | |
| Observer's record of date and time of start of set | Record the Start of set usually recorded when the pelican hook is released and net skiff slides in to the water taking the net with it |
| Observers record of date and time of end of set | Record when the net skiff is hauled on board after the set |
| Vessel's record of date and time of start of set | Record what time and date the vessel has entered in the Log sheet for the same set (note do not adjust your time to suit the vessel log it may be different by a few minutes, this is acceptable. |
| Retained catch, by species | Record all species that are retained using the FAO codes |
| Discards, by species | Record all species that are discarded using the FAO codes |
| Tag recovery information | Record as much as information as possible on any Tags recovered |

| INFORMATION ON CATCH FOR EACH SET | |
|---|---|
| Species code | Record all species that are measured using the FAO codes |
| Length measurement code | Record all species as per the measurement methods given in the codes |
| Length | Length measured in Centimetres |

## POLE-AND-LINE INFORMATION AND DATA

| VESSEL ATTRIBUTES | |
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| Vessel fish hold capacity | Record in metric tonnes the total capacity of the fish holds of the vessel. |
| **GEAR ATTRIBUTES** | |
| Automatic poling devices | Record the number of automatic polling devices and comment whether they are used regularly or not. |
| **INFORMATION ON DAILY ACTIVITIES** | |
| Date and time of start of daily activities | Write the date and time that the vessel uses and record all activities using this time |
| Time of activity | Record time of every activity using ships time, unless otherwise stated. |
| Latitude and longitude of activity | Record Latitude and Longitude making sure to include the EW/ NS and record to three decimal places where possible. |
| Type of activity | Use one of the appropriate Activity codes to describe the activity. |
| Numbers of school sighted per day | Record the number of individual schools of tuna sighted each day |
| **BAITFISHING INFORMATION** | |
| Bait species caught | Record bait species caught using 3 letter FAO codes. If unable to describe to species level use family group codes. |
| Bait Species purchased | Record Bait species purchased using 3 letter FAO Codes. If unable to describe to species level use family group codes. |
| Estimated weight or quantity of bait caught or used | Estimated weight of bait used for each fishing activity. |
| **SCHOOL INFORMATION** | |
| Method of detection of school | Use "Detection Codes" on how they best describe, the way the fish were found. |
| Type of school association | Use 'Association Codes" on how they best describe the fish associations. I.e. Free school, Raft , Log, Whale, etc. |
| **INFORMATION ON CATCH PER SCHOOL FISHED** | |
| Number of crew poling | Count number of crew carrying out polling of fish, once the polling has been well established. (Not at start or finish) |

| Time of start of spraying, | Record start time of sprayers. |
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| chumming and poling | Record Start time of Chumming and Polling. |
| Time of end of spraying, chumming and poling | Record time they stop the spraying; Record time they stop Chumming and Polling. |
| Retained catch, by species | Species codes of all catch retained by the vessel: include estimated weight of each species caught per set. |
| Discards, by species | Species code of all catches discarded by the vessel: include estimated weight or number of each species discarded. |
| Tag recovery information | Record all details for any tag recovered in a set. |
| Species code | Record FAO Species Code for each fish that is measured in the order they are measured. |
| Length measurement code | UF measurements are used for all tunas "Upper Jaw to Fork" in the tail ( i.e. caudal fork) |
| Length | Measure from tip of nose to the fork in the tail and rounding down to nearest |

| SPECIES OF SPECIAL INTEREST<br>Marine Reptiles, Marine Mammals, Sea Birds, Designated Shark Species | |
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| **GENERAL INFORMATION** | |
| Type of interaction | Indicate what type of interaction, i.e. caught on line - tangled in net, swimming around outside of net, etc. |
| Date and time of interaction | Record ships date and time of interaction |
| Latitude and longitude of interaction | Record position of the interaction. |
| Species code of marine reptile, marine mammal, or seabird. | Use FAO codes for Species. |
| **LANDED ON DECK** | |
| Length | Measure length in Centimetres. |
| Length measurement code | Measure using the measure method determined for that species. |
| Gender | Sex the animal if possible. |
| Estimated shark fin weight by species | Weigh each species shark fins separately if shark has been fined by crew, if no scales estimate the weight. |
| Estimated shark carcass weight by species | Weigh each carcass of a finned shark, if no scales available or body is discarded, or if it is too large to handle; estimate the weight. |
| Condition when landed on deck | What is the condition when caught use codes |
| Condition when released | What is the condition when discarded use codes |
| Tag recovery information | Record as much as information as possible on any Tags recovered |
| Tag release information | Record as much as information as possible on any Tags placed on the species before being released. |

| INTERACTION WITH VESSEL OR GEAR ONLY | |
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| Vessel's activity during interaction | What was the vessel doing when the interaction took place i.e. setting, hauling, etc. |
| Condition observed at start of interaction | Condition of species at the start of the interaction |
| Condition observed at end of interaction | Condition of species at the end of the interaction |
| Description of interaction | Indicate interaction, with the vessel gear only - caught on line - tangled in net, etc |
| Number of animals sighted | How many animals sighted during interaction |

| VESSELS & AIRCRAFT SIGHTINGS | |
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| **VESSELS & AIRCRAFT SIGHTINGS** | |
| UTC. Date & Time of sighting | Record vessel sighting using UTC date and time from the GPS |
| Observers Vessel Latitude and Longitude position | Record your vessels position at time of sighting. |
| Where possible sighted vessel or aircraft Name | Try to identify the name of the vessel sighted usually on the stern or on the bow |
| Where possible sighted vessel or aircraft call-sign | Try to identify all or part of the call sign painted on the vessel, usually on the bow and or the vessel superstructure |
| Flag of sighted vessel if possible | If possible try t o identify the flag State of the vessel, usually can see the name of the flag State indicated on the stern. |
| Other vessel markings | Record any other visible and prominent markings |
| Type of Vessel (i.e. Purse-seine - Long line, etc.) | Indicated what type of vessel using codes |
| Compass bearing from observers vessels to sighted vessel | What bearing is it from your vessel, to the sighted vessel using compass degrees not directions use $90^0$ not East |
| Estimated distance from observers vessels to sighted vessel | Check the sighting on the radar and use the distance indicated, if not available use your estimate |
| Activity of sighted vessel i.e. Fishing, Drifting, Steaming etc | Describe whether it is fishing or not fishing using the codes. |
| Comments-. | Write any comments that will help to identify the vessel such as colour of vessel, did you take photos, etc. |

| OBSERVER TRIP MONITORING SUMMARY | |
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| **VESSEL TRIP SUMMARY** | |
| Observer name & nationality: | Name and nationality of observer |
| Observer Trip number: | Trip number used on all the other forms |
| Observer Provider/Programme: | Programme that supplied the observer to the vessel |
| Name of Vessel: | Vessel name include all numbers in the name |
| Vessel Call sign: | IRCS or WIN number whichever is used |
| Vessel Gear Type: | Type of vessel |
| Coastal state license, when applicable: | Licence of coastal state if applicable |
| Vessel certificate of registration: | Registration number of vessel as in 'General Attributes' |
| WCPFC Authorisation: | WIN number if supplied |
| Nationality of any boarding vessel * note this field is only to be used when a boarding is made by an inspection vessel | When at sea indicate if any patrol vessels made a boarding name and nationality of the vessel making the boarding |

**Did the vessel do any of the following: indicate YES or NO; for any YES response, please provide additional explanation and information)**

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| inaccurately record vessel positions on vessel log sheet for sets, hauling and catch; (Yes No) | Check vessel log sheets against your recorded position for sets and hauls and determine if they are inaccurate (note positions may vary slightly up but should be in a very close range to your recorded positions |
| inaccurately record retained 'Target Species' in the vessel logs; (Yes No) | Did the vessel record species incorrectly or inaccurately, often on Purse seiners small YFT and BET are thrown in with Skipjack |
| inaccurately record 'Target Species' discards; (Yes No) | Long liners often discard commercial species because they are shark or whale damaged or on Purses seiners because they are too small or are poor quality these are often not recorded at all or are under recorded ( *Note that commercial tuna species discarded on a purse seine vessel can only be when it is unfit for human consumption)* |
| inaccurately record retained By catch species ( Yes No) | Long liners and purse seiners often do not record by catch species they retain such as billfish , mahi mahi |
| inaccurately record By catch species discards; (Yes No) | Long liners and purse seiners often do not record at all any discard species and if they do it is often inaccurate |
| record species inaccurately (Yes No) | Purse seiners often record BET as YFT especially when they are small |
| interact with non target species: (Yes No) | Did the vessel have interaction with non target species ; e.g. species of special interest |
| high grade the catch; (Yes No) | High grading is where smaller or less quality species are discarded to make way for better quality and larger species |

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| fail to comply with any Commission Conservation and Management measure; (Yes No) | Did the vessel not comply with some of the measures in the WCPFC CMMs - i.e. set on FADS when there is a closure , etc |
| fish in areas where it is not permitted to fish; (Yes No) | Did the vessel fish in closed areas such as within territorial seas or specific closures given by the Commission |
| fail to report vessel position to countries, where required, when entering and leaving an EEZ (crossing to or from an EEZ into or out of the High Seas (Yes No) | Vessels are required to indicate to every country when they enter and leave their Zones |
| transfer or tranship fish from, or to, another vessel (Yes No) | Did the vessel the observer is on transfer from, or receive any tuna during the trip. |
| request that an event not be reported by the observer; (Yes No) | Did the Captain ask the observer not to report certain activities occurring on the vessel? |
| Did the operator or any crew member assault, obstruct, resist, delay, refuse boarding to, intimidate or interfere with observers in the performance of their duties (Yes No) | Self Explanatory |
| Did the operator fail to provide the observer, while on board the vessel, at no expense to the observer or the observer's government, with food, accommodation and medical facilities of a reasonable standard equivalent to those normally available and medical facilities of a reasonable standard equivalent to those normally available to an officer on board the vessel. (Yes No) | Self Explanatory |
| use a fishing method other than the method the vessel was designed or licensed; (Yes No) | Did the vessel fish by a method to which it was not designed i.e. purse seiner setting long lines etc |
| lose any fishing gear; (Yes No) | Did the vessel lose any gear during it fishing campaign Describe if it has |
| abandon any gear; (Yes No) | Did the vessel leave gear behind when they go to port (FADS not included) |
| fail to report any abandoned gear; (Yes No) | Did the vessel report the loss or abandonment of gear to the authorities of the country where the vessel fishes in the case of the high seas they should report to the flag state of the vessel? |
| dispose of any metals, plastics, chemicals or old fishing gear; (Yes No) | Did they discard over the side any materials as indicated |
| discharge any oil; (Yes No) | Pump or lose fuel oil into the ocean |

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| fail to monitor international safety frequencies; (Yes No) | Didn't keep the radio s on the bridge tuned to 2180 etc when not in use |
| fail to stow fishing gear when entering areas where they were not authorized to fish; (Yes No) | When entering a non licensed area the vessel must stow all gear<br>These include territorial seas going to port or in countries where the vessel isn't licensed to fish, |

## Codes - that can be used to describe activities, detection and school associations.

### PURSE SEINE ACTIVITY and AIRCRAFT CODES

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

### PURSE SEINE METHOD OF DETECTION OF SCHOOL

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|---|---|
| 1 | Seen from vessel |
| 2 | Seen from helicopter |
| 3 | Marked with beacon |
| 4 | Bird radar |
| 5 | Sonar / depth sounder |
| 6 | Info. from other vessel |
| 7 | Anchored FAD / Payao (recorded) |
| 8 | Other |
| 9 | No tuna associated |

### PURSE SEINE  FATE CODES

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

### PURSE SEINE FREE  SCHOOL ASSOCIATION (tuna)

| | |
|---|---|
| 1 | Unassociated |
| 2 | Feeding on bait fish |

### PURSE SEINE ASSOCIATED SCHOOL ASSOCIATION

| | |
|---|---|
| 3 | Drifting log, debris, dead animal. |
| 4 | Drifting Raft, FAD, Payao |
| 5 | Anchored Raft, FAD, Payao |
| 6 | Live whales/marine mammals |
| 7 | Live whale shark |
| 8 | Other floating object please specify |
| 9 | No tuna associated |

| FAD DATA FIELDS | |
|---|---|
| Name of Observer | Full name of observer -first name first - last name last |
| Vessel Name | Full name of vessel including numbers |
| Vessel IRCS | Vessel Radio Call-sign (If none WIN identification) |
| Observer Trip Number | Trip number allocated by observer provider |
| Page Number | Number pages used |
| Date FAD Sighted | Record date of FAD sighting |
| Time FAD Sighted | Record ships time FAD sighted |
| Latitude of FAD | Record position of FAD using Latitude |
| Longitude of  FAD | Record position of FAD using Longitude |
| **HOW FAD IS DETECTED**<br><br>Codes for how FAD is Detected<br>  1  Seen from vessel (No other Method)<br>  2  Seen from Helicopter<br>  3  Marked with Radio Beacon<br>  4  Bird radar<br>  6  Information from other vessel<br>  7  Anchored  (GPS)<br>  8  Marked with Satellite/GPS beacon<br>  9  Navigation Radar<br>10  Lights<br>11  Flock of Birds sighted from vessel<br>12  Other - please specify in comments<br>13  Being deployed (so not detected)<br>20  Unknown | Record the primary method using codes to locate the FAD |
| **FAD ANCHORED OR DRIFTING**<br><br>(circle "Y" for Yes or "N"  for No<br><br>Y= Anchored  N = Drifting | Indicate whether the floating object is an anchored Floating object or not. |
| **MATERIALS FAD IS MADE FROM**<br><br>**Codes for FAD Main Materials**<br>  1  Logs / trees / branches<br>  2  Timber / planks / pallets / spools<br>  3  PVC or plastic tubing<br>  4  Plastic drums<br>  5  Plastic sheeting<br>  6  Metal drums (i.e. 44gal)<br>  7  Philippines design drum FAD<br>  8  Bamboo / Cane<br>  9  Floats / Corks<br>10  Unknown (Describe)<br>**FAD Attachments**<br>11  Chain /Cable rings /Weights<br>12  Cord/Rope<br>13  Netting hanging underneath FAD<br>14  Bair containers<br>15  Sacking /Bagging<br>16  Coconut fronds/Tree branches<br>17  Other materials (Describe) | Record main components that make up the floating object. |

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|---|---|
| **ELECTRONICS ASSOCIATED WITH FAD**<br><br>Codes for Electronics associated with FAD<br>  1  Radio buoy (with identification)<br>  2  Radio buoy -unidentified<br>  3  GPS buoy (with identification)<br>  4  GPS buoy - unidentified<br>  5  Sounder buoy (with identification)<br>  6  Sounder buoy - unidentified<br>  7  Light buoy<br>  8  Other (describe)<br><br>(record all available identification<br>Characters)<br>  20  Unknown (describe in comments) | Record whether any electronics were associated with the floating object? |
| **ORIGIN OF FAD**<br><br>Codes for Origin of FAD<br>  1.  Your Vessel deployed this trip<br>  2.  Your vessel deployed previously<br>  3.   Other vessel's - with permission<br>  4   Other vessel's - without permission<br>  5   Other Vessel Consent unknown<br>  6   Drifting and found by your vessel<br>  7   Deployed by FAD auxiliary vessel<br>  8   Origin Unknown<br>  9   Other Origin (specify) | Observer is to try to find out the origin of the object<br>- how did it get to be in the water, etc? |
| **FAD ACTIVITY**<br><br>Codes for FAD Activity<br>  1  Setting on FAD<br>  2  Deploying FAD<br>  3  Servicing FAD<br>  4  Retrieving FA<u>D</u><br>  4.   Vessel drifting beside FAD attracting fish<br>     away from FAD before carrying out a Set<br>  6. Vessel setting close to FAD<br>     specify estimated distance in comments<br>  7  Vessel using lights of  boat or light boat to<br>     attract fish from FAD during night<br>  8  Other (Describe)<br>  9 Investigate floating object using sonar/sounder | Observer's best describe the activity that the boat is involved with the FAD.<br><br><br><br><br><br>*Code 9 added at SC5* |
| **ESTIMATED SIZE OF FAD**<br><br>  Simple Diagram to be drawn by observer indicating dimensions. | Record the width, breadth, depth of the main body of the object as found or deployed. |
| **COMMENTS** | Observer to record in writing any FAD information not covered by the fields. |
| Depth of Netting and or other materials | Observers are to try and estimate depth and type of |

| | |
|---|---|
| hanging from Floating Object (FAD) | materials hanging below floating objects. |
| FAD Markings or numbers | Observers are to record any FAD markings such as Numbers – IRCS- Names - or FAD Tag numbers present on FADs |
| Describe the "Floating Object" when first found by the vessel. | Observers are to describe the condition, attachments if any, and nature of the floating object when first investigated. |
| Describe any changes or additions to the 'Floating Object' when vessel departs. | Observers are to describe the condition, and any additional work or electronics attached to refresh the FAD |