

## TECHNICAL AND COMPLIANCE COMMITTEE Thirteenth Regular Session

Pohnpei, Federated States of Micronesia 27 September – 3 October 2017

# FAD DATA TO BE PROVIDED BY OBSERVERS

WCPFC-TCC13-2017-DP03 14 September 2017

Paper by the Parties to the Nauru Agreement

### ABSTRACT

This paper proposes revisions to the WCPFC ROP Minimum Standard Data Fields to reflect the decision of WCPFC12 that vessel operators should provide data on FAD design and construction and FAD activity (deploying, retrieving, setting, visiting, loss etc), and the FAD Management Options – Intersessional Working Group recommendation that data collected by observers on FADs can be used for verification of FAD activities of vessels. The same paper was provided to SC13, which supported the recommendations below.

### Introduction

- 1. This paper was first prepared for SC13 as a contribution to discussion on the SC Agenda item 3.3.1: Review Of ROP Minimum Standards Data Fields where it was planned that "SC13 will review any new proposals to revise the ROP Minimum Data Standard Data Fields."
- 2. After discussion at SC13, the paper has now been revised as a contribution to TCC Agenda 10.1 (b) *Collection of additional data on FADs and their use in WCPO fisheries,* where the Annotated TCC Agenda notes the FAD IWG recommendation *"that the issue of data to be provided by observers be referred to SC13 and TCC13, and CCMs were encouraged to provide delegation papers on this aspect."*
- 3. The proposed revisions arise from the WCPFC12 decision to transfer the primary responsibility for the provision of certain data on FADs from observers to vessel operators, with data on FADs provided by observers, being required for verification of FAD activities.
- 4. The current text of the ROP Minimum Data Standard Data Fields can be found at: <u>https://www.wcpfc.int/doc/table-rop-data-fields-including-instructions</u>

### Background

5. At its 1<sup>st</sup> meeting in Bali, Indonesia in November 2015, the FAD Management Options – Intersessional Working Group (FADMgmtOptions-IWG) recommended that:

vessel operators provide data on FADs covering 2 major areas:

*a.* FAD design and construction of FAD to be deployed or encountered (materials, electronics, size etc.) *b.* FAD activity (deploying, retrieving, setting, visiting, loss etc.)

#### and that:

Data collected by observers on FADs can be used for verification of FAD activities of vessels.

- 6. WCPFC12 agreed that "vessel operators should provide data on FADs covering the following two major areas:
  - *a.* FAD design and construction of FAD to be deployed or encountered (materials, electronics, size etc)
  - b. FAD activity (deploying, retrieving, setting, visiting, loss etc)."
- 7. WCPFC12 also noted the IWG recommendation that "data collected by observers on FADs can be used for verification of FAD activities of vessels."
- 8. At its 2<sup>nd</sup> meeting in Pohnpei, Federated States of Micronesia in September 2016, the IWG recommended that "the issue of data to be provided by observers be referred to SC13 and TCC13, and CCMs were encouraged to provide delegation papers on this aspect."
- 9. WCPFC13 "adopted the Report of the second meeting of the FADMgmtOptions-IWG (WCPFC13-2016-FADMgmtOptions-IWG02\_rev2), and agreed that the outcomes therein should be further considered at SC13 and TCC13."

- 10. **On the provision of FAD data by vessel operators**, (which will be discussed separately from this paper), SC13 supported the IWG recommendation that the operators of all vessels involved in FAD fishery provide, as a minimum, the fields of information identified in Attachment C of the report of the 2nd meeting of the IWG Report, and recommended that "*the WCPFC Secretariat, together with SPC and other interest parties, prepare the set of data fields to be provided by vessel operators and coordinate with the IATTC staff to try to harmonize the minimum standards to be required across the Pacific Ocean*". SC13 also recommended that the proposed fields to be collected by vessel operators be forwarded to TCC13 for review and WCPFC14 for adoption.
- 11. On the provision of FAD data by observers, (which is the subject of this paper), SC13 adopted the proposals in this paper, and:
  - *a)* recommended the following revisions to the ROP Minimum Standard Data Fields:
    - Addition of a new section "FAD Information" that will include inventories of the FAD buoys on board at the start and end of each trip.
    - Addition of a new field for FAD Identification.
    - Deletion of FAD Data fields related to a) materials FAD is made from and b) estimated size of FAD
  - b) "noted that the revisions of the ROP minimum standards will require careful planning and implementation to ensure that the value of WCPFC data on FADs is maintained. In particular, there may need to be a period of overlap in reporting of FAD data where observers continue to report on FAD design and construction while the new reporting requirements for vessel operators are introduced.
  - *c) "recommended that the revisions to the ROP Minimum Standard Data Fields standards be forwarded to TCC13 for review and WCPFC14 for adoption."*

### Approach

- 12. The effect of the IWG recommendations and the Commission decisions noted above is that the primary responsibility for provision of data on FAD design and construction, and FAD activities, will be transferred from observers to vessel operators, with data on FADs provided by observers being required for verification of FAD activities.
- 13. These outcomes reflect a range of considerations for different CCMs including that:
  - a) Vessel operators are better placed currently, and even more so under any WCPFC scheme for physical marking of FADs, to provide data identifying FADs so that information on FAD design can be effectively linked to logsheet data on catches from individual FAD sets and data on FAD interactions including deployments, sightings etc.
  - b) Information on FAD design and construction that the vessel operator can provide, including photos, plans and diagrams of FAD design and construction, is more effective than the information, including drawings by hand, currently provided by observers.
  - c) There is a growing burden of requirements on observers with the monitoring of an increasing range and number of increasingly complex WCPFC CMMs and collection of an increasing range of data.
- 14. Against this background, it is proposed as discussed further below that:
  - a) The **General Vessel And Trip Information For All Vessel Types Part** of the ROP Minimum Standard Data Fields will be revised to include a Section on FAD Information, which will include an inventory of FAD buoys on board at the start and end of each trip

- b) The **FAD DATA fields** of the ROP Minimum Standard Data Fields will be revised to add a FAD Identification field, and delete Data Fields that will be reported by vessel operators and will not be necessary for observers to collect for verification purposes
- c) A FAD Identification field will be added to the **Purse Seine Information and Data**/ **Set Information Fields** of the ROP Minimum Standard Data Fields.

### General Vessel and Trip Information for All Vessel Types

15. Under the heading "General Vessel and Trip Information for All Vessel Types", there will need to be a new section "FAD Information". This section will include inventories of the FAD buoys on board at the start and end of each trip. The inventories will list, for each buoy, the type of buoy (GPS/echo sounding/other), make, model and identification information.

### FAD DATA Fields

- 16. A field for FAD Identification will be added.
- 17. The following sets of FAD Data fields will be deleted:
  - Materials FAD Is Made From
  - Estimated Size Of FAD
- 18. The following FAD Data Fields might also be deleted depending on what data is provided by vessel operators:
  - How FAD Is Detected
  - Electronics Associated With FAD
- 19. This means that the following sets of ROP Minimum FAD Data Fields will be retained:
  - Sighting Date, Time, Position
  - FAD Anchored Or Drifting
  - Origin of FAD
  - FAD Activity

### Purse Seine Information and Data/ Set Information Fields

20. A FAD identification field will be added to the Purse Seine Information and Data/ Set Information fields. This data is already routinely reported by observers, where possible, but it is not currently included in the ROP Minimum Standard Data Fields.

### Indicative Changes to the ROP Minimum Standard Data Fields

21. An Indicative Mark-Up of the proposed changes to the ROP Minimum Standard Data Fields is attached.

### **Other Considerations**

- 22. The changes above will require conforming changes to other documentation including the WCPFC ROP Minimum Standard Data Fields Instructions, and observer workbooks.
- 23. These revisions will require careful planning and implementation to ensure that the value of WCPFC data on FADs is maintained. In particular, there may need to be a period of overlap in reporting of FAD data where observers continue to report on FAD design and construction while the new reporting requirements for vessel operators are introduced.

- 24. For effective implementation, the operators of all vessels, including support vessels, involved in activities with FADs, including deployment, will need to provide data on FADs and carry ROP observers.
- 25. When the Commission adopts a CMM with requirements for FAD design and construction, additional ROP data fields will be required to be provided for the purpose of monitoring compliance with that CMM.
- 26. The key element to making use of FAD data effectively is for FADs, and preferably also FAD attachments, to be consistently identified on the logsheet, on set reports, on FAD activity reports and on FAD design and construction reports so that these FAD-related data elements can be linked.
- 27. Some flexibility may be needed in determining the final detailed changes to the ROP Minimum Standard Data Fields depending on the form of FAD data to be provided by vessel operators.

#### **Recommendation:**

That TCC13:

- a) review the proposed revisions to the ROP Minimum Standard Data Fields proposed above, taking into account the separate discussion on FAD data to be provided by vessel operators; and
- b) note the need for FAD data to be provided by ROP observers for all vessels involved in FAD activities, including support vessels.

## Attachment: Indicative Revisions to ROP Minimum Standard Data Fields

VESSEL TRIP INFORMATION	
Date and time of departure from	The day and time the vessel leaves port to start its fishing
port	campaign. i.e. mits its anchor, or lets the ropes nee from the wharf.
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.
FAD Inventory at Departure FAD Inventory at Return	For each buoy the type of buoy (GPS/echo sounding/other), make, model and identification information

PURSE SEINE INFORMATION AND DATA			
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	
FAD (and attachment) ID	Record the FAD (and attachment) ID No. and/or marking	
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	
Estimated weight or quantity of bait caught or used	Estimated weight of bait used for each fishing activity.	

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		
Codes for how FAD is Detected		
1 Seen from vessel (No other Method)		
2 Seen from Helicopter		
3 Marked with Radio Beacon		
4 Bird radar		
6 Information from other vessel	Record the primary method using codes to locate the FAD	
7 Anchored (GPS)		
8 Marked with Satellite/GPSbeacon	Note: this field might also be deleted depending on data to be	
9 Navigation Radar	provided by the vessel operator	
10 Lights		
11 Flock of Birds signted from Vessel		
12 Other - please specify in comments		
20 Linknown		
FAD ANCHORED OR DRIFTING	Indicate whether the floating object is an anchored	
Circle 1 for <u>Alchored</u> of N for <u>Differing</u>	Floating object of not.	
MATERIALS FAD IS MADE FROM		
Codes for FAD Main Materials		
1 Logs / trees / branches		
2 Timber / planks / pallets / spools		
3 PVC or plastic tubing		
4 Plastic drums		
5 Plastic sneeting		
<ul> <li><del>0 Metal urums (i.e. 44gal)</del></li> <li>7 Dhilippings design drum EAD</li> </ul>		
8 Ramboo / Cane	Record main components that make up the floating object.	
9 Elogts / Corks		
10 Unknown (Describe)		
FAD Attachments		
11 Chain /Cable rings/Weights		
12 Cord/Rope		
13 Netting hanging underneath FAD		
14 Bair containers		
15 Sacking /Bagging		
16 Coconut fronds/Tree branches		
17 Other materials (Describe)		

ELECTRONICS ASSOCIATED WITH FAD	
Codes for Electronics associated with FAD	
1 Radio buoy (with identification)	
2 Radio buov-unidentified	Record whether any electronics were associated with
3 GPS buoy (with identification)	the floating object?
4 GPS buoy - unidentified	
5 Sounderbuoy (with identification)	Note: this field might also be deleted depending on data
6 Sounder buoy - unidentified	to be provided by the vessel operator
7 Light huov	
7 Light budy 8. Other (describe)	
o Other (describe)	
(record all available identification Characters)	
ORIGIN OF FAD	
Codes for Origin of FAD	
1. Your Vessel deployed this trip	
2. Your vessel deployed previously	
3. Other vessel's - with permission	
4 Other vessel's - without permission	Observer is to try to find out the origin of the object; how
5 Other Vessel Consentunknown	did it get to be in the water, etc?
6 Drifting and found by your vessel	
7 Deployed by FAD auxiliary yessel	
9 Origin Linknown	
8 Oligili Olikilowii	
9 Other Origin(specify)	
FAD ACTIVITY	
Codes for FAD Activity	
1 Setting on FAD	
2 Deploying FAD	
3 Servicing FAD	Observer's best describe the activity that the
4 Retrieving FAD	boat is involved with the FAD.
5. Vessel drifting beside FAD attracting fish away from	
FAD before carryingout a Set	
6. Vessel setting close to FAD	
specify estimated distance in comments	
7 Vessel using lights of hoat or light hoat to attract	
fish from FAD during night	
8 Other (Describe)	
9 Investigate floating object using sonar/sounder	Code 9 added at SC5
ESTIMATED SIZE OF FAD	Decord the width breadth death of the main had a of
Simple Diagram to be drawn by observer indicating	Record the width, preduct, depth of the main pody of
dimensions.	the object as found or deployed.
COMMENTS	Observer to record FAD information not covered by the
Depth of Netting and or other materials	Observers are to the and estimate denth and type of
banging from Electing Object (EAD)	matorials
nanging nom rioating Object (FAD)	hanging below floating objects
FAD Markings or purchase	Checking below Hoating objects.
FAD Warkings or numbers	Observers are to record any FAD markings such as
	Numbers – IRCS- Names - or FAD Tag numbers
Describe the "Floating Object" when first found by	Observers are to describe the condition, attachments if
the vessel.	any, and nature of the floating object when first
	any and nature of the notting object which hist
Describe any changes or additions to the 'Floating	Observers are to describe the condition, and any
Object' when vessel departs.	additional work or electronics attached to refresh the

# Code guidelines for use with Minimum Standard Data Fields

Purs	Purse seine Activity and Helicopter Codes		
1	Set		
2	Searching		
3	Transit		
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/s"		
10R	Retrieve - Raft FAD or Payao		
10D	Deploy - Raft, FAD, Payao		
11	No fishing – Drifting at day's end		
12	No fishing – Drifting with a floating object		
13	No Fishing – Other Reason		
14	Drifting with Fish aggregating lights		
15R	Retrieve Radio beacon/GPS buoy, etc.		
15D	Deploy Radio beacon/GPS buoy, etc		
16	Transhipping or bunkering		
17	Service FAD or floating object		
H1	Helicopter takes off to search		
H2	Helicopter returns from search		