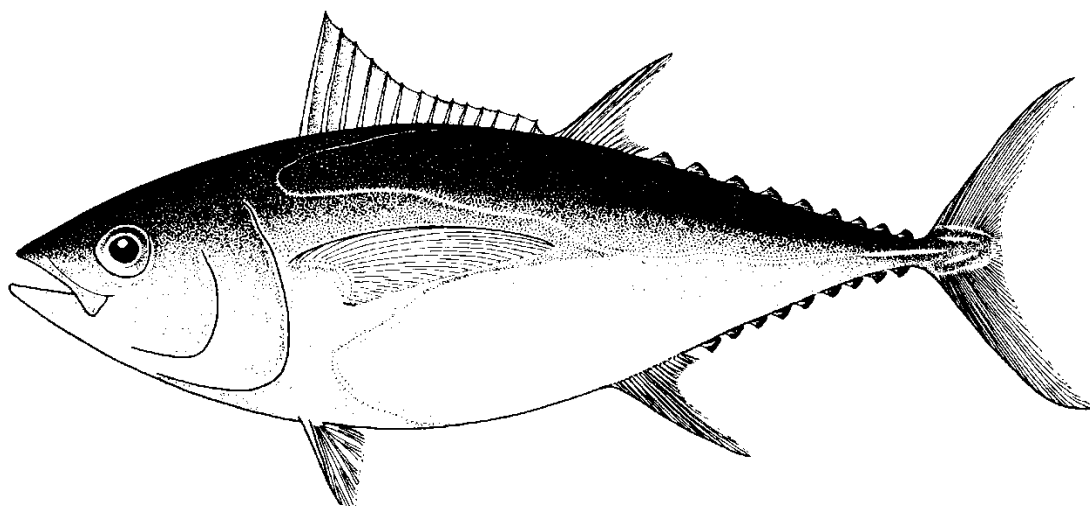


TENTH MEETING OF THE TUNA FISHERY DATA COLLECTION COMMITTEE

DEC 12-15th, Nadi, Fiji

**INFORMATION PAPER
DCC10 – IPO8**

Report on the mini-DCC meeting o ARTISANAL forms (Aug 2016)



Pacific Community



Forum Fisheries Agency

Proposed form modification details		DCC10 agreed updates			
Person proposing change	Proposed addition/modification	Record of discussions	New Remove Edit (Form/Field/Code)	ER standar ds Table field	WCPFC field recommenda tion
<p>The SPC/ FFA Regional Standard Artisanal data collection forms were reviewed in early August in Noumea by SPC staff. Deirdre Brogan, Oceanic Fisheries Programme (OFP, Philip James, Coastal Fisheries Programme (CFP), Frank Magron (CFP), Brad Moore (CFP), Neville Smith (OFP) and Peter Williams (OFP) attended.</p>					
<p>Data Field : Form Type and Section: ALL FORMS</p>					
<p>Since its inception in 2011 the artisanal monitoring programme has continued to re-draw its boundaries and clarify areas of over-lap with other monitoring programmes for small-scale fishing vessels. The artisanal fishery monitoring forms were originally designed to monitor ssfv that target tuna species for national fisheries management interests and voluntary data contributions to the WCPFC.</p> <p>Over time the breadth of the monitoring programme expanded as the extent of overlapping (or secondary targeting) fisheries was better understood. The programme was also deemed suitable and promoted for ssfv targeting snapper and bottom fishery. Since the last DCC an increasing number of countries have implemented the SPC coastal fisheries creel surveys alongside the artisanal programme. The core function and areas of overlap for each monitoring programme is now better understood.</p> <p>In discussion with staff from coastal fisheries programme the group decided to revise the title of artisanal tuna forms to SPC / FFA 'Regional Artisanal <u>Line Fishery</u> form' to better describe that the monitoring programme is most suitable for collecting information from ssfv that use <i>line fishing gear</i> (troll, handline, drop line, bottom fishing etc). Occasional use of non-line gear (i.e. scoop net, gillnet, harpoon) can be recorded, but since the fishing effort for non-line fisheries is not well captured, and any long-term monitoring of non-line gear fisheries should be done through the creel survey programme or other relevant monitoring programme.</p>					
<ul style="list-style-type: none"> FORM ART-1 FAD COST AND MAINTENANCE SCHEDULE (Page 1) 					
<p>Data Field : Form Type and Section: ART-1 ALL</p>					
Mini-DCC Artisanal, August 2016.	Due to other commitments the FAD deployment form was not reviewed. A full review of the form will be scheduled for 2017.				
<ul style="list-style-type: none"> FORM ART-1 FAD COST AND MAINTENANCE SCHEDULE (Page 2) 					
<p>Data Field : Form Type and Section: ART-1 ALL</p>					
Mini-DCC Artisanal, August 2016.	Due to other commitments the FAD deployment form was not reviewed. A full review of the form will be scheduled for 2017.				
<ul style="list-style-type: none"> FORM ART-2 VESSEL IDENTIFICATION FORM 					

Proposed form modification details		DCC10 agreed updates			
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Data Field : Form Title Form Type and Section: ART-2, All					
Mini-DCC Artisanal, August 2016.	A request was submitted to change the title of the ‘Vessel Identification Form’ to the more commonly used term ‘Vessel Registration Form’. The form was originally titled ‘vessel identification form’ in recognition of the fact that many countries have pre-existing, but often redundant national vessel registration forms for ssfv. Additionally, the term ‘vessel registration’ can have legal connotations and may require a fee payment. Operationally the form is always referred to as the vessel registration form, hence the request for a change. In the end the group decided to <u>keep the wording ‘vessel identification’</u> due to the legal connotation of vessel registration. This can be re-visited at some point in the future as there will be increasing focus small-scale vessel registration, licensing and the associated legislation by SPC and FFA during 2017.				
Data Field : {Island code}, {Unique Vessel ID} Form Type and Section: ART-2, All					
	A combination of a three-letter code and a four digit number can be generated national to get a unique alpha numeric code for each ssf vessel. One of the challenges for the monitoring programme is to				

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	<p>continuously uniquely identify a vessel when monitoring.</p> <p>The current system allows countries to generate their own code. However, the system does not work well for large countries i.e. PNG and there may already be unique identification systems in place (i.e. vessel registration programmes).</p> <p>The DCC should consider the best method for creating a strong, user friendly vessel identification system for ssfvs which ultimately must be visible on the vessel and accessible to monitoring staff.</p>				
Data Field : Mooring / Docking Form Type and Section: ART-2, All					
Mini-DCC Artisanal, August 2016.	<p>Recording the mooring position of the vessel can help to map the distribution of the fleet and offer a good visual tool when selecting sites for monitoring, FAD deployments or project set ups. Currently, the form layout captures a postal address but these are generally described with post office box number in the Pacific, and not helpful for mapping. Enhancing the data field to allow the capture of a GPS location, where possible, will improve the collected data.</p>				
Data Field : Form Type and Section: ART-2, Proposed only new section – Licensing					
Mini-DCC Artisanal, August 2016.	<p>An increasing component of artisanal fisheries is licensing, where countries are requiring vessels to be licensing. Currently the vessel identification form</p>				

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	does not capture licensing information. It may not need to, but it could offer to do so and or capture this work elsewhere. What elements are required?				
Data Field : Sports Fishing Vessel Form Type and Section: ART-2, Vessel Specifications					
Mini-DCC Artisanal, August 2016.	This data field has been misunderstood. The intention of the data field was to capture ssfv that regularly take out paying tourists. The data fields have been used in the past to indicate vessels that take out non-fishers during local competition days etc. Better defining this data field in the instructions and considering a name change (charter vessel) should help to improve the data.				
Data Field : Monitoring Times Form Type and Section: ART-2, Vessel Specifications					
Mini-DCC Artisanal, August 2016.	The group looked at a common error in the start time and end time records to discover if better formatting or instructions could improve the submitted data. Often monitors would start a new monitoring time before ending the last monitoring session. Data analysis suggested that this problem was not significant and that the data could be teased out to display general monitoring times. At this stage most errors in this area have been cleared up with better training. The group suggested no change was required.				

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<ul style="list-style-type: none"> FORM ART-3 VESSEL FISHING ACTIVITY FORM 					
Data Field : Unobserved Activity Codes – proposed only Form Type and Section: ART-3, Vessel Activity Count					
Mini-DCC Artisanal, August 2016.	<p>The vessel activity form does not capture non-fishing days. Non-fishing days may occur due to bad weather, religious adherence, or participation in community activities. Additionally, increased fishing activity can take place before festivals etc. In the absence of data to denote non-fishing days analysts may assign average fishing activity to non-fishing days. This can result in erroneous estimates of total catch.</p> <p>To better capture non-fishing and increased fishing days the group agreed enumerators should be encouraged to record a fishing activity code for every day of the calendar year using the described codes.</p> <p>Unobserved Activity Codes</p> <p>1- No survey undertaken 2- No fishing — purse seine unloading 3- No fishing — adverse weather 4- No fishing — Sunday 5- No fishing —community event day 6- No fishing — no fuel on island 7- No fishing — other reason please specify 8- Increased fishing —</p>				

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	competition day 9- Increased fishing — preparation for community event				
<ul style="list-style-type: none"> FORM ART-4 FISHING LOGSHEET 					
Data Field : Header details Form Type and Section: ART-4, Header Details					
Mini-DCC Artisanal, August 2016.	Header details The header detail captures supplementary information about the vessel to help uniquely identify it in the absence of a full vessel registration programme. In the case of strong national vessel registration some of these fields will no longer be required on the logsheet. The group agreed to retain all data fields until vessel registration for ssfv has improved.				
Data Field : New – Gender Information Form Type and Section: ART-4, Header Details					
	Increasingly funding project required information on the gender of the crew and it was suggested that gender disaggregated data is best captured under the ‘no. of crew’ data field.				
Data Field : Form Type and Section: ART-4, Trip Costs					
Mini-DCC Artisanal, August 2016.	As an overall comment for all of the artisanal forms the less important data should be placed lower on the form. The group agreed to place trip costs below fishing events.				
Data Field : Fuel / Ice / Bait purchased Y/N Form Type and Section: ART-4, Trip Costs					

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Mini-DCC Artisanal, August 2016.	Recording a dollar value for trips costs may introduce a digit and recall bias if fishers don't remember or weren't involved in purchasing the last quantity of fuel/ice/bait. The method of payment may also influence the fishers response. For instance fuel may not be paid for, but rather acquired through hire purchase or 'put on credit'. New wording capturing both the volume used and the cost was suggested and these should be asked at the trip level. "How much fuel/ice was used?" with a positive response flowing to 'how much did you purchase?'. The group considered the effect of recall bias on the collection of gear purchased data and decided that the most appropriate time would be the previous 7 days.				
Data Field : Use Live Bait? Form Type and Section: ART-4, Questions					
Mini-DCC Artisanal, August 2016.	Live bait can be used by fishers in the Cooks Islands and a request to add this data field was previously accepted. However, when the data was reviewed (Sept 2016) only a handful of the logsheet records indicated any use of live bait. The majority of records stated live bait use as 'unknown', with some records indicating no use of live bait. Since capturing live bait use has not been successful in the Cook Islands, and that it is nationally focused request this data field will be retired from the data form.				

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Data Field: <i>Fish on a Fad? Y/N</i> Form Type and Section: ART-4, Questions					
Mini-DCC Artisanal, August 2016.	<i>Fish on a Fad? Y/N</i> This data field was originally added as a cross-check to ensure fishers reported FAD fishing fully. Analysis of artisanal data in Tuvalu suggested there was a need to enhance the data field to capture any FAD associated fishing that was not done directly on the FAD. Increasingly sub-surface FADs are used and it is known that fish associated with the FAD can be found up to a mile away. The group agreed to change this field to “fish within 1 mile of FAD”. The instructions will clarify that it is a nautical miles.				
Data Field: <i>Shark bites</i> Form Type and Section: ART-4, Questions					
Mini-DCC Artisanal, August 2016.	<i>Shark bites</i> Increasingly, verbal reports suggest a rise in shark interactions with coastal fisheries. There is, however, no hard data to support this. To better understand shark interactions a request was made to capture the number of shark bites that occurred during the trip. A new question “Number of shark bites this trip’ will be introduced. Shark bites will be defined in the instructions.				
Data Field: <i>Intended End Use</i> Form Type and Section: ART-4, Catch					
Mini-DCC Artisanal, August	There are strong and continuous requests to document the final or end				

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2016.	<p>use of the fish, most especially the final economic value of the fish, but not particularly the dollar value. In the past there was resistance to collecting this data as the end use of the fish is not always known at the point of unloading. Capturing non-dollar usage or shadow price is helpful when assessing changes in livelihood and food security behaviours. Noting the continued request for this data and its appearance in NGO FAD data collection systems the group proposed to add this to the form.</p> <p>The group agreed to add a new data field kilograms at the end of the line SPECIES NO. KG Intended End Use Codes</p> <ol style="list-style-type: none"> 1. Local sale 2. Urban sale 3. Middle man? 4. Restaurant sale 5. Home consumption 6. Gifting 7. Other - please specify 				
<ul style="list-style-type: none"> • FORM ART-5 SAMPLING FORM 					
Data Field: Proposed – Weight column Form Type and Section: ART-4, Catch					
Mini-DCC Artisanal, August 2016.	<p>Add Weight</p> <p>A request was made to add a weight column to the sampling form. Normally lengths are taken for pelagic biometric data. However, in some reef species weight data may also be taken.</p>				

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	<p>In discussion the Coastal Fisheries Scientist suggested that weight data was not required and length data was sufficient. No change.</p> <p><i>Post meeting</i> – the sampling protocol should be revised to collect accurate weight data to improve annual catch estimates. How does DCC capture changes in sampling protocols.</p>				
Data Field: Calibration of Calliper – New Form Type and Section: ART-5, Species					
	<p>Samplers will be asked to record on a set by set basis the calibration of their calliper. For instance if the calliper is reading 50.3 cm when the true length is 50 cm they should record a calibration error of + 3 mm.</p>				