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FAD FISHERY MODEL LOGBOOK



If found please return booklet to the Fisheries Division/Department
[Insert Address Here]
[Insert Telephone Number Here]

FAD FISHERY MODEL LOGBOOK

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FOREWORD

This model logbook was developed through a joint collaboration between the CRFM and the JICA-funded Caribbean Fisheries Co-Management (CARIFICO) Project. A detailed description of the process of its development with recommendations for implementation of a logbook system for FAD fisheries is published in CRFM Technical and Advisory Document – Number 15/02. The main purpose of the logbook is to involve fishers in the collection of data which will provide a wide range of information to help make the best possible decisions concerning the management of FAD fisheries.

Of specific importance is that the data collected can also be used by boat owners and fishers to help plan their fishing trips, keep track of their expenses and earnings and keep records that can be used to get financial assistance from credit agencies.

Making fishers and boat owners aware of the importance and benefits of the data collected is very important to the success of any logbook programme. Fishers should also be trained in how to accurately identify the various species caught in FAD fisheries and how to use the data collected to estimate their costs of fishing and earnings from the sale of fish.

It is intended that the national fisheries authorities of the six countries that are participating in the CARIFICO Project will test and modify the logbook to suit the specific local situations and develop the corresponding computerized database to be able to store and analyze the data collected under the FAD Logbook Programme.

Based on the results from testing of the logbook as well as any other data required by managers, boat owners or fishers it may become necessary to revise this model logbook in future.

ACKNOWLEDGEMENTS

The development of this first version of the model logbook for the FAD fishery would not have been possible without the feedback from the staff of Fisheries Divisions of CRFM Member States that are participating in the CARIFICO Project namely: Antigua and Barbuda, St Kitts and Nevis, Dominica, Saint Lucia, St Vincent and the Grenadines and Grenada. We also acknowledge the assistance of Mr Mitsuhiro Ishida, of the JICA-CARIFICO Project, who provided customized drawings of the various gear types that are used around Fish Aggregating Devices. We are grateful to Mr Paul Gervain and Mr Ishida for provision of the photographs that were used on the cover of the logbook. The Secretariat also expresses its gratitude to the following members of staff who were involved in the preparation of the logbook: Elizabeth Mohammed, June Masters, Susan Singh-Renton and Pamela Gibson.

VESSEL (BOAT) DETAILS

Name of Boat:
Registration Number of Boat:
Name of Boat Owner:
- Wall 02 2 000 0 Wall 1
Address of Boat Owner:
Address of Boat Owner.
Contact Telephone/Cell Number of Boat Owner:
Site from which boat operates:

Please detach and return the completed original logheets of this logbook to the Fisheries Division/Department every two weeks. The carbon copy sheets are to be retained by the fisher for his/her personal use.

If found please return booklet to the Fisheries Division/Department
[Insert Address Here]
[Insert Telephone Number Here]

LOGSHEETS

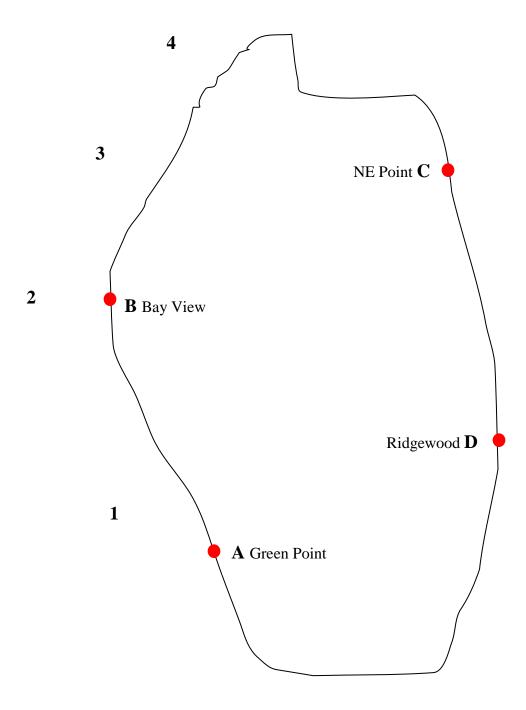
Boat Name:							В	oat re	gistra	tion 1	numb	er:							
Departure sit	te (see ma	p to i	identify site):		Dej	parture d	late (d	ay/mo	nth/ye	ear):			Departu	ire t	ime:				
Landing site	(see map	to id	entify site):		Lar	nding da	te (day	//mon	th/yea	r):			Landing	g tin	ne:				
FISHING	EFFORT	Γ		Number	of Fi	ishers:													
Gear Types:			7.					See 1	nap to	ider	ıtify .	FAD#	or fishir	ıg a	rea				
HL: Handlin LL: Longline				FAD#	or fisł	ning area	ı:		FAD) # oı	r fish	ing are	a:		FAD	# or	fishing	are	a:
Gear used (se																			
Number of li	ines																		
Number of h	ooks																		
Number of h	ours fishe	d:																	
Day (D) or r	night (N) f	fishir	ng:	D□		N			D \square			N			D 🗆			N	
Total number	r of boats	fishi	ng:																
Depth fished	l: □ feet □	metr	res (tick one)																
		Leve	els of processi	ng – Gutte	ed (G	U); Gille	ed (GI); Hea	ıded (l	H); F	inne	d (F); V	Whole (V	W)					
CATCH			Type: Artific			-			•										
FAD#/ Sp		Wei	ghts in □ lbs □	kg (tick of				e □ es r Typ		ed 🗆	mea Ba		n a scal	,	No.		Wais	h4	Unit
fishing	oecies			(encircle		_			which		Ту		Cau	_	Caug	ht	Weig Sold	III	Price
area				applies)			appl												
				GU GI	Н	F W	TR	HL D	L LL	RR									
				GU GI	Н	F W	TR	HL D	L LL	RR									
				GU GI	Н	F W	TR	HL D	L LL	RR									
				GU GI	Н	F W	TR	HL D	L LL	RR									
				GU GI	Н	F W	TR	HL D	L LL	RR									
				GU GI	Н	F W	TR	HL D	L LL	RR									
				GU GI	Н	F W	TR	HL D	L LL	RR									
				GU GI	Н	F W	TR	HL D	L LL	RR									
				GU GI	Н	F W	TR	HL D	L LL	RR									
				GU GI	Н	F W	TR	HL D	L LL	RR									
				GU GI	Н	F W	TR	HL D	L LL	RR									
				GU GI	Н	F W	TR	HL D	L LL	RR									
BY-CATC			Turtles	Seabirds		Sharks		Whal	les	Γ	Oolph	ins	Porpoi	se	Mar	natee	О	ther	
Number Kep Number disc		d																	
Number disc																			
	Indicate n	nones	y spent in XCD	for the follo	owing	that are i	used fo	r the fi	shing 1	rin									
FISHING COSTS	Fuel:		Oil:	Ice:		Fo			Bait			Gear	·:		Other (sp	ecify):			
00010	Amount o	of oil	used for the trip	: Gal	llons	□ Litres	□ (tick	one)	Am	ount o	of fue	el <u>used</u> f	or the tri	!_				□ (ti	ick one)
							`		1									Ì	
SEA STATE Sea State Code				Calm (glassy)		alm ppled)	Smoo (wave		Slig	ht	Mo	derate	Rough	1	Very rou	ugh	High	Ve	ery high
					Blu	e Milky	.,		Blue-	Cr/	een	Dark	Light	Dad	/Reddish/	Pink	Purp	ala l	Seaweed
			cle one): see the art in the guideli		Diu		y oise-pu		green	GIG	een				strikes	FIIIK	Fuiț		present
COMMENT	rs & obs	SER	VATIONS:								••••		•••••						
CHDMICCIA			HEET: Name																
			he log sheet:																
FOR OFFIC	CIAL USI	E																	
Received by:-				Signature									day/mon						
Verified by:-				Signature									day/mon						

Boat Nar	me:							Boat 1	egistrat	ion n	umber:						
Departur	e site	(see map	to i	dentify site):		De	parture d	date (day/m	onth/ye	ar):		Departu	ıre tin	ne:			
Landing	site (see map to	o ide	entify site):		Lar	nding da	te (day/mo	nth/year	·):		Landing	g time	e:			
FISHIN	IG E	FFORT	1		Number	of F	ishers:				L						
		R: trollin						See	map to	ident	ify FAD#	or fishin	ıg are	га			
HL: Han LL: Long		DL: D RR: Ro			FAD# c	r fisl	ning area	a:	FAD	# or i	fishing are	ea:		FAD# o	r fishir	ng are	ea:
Gear use	d (sel	ect from	abov	/e):													
Number	of lin	es															
Number	of ho	oks															
Number	of ho	urs fished	1:														
Day (D)	or ni	ght (N) fi	ishin	g:	D 🗆		N		D 🗆		N			D□		N	I 🗆
Total nui	mber	of boats f	ishii	ng:													
Depth fis	shed:	□ feet □ r	metro	es (tick one)													
CATCH	H	E	3ait	ls of processi Type: Artific thts in □ lbs □	ial Lure O kg (tick o	R None)	atural S _I - Weig l	pecies – lis hts are □ e	t specie estimate	s (list	below) neasured o	on a scale	e (ticl				
FAD#/ fishing area	Spe	cies			Level of (encircle applies)		U	Gear Ty (encircle applies)	•		Bait Type	Weig Caug	_	No. Caught	Wei Solo	_	Unit Price
					GU GI	Н	F W	TR HL	DL LL	RR							
					GU GI	Н	F W	TR HL	DL LL	RR							
					GU GI	Н	F W	TR HL	OL LL	RR							
					GU GI	Н	F W	TR HL	DL LL	RR							
					GU GI	Н	F W	TR HL	DL LL	RR							
					GU GI	Н	F W	TR HL	DL LL	RR							
					GU GI	Н	F W	TR HL	DL LL	RR							
					GU GI	Н	F W	TR HL	DL LL	RR							
					GU GI	Н	F W	TR HL	DL LL	RR							
					GU GI	Н	F W	TR HL	DL LL	RR							
					GU GI	Н	F W	TR HL	DL LL	RR							
					GU GI	Н	F W	TR HL	DL LL	RR							
BY-CA		[Turtles	Seabirds		Sharks	Wh	ales	Do	olphins	Porpoi	se	Manatee		Other	•
	disca	rded dead															
Number	disca	rded alive	2														
FISHIN	\mathbf{G}	Indicate me	oney	spent in XCD	for the follo	wing	that are	used for the	fishing t	rip					-		
COSTS		Fuel:		Oil:	Ice:		Fo	ood:	Bait		Gea	r:	О	ther (specify	r):		
		Amount of	f oil <u>u</u>	ised for the trip	: Gal	lons	□ Litres	□ (tick one)	Amo	ount of	f fuel <u>used</u> t	for the trip	p:	Gallons	Litre	s □ (t	ick one)
		(encircle o			Calm (glassy)		alm (ppled)	Smooth (wavelets)	Sligl	nt	Moderate	Rough	n Y	Very rough	High	V	ery high
				ele one): see the		Blu		y ioise-purple	Blue- green	Gree	en Dark green		Red/F Red s	Reddish/ Pir trikes	ık Pu	rple	Seaweed present
				VATIONS:													
		•••••						•••••									
SUBMIS	SSIO	N OF LO)GS	HEET: Nam	e of fisher	(in B	BLOCK le	etters)						•••••			•••••
_	-	_		ne log sheet:			•••••		Date of	f comp	pletion of lo	og sheet (d	day/m	onth/year): .			
FOR OF Received		IAL USE	2	T	Signature:	-					Date (day/mon	th/yea	r):			
Verified b					Signature:							day/mon					
Computer					Signatura							day/mont					

Two logsheets have already been included – the Fisheries Department is to insert as many sheets as it see fits – at the minimum, enough sheets should be included to facilitate recording of data for fishing activities over an entire month, for the respective boat.

MAP SHOWING DEPARTURE AND LANDING SITES AND FAD LOCATIONS

Map for identifying FAD sites (numbers) and Departure and Landing sites (letters)



[Map of fishing and FAD locations to be customized by each Fisheries Department and included here]

GUIDELINES FOR COMPLETION OF LOGSHEETS

GUIDELINES FOR COMPLETION OF LOGSHEETS

General Instructions

- 1. Each sheet of this logbook is carbon copied. Every two weeks please remove all the completed originals and return them to the Fisheries Division. The carbon copy is to be retained by you for your records.
- 2. The front page of the logbook should be filled out by the boat owner or the Fisheries Division
- 3. All pages of this logbook must be used only for the boat with registration number indicated on the front cover. Pages must not be torn out to be used for another boat.
- 4. One logsheet must be completed for each fishing trip.
- 5. The logsheet should be filled out within 24 hours of the end of a FAD fishing trip.
- 6. Unless stated otherwise, all writing on the logsheet must be in capital letters.
- 7. ALL areas of the logsheet must be completed for EVERY trip.
- 8. Boat owners must contact the Fisheries Division for a new logbook well in advance of completion of the current one.
- 9. A completed sample logsheet is provided at the back of this logbook.

Instructions on how to complete each section of the log sheet

- **1. Boat name:** insert the name of the boat the name must be spelt the same as it appears on the boat registration document from the Fisheries Division.
- **2. Boat registration number:** insert the number of the boat. The number must be the same as it appears on the boat registration document from the Fisheries Division.
- **3. Departure Site** (see map to identify site): To identify the *departure site* please locate on the map provided in the back of this logbook, the letter that best represents the point from which you started your trip. Write this letter in the space provided next to *Departure site*.
- **4. Departure Date (day/month/year):** Using the format day/month/year, write the date you left to go fishing.
- **5. Departure time:** Indicate the time you left the departure site for your fishing trip. Please indicate whether the time is "a.m." (between midnight and midday) or "p.m." (between midday and midnight).
- **6.** Landing Site (see map to identify site): To identify your *Landing site* please locate on the map provided in the back of the logbook, the letter which best represents the site at which you landed your fish after your fishing trip. Write this letter in the space provided next to *Landing site*.

Please note that you may have departed from and returned to the same site. If this is the case it is correct to place the same letter at the spaces provided next to *Departure site* and *Landing site*.

- **7. Landing date:** Using the format day/month/year, write the date you returned from your fishing trip.
- **8.** Landing time: Indicate the time you returned to the landing site from your fishing trip. Please indicate whether the time is "a.m." (between midnight and midday) or "p.m." (between midday and midnight).

FISHING EFFORT

9. Number of fishers: Write the number of people on board the boat who were involved in catching of fish.

10.

Gear Types: TR: trolling;	See mo	up to identify FAD # or fishing	area
HL: Handline DL: Dropline; LL: Longline RR: Rod & Reel	FAD # or fishing area:	FAD # or fishing area:	FAD # or fishing area:
Gear used (select from above):			
Number of lines			
Number of hooks			
Number of hours fished:			
Day (D) or night (N) fishing:	D - N -	D - N -	D - N -
Total number of boats fishing:			
Depth fished: □ feet □ metres (tick one)			

For this section you must complete a full column for each FAD or area where you fished on the particular fishing trip.

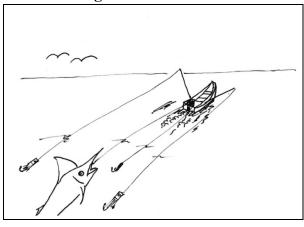
- **11. FAD** # or fishing area: Using the map provided at the back of the logbook please identify the first FAD # or area where you fished and write the corresponding number or letters for each FAD or fishing area. The logsheet allows enough space to record details for as many as three (3) FADs or fishing areas used on a single fishing trip.
- **12. Gear used:** Indicate the gear(s) used at the first FAD or area where you fished in the cell highlighted yellow. Use the key below to help you identify the gear type. You can include more than one gear type in the same column.

TR = trolling HL = handline DL = Dropline

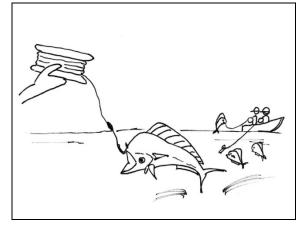
LL = Longline RR = Rod and Reel

The drawings below show the different gear types

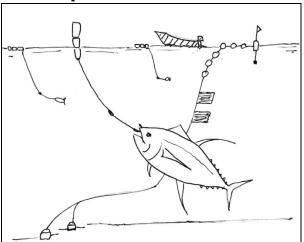
TR = Trolling



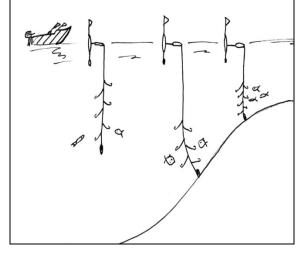
HL = **Handline**



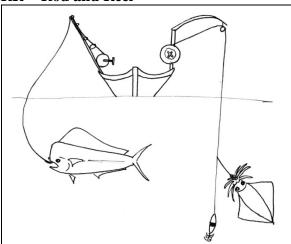
DL = **Dropline**



LL = Longline (vertical)



RR = Rod and Reel



- **13. Number of lines:** Write the number of lines that were used at the first FAD or area where you fished in the cell highlighted blue: eg. 6, 4, 10 etc. Please ensure that you are using the correct column.
- **14. Number of hooks:** Write the number of hooks related to the different gear you listed directly above in the cell highlighted white. Write the information in the same order in which you listed the gear.
- **15. Number of hours fished:** Write the number of hours spent fishing at the first FAD or fishing area in the cell highlighted pink. Please ensure that you are using the correct column.
- **16.** Day or night fishing: Tick either "D" for day or "N" for night, in the cell highlighted orange to show the time when you fished at the first FAD or fishing area. Night is considered the time after the sun has set and before the sun has risen.
- **17. Total number of boats fishing:** Write the total number of other boats you observed fishing at the first FAD or fishing area at the same time that you were fishing there, in the cell highlighted orange.
- **18. Depth fished:** Tick either the box marked "feet" OR the box marked "metres" to show which of the two you are going to use to indicate the depth at which you fished. Write in the depth of water in which you fished at the first FAD or fishing area in the cell highlighted grey.

Note that if you fished at a **2nd or 3rd FAD** on the same fishing trip you are required to write in the correct information from steps 10 to 17 above in the **2nd and 3rd COLUMNS** respectively.

CATCH

		Levels of	processing -	- Gutted ((GU); Gilled (GI); Head	led (H); Fi	nned (F); W	hole (W)		
CATCI	H				Natural Species – list s	• '				
	T	Weights i	т) - Weights are = esti	_	1	1		
FAD#/ fishing area	Species		Level of Proceedings (encircle was applies)		Gear Type (encircle which applies)	Bait Type	Weight Caught	No. Caught	Weigh t Sold	Unit Price
			GU GI I	H F W	TR HL DL LL RR					
			GU GI I	H F W	TR HL DL LL RR					
			GU GI I	H F W	TR HL DL LL RR					
			GU GI I	H F W	TR HL DL LL RR					
			GU GI I	I F W	TR HL DL LL RR					
			GU GI I	H F W	TR HL DL LL RR					
			GU GI I	H F W	TR HL DL LL RR					
			GU GI I	I F W	TR HL DL LL RR					
			GU GI I	H F W	TR HL DL LL RR					
			GU GI I	I F W	TR HL DL LL RR					
			GU GI I	H F W	TR HL DL LL RR					
			GU GI I	H F W	TR HL DL LL RR					

Levels of processing: fish may be processed at sea and various ways – the guts may be removed (Gutted: GU) – the gills may be removed (Gilled: GI) – the head may be removed (Headed: H) – the fins may be removed (Finned: F) or the fish may be landed without being processed, in a whole form (WHOLE: W)

Bait type: different types of bait may be used on a fishing trip – these may be artificial lures or natural species (other fish)

- 19. Weights in \Box lbs \Box kg (tick one): If the weight of the fish is to be provided in pounds then tick the box beside lbs and if the weight of the fish is to be provided in kilograms then tick the box beside kg.
- **20.** Weights are \square estimated \square measured on a scale (tick one): "Estimated" means that the fisher used his experience or "eye" judgement to guess the weight of the fish. "Measured on a scale" means the fish was weighed on a scale to obtain its weight. Tick one of the two boxes to show how you got the weight that you are recording on the logsheet.

Now you have to fill in the Table – Remember that you have to record information separately for each of the fish species caught at each FAD that you fished. Each line of information relates to a particular species caught at a particular FAD using a particular gear and bait.

- **21. FAD** #/**fishing area:** To identify the *FAD# or fishing area* please locate on the map provided in the back of this logbook, the letter that best represents the FAD or fishing area where you fished. Write this letter in the space provided next to *FAD#/fishing area*, in the yellow cell.
- **22. Species:** Write the name of each species caught at the first FAD starting at the cell highlighted blue and down the same column for each different species. Please see the pictures of the main species of pelagic fish, and their names, at the end of this section, for easy identification.
- **23. Level of processing:** Encircle the kind of processing you are going to do on board the vessel in the white cell. The level of processing must match the weight you record for the fish. If you recorded the weight <u>after</u> the fish was processed circle all of the following that apply: GU (gutted); GI (gilled); H (headed) or F (finned). If there was no processing or if the fish was weighed and the weight recorded before it was processed then write W (whole).

- **24. Gear Type:** Encircle the type of gear that was used to catch the particular species in the pink cell. The gear types are: TR (trolling); HL (handline); DL (dropline); LL (longline); RR (rod and reel).
- **25. Bait type:** Write in the orange cell the type of bait that was used to catch the species to wrote in the blue cell. Remember that bait can be either artificial lure or natural species. If you used natural species then write in the name of the species e.g., ballyhoo, skipjack tuna.
- **26. Weight caught:** Write the weight of the fish in the purple cell. Remember that the weight is linked to the unit you ticked under points 19 and 20.
- **27. No. caught:** Write in the number of fish that corresponds to the weight in point 26 in the grey cell.
- **28. Weight sold:** Write in the weight of the particular species of fish that was sold in the green box. If you sold all that you caught then the weight in the green box should be the same as the weight in the purple box. If you sold only part of what you caught then the weight in the green box will be smaller than the weight in the purple box.
- **29. Unit price:** Write in the price at which you sold the fish in the black cell. This price will either be per pound or per kilogram depending on what you ticked under point 19.

Note that for each different species caught at the same FAD you will have to write in the information at points 22 to 29, using a different line for each species. In this case the FAD# will be the same for all the lines of information you write in. If you fish at a second FAD you will have to indicate the 2^{nd} FAD number and write in the information at 22 to 29 using a separate line for each species.

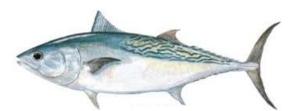
Pictures of Pelagic Fish and Shark Species

The sources of the pictures are provided in the table at the end of the guidelines. Note that the relative sizes of the various species in the pictures are not to scale in real life. If you do not see the species you caught in the pictures ask staff of the Fisheries Department for help to identify the species. [Note Fisheries Divisions are to insert the appropriate local name for each species]

Skipjack tuna - Local name:



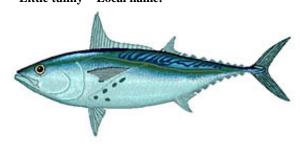
Frigate tuna - Local name:



Bullet tuna - Local name:



Little tunny - Local name:



Atlantic bonito - Local name:



Blackfin - Local name:



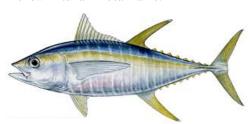
Albacore tuna - Local name:



Cero mackerel - Local name:



Yellowfin tuna - Local name:



King mackerel - Local name:



Bigeye tuna - Local name:



Wahoo - Local name:



Common dolphinfish - Local name:



Great barracuda - Local name:



Blue marlin - Local name:



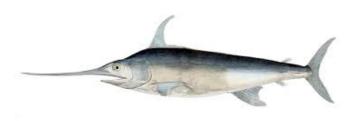
White marlin - Local name:



Atlantic sailfish - Local name:



Swordfish - Local name:



Blue shark - Local name:



Night shark – Local name:



Bigeye thresher shark – Local name:

Oceanic whitetip shark – Local name:



Silky shark - Local name:



Shortfin mako shark - Local name:



BY-CATCH

The term "by-catch" means those species that you did not set out to catch but you caught anyways. These species may be marine turtles, seabirds, whales, porpoises, manatees or other species. Sometimes the by-catch may be kept for sale or personal use or it may be thrown overboard (discarded), either in a dead state or alive.

BY-CATCH	Turtles	Seabirds	Sharks	Whales	Dolphins	Porpoise	Manatee	Other
Number Kept								
Number discarded								
dead								
Number discarded								
alive								

- **30. Number kept:** Write in under each species that apply, the number of animals caught and kept on board.
- **31. Number discarded dead:** Write in under each species that apply, the number of animals discarded dead.
- **32. Number discarded alive:** Write in under each species that apply, the number of animals discarded alive.

FISHING COSTS

Note that all costs are in Eastern Caribbean Dollars

FISHING	Indicate money sper	nt in XCD for th	e following that	are <u>used</u> for the fis	hing trip						
COSTS	Fuel:	nel: Oil: Ice: Food: Bait: Gear: Other (specify):									
	Amount of fuel use	d for the trip:	Gallons Li	tres (tick one)	Amount of oil u	sed for the trip:	Gallons □ Litres □ (tick one)				

- **33. Fuel:** Write in the amount of money spent on fuel that was used for the trip. You may have purchased more fuel than was actually used for the trip, so you will have to estimate the amount used.
- **34. Oil:** Write in the amount of money spent on oil that was used for the trip. You may have purchased more oil than was actually used for the trip, so you will have to estimate the amount used.
- **35. Ice:** Write in the amount of money spent on ice for the fishing trip.
- **36. Food:** Write in the amount of money spent on food for the fishing trip.
- **37. Bait:** Write in the amount of money spent on bait for the fishing trip.
- **38. Gear:** Write in the amount of money spent on fishing gear or equipment for the fishing trip.
- **39. Other:** If there are any other costs related to the fishing trip write in what the cost relates to and the amount spent.
- **40. Amount of oil used for the trip:** Write in the amount of fuel used for the trip and tick whether the amount relates to gallons or litres.
- **41. Amount of fuel used for the trip:** Write in the amount of oil used for the trip and tick whether the amount relates to gallons or litres.

SEA STATE

SEA STATE (encircle one): see the	Calm	Calm	Smooth	Slight	Moderate	Rough	Very rough	High	Very high
Sea State Code Chart in the guidelines.	(glassy)	(rippled)	(wavelets)						

42. Sea State: Boxes are provided with different options. After reading the definitions below choose the box that best represents what the sea state looked like during the trip, and encircle that option.

Sea State Code Chart (After the World Meteorological Organization)

WMO Sea State Code	Wave height	Characteristics
0	0 metres (0 ft)	Calm (glassy)
1	0 to 0.1 metres (0.00 to 0.33 ft)	Calm (rippled)
	0.1 to 0.5 metres (3.9 in to 1 ft	Smooth
2	7.7 in)	(wavelets)
	0.5 to 1.25 metres (1 ft 8 in to	
3	4 ft 1 in)	Slight
	1.25 to 2.5 metres (4 ft 1 in to	
4	8 ft 2 in)	Moderate
	2.5 to 4 metres (8 ft 2 in to	
5	13 ft 1 in)	Rough
6	4 to 6 metres (13 to 20 ft)	Very rough
7	6 to 9 metres (20 to 30 ft)	High
8	9 to 14 metres (30 to 46 ft)	Very high
9	Over 14 metres (46 ft)	Phenomena

WATER COLOUR

WATER COLOUR (encircle one): see the	Blue	Milky	Blue-	Green	Dark	Light	Red/Reddish/	Pink	Purple	Seaweed
Water Colour Description Chart in the guidelines.		turquoise-purple	green		green	brown	Red strikes			present

43. Boxes are provided with different options. After reading the definitions below, choose the box that best represents the water colour during the trip, and encircle that option.

WATER COLOUR DESCRIPTION

Colour of water	Characteristics
blue	Very little – no plankton
	phytoplankton that make microscopic spheres
milky turquoise-blue	composed of calcium carbonate plates
	Phytoplanktons are present (not very high
Blue green	concentration)
	Phytoplanktons are present (medium
green	concentrations)
Dark green	Phytoplanktons are present (high concentrations)
Light brown	silt-laden water
Red/Reddish/Red	Red tide (could be associated with harmful algal
strikes	blooms).
Pink	could be associated with harmful algal blooms
Purplish	could be associated with harmful algal blooms

44. Indicate whether the invasive seaweed was present where you fished by encircling the pink box that says "Seaweed present".

COMMENTS & OBSERVATIONS

- **45.** Write in the space provided any additional notes, information or observations during the trip in this section. These comments and observations could relate to those listed below or any additional information provided:
 - a. the possible reasons for poor or no catches on the fishing trip;
 - b. any loss of fishing gear;
 - c. any damage observed regarding a FAD;
 - d. quantity of bait (natural) purchased or used on the fishing trip;
 - e. details of any vessels fishing illegally.

SUBMISSION OF LOGSHEET

- **46. Name of fisher (in BLOCK letters):** Write in the name of the fisher who submitted the information on the logsheet in BLOCK or CAPITAL letters.
- **47. Signature of person filling in the logsheet:** The person who filled in the form should sign in this position. Please note that fishers may ask someone to physically write the information, but the fisher must provide the information for the person to complete the form.
- **48. Date of completion of logsheet (day/month/year):** Using the format of day/month/year, write the date on which the log sheet was filled in.

FOR OFFICIAL USE

Do not write in this section. This section will be completed by relevant personnel from the Fisheries Division.

Species	Source
Skipjack tuna	http://www.big5fishing.com/fish/skipjack_tuna.html
Frigate tuna	http://www.mexicogamefishid.com/frigate%20tuna.html
Bullet tuna	http://www.mexicogamefishid.com/bullet%20tuna.html
Little tunny	http://www.eurofishmarket-magazine.com/?lng=eng
Atlantic bunito	https://en.wikipedia.org/wiki/Atlantic_bonito#/media/File:Sarda_sarda.jpg
Blackfin tuna	https://en.wikipedia.org/wiki/Blackfin_tuna#/media/File:Blackfin_tuna,_Duane _Raver_Jr.jpg
Albacore tuna	https://en.wikipedia.org/wiki/Albacore#/media/File:Thunnus_alalunga.png
Cero mackerel	http://www.kingfishconnection.com/content/science-behind-species-king-mackerel-337/
Yellowfin tuna	https://www.igfa.org/species/60-tuna-yellowfin.aspx?CommonName=60-tuna-yellowfin.aspx – originally from Diane Rome Peebles (1992)
King mackerel	http://www.fish4fun.com/kingfish1.htm
Bigeye tuna	https://en.wikipedia.org/wiki/Bigeye_tuna#/media/File:Thunnus_obesus.png
Wahoo	http://www.floridasportsman.com/sportfish/wahoo/
Common dolphin fish	http://www.sodahead.com/living/have-you-ever-tasted-dolphin-meat/question-4737590/
Great barracuda	http://www.billfishtacklesupply.com/gamefish/barracuda.htm
Blue marlin	https://www.igfa.org/species/63-marlin-blue-pacific.aspx?CommonName=63-marlin-blue-pacific.aspx
White marlin	https://www.igfa.org/species/64-marlin-white.aspx?CommonName=64-marlin-white.aspx
Atlantic sailfish	https://www.rodnreel.com/gulffish/gulffish.asp?cmd=print&fishid=56
Swordfish	http://www.fishwallpapers.com/swordfish/
Blue shark	http://www.spc.int/Oceanfish/en/ofpsection/sam/264-new-research-plan-provides-a-blueprint-for-addressing-shark-issues-in-the-western-and-central-pacific
Oceanic whitetip shark	http://imagestack.co/138389695-oceanic-whitetip-shark-carcharhinus-longimanus.html (Photo credit / source: www.cites.org)
Night shark	http://www.biodiversityexplorer.org/chondrichthyes/elasmobranchii/galeomorphii/carcharhinus_signatus.htm
Bigeye thresher shark	http://www.floridagamefishing.net/thresher-shark.html
Silky shark	http://www.globalfishmounts.com/silky-shark-fishmount-p/ssk.htm
Shortfin mako shark	http://www.spc.int/Oceanfish/en/ofpsection/sam/264-new-research-plan-provides-a-blueprint-for-addressing-shark-issues-in-the-western-and-central-pacific

COMPLETED SAMPLE LOGSHEET

VESSEL (BOAT) DETAILS

Name of Boat:	
	/65
_	L JOHN
TOP HIL	L, ST VINCENT
	453 6524
Site from which boat operates:	BOTTOM TOWN BEACH

Please detach and return the completed original logheets of this logbook to the Fisheries Division every two weeks. The carbon copy sheets are to be retained by the fisher for his/her personal use.

If found please return booklet to the Fisheries Division Kingstown P.O. St. Vincent and the Grenadines Tel: 784 456 2738 FAD Fishing Trip Logsheet [insert unique identifier number of logbook here and repeat on each page of the logbook] [insert logsheet #]

Boat Nan	ne: JONA F	1					Boat re	gistration	number:	SV65			
Departure site (see map to identify site):				4 I							ne: 5:30 a.r	n.	
Landing site (see map to identify site): B				Landing date (day/month/year): 02/04/15 Landing time						2:30 p.m	2:30 p.m.		
FISHING EFFORT			Number of Fishers: 2										
	es: TR: troli						See n	nap to ide	entify FAI) # or fishing a	ırea		
HL: Handline DL: Dropline; LL: Longline RR: Rod & Reel											r fishing ar	rea:	
Gear used (select from above):			The second secon			HL; LL							
Number of lines		1			1; 3								
Number of hooks		5.00				177.5	150						
		1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				1; 150							
Number of hours fished:									_				
Day (D) or night (N) fishing:		D v h N□			D v N D			Do	Do No				
Total number of boats fishing:		3				4							
Depth fished: □ feet □ metres (tick one)			20				150						
c . mor	.			-		(815)	100		-); Whole (W)			
CATCH	1		Type: Artifici					-) ed on a scale (t	ick one)		
FAD#/	Species	,, eigi	nes in (j 105 ⊔			-	Gear Typ		Bait	Weight		Weight	Unit
fishing area	Брене		(encircle which				(encircle which		Caught		Sold	Price	
1	Dolphinfish		- 10		F W	TR (HI) D	L LL RR	Lure	14	1	14	9.00	
1	Dolphinfish				F W	TR HL D		Dully	150	14	150	9.00	
1	Blackfin tuna		21121	ЭІ Н		TR (HI) D		Dully	30	6	30	8.00	
N-X	Blackfin tuna		GU (Э Н	F W	TR HL D	LLL	Bally	100 50	10	50	8.00	
2	Dolphinfish		GU	ЭDН	F W	TR HLD	L LL RR	Lure	28	2	28	9.00	
2	Dolphinfish		GU (H (E	F W	TR HL D	LLLR	Bally	100 200	18	200	9.00	
2	Blackfin tuna		GU GI H F W TR WID			L LL RR	Ballyl	15	2	15	8.00		
2	Blackfin tuna		GU (ЭІ Н	F W	TR HL D	LLRR	Bally	25	3	25	8.00	
2	Skipjack tuna		GU GI H F W TR		TR (HI) D	DL LL RR Bally		20	6	6 20	7.00		
2	Skipjack tuna		GU GI H F <equation-block> TR HL D</equation-block>		LLRR	Ballyl	25	8	25	7.00			
				GU (н н	F W	TR HL D	L LL RR					
				GU (ЭІ Н	F W	TR HL D	L LL RR					
	BY-CATCH Turtles		Furtles	Seabirds Sharks		Whales I		Dolphins	Dolphins Porpoise		Manatee Other		
Number Kept Number discarded dead													
	discarded de discarded ali		1	2									
							1.0						
FISHING	G —		spent in XCD f				All residences	1	00		nd 1 44		A 45
COSTS	Fuel: \$4	ЮО	Oil: \$40	The second processing of the second processing and the second processi							Other (specify	Aller Price and	
						- Titman	□ (tick one)	I Amoun	t of oil use	d for the trip:	Gallons □	Litres □ (t	ick one)
	Amount	of fuel 1	used for the tri	p: G	allons	□ Liues i							
	Amount ATE (encircle Code Chart in	e one): s	ee the	p: G Calm (glassy)		alm ippled)	Smooth (wavelets)	Slight	Moder	ate Rough	Very rough	High \	Very high
Sea State 0	ATE (encircle Code Chart in	e one): s the guid	see the delines.	Calm (glassy)		alm ippled)	Smooth (wavelets)	Slight	reen Dar	k Light Red	1/Reddish/Pin		Seaweed
WATER Water Col	ATE (encircle Code Chart in R COLOUR lour Description	e one): s the guid (encircle on Chart	ee the delines. e one): see the tin the guidelines.	Calm (glassy) nes.) Ca	alm ippled) ie Milky turque	Smooth (wavelets)	Slight Blue-	reen Dar	k Light Rec	1/Reddish/ Pin 1 strikes	ık Purple	Seaweed present
WATER Water Col	ATE (encircle Code Chart in R COLOUR COLOUR COLOUR Description	e one): s the guid (encircle on Chart	ee the delines. e one): see the t in the guidelines. ATIONS:	Calm (glassy) nes. 2 lures	Blu lost,	alm ippled) me Milky turquo 10 lbs o	Smooth (wavelets)	Slight Blue- green used on	reen Dai gre trip; ves	k Light Rec	1/Reddish/ Pin 1 strikes	ık Purple	Seaweed present
WATER Water Col COMMI	ATE (encircle Code Chart in R COLOUR lour Description ENTS & OE	e one): s the guid (encircle on Chart	ee the delines. e one): see the tin the guidelines. ATIONS:	Calm (glassy) nes. 2 lures	Bh lost,	alm ippled) ne Milky turquo 10 lbs o	Smooth (wavelets) Tobise-purple of ballyhoo etters)	Slight Blue- green used on	trip; ves	k Light Recent brown Recent with mark	1/Reddish/ Pin 1 strikes sing XPC24 f	k Purple	Seaweed present
WATER Water Col COMMI	ATE (encircle Code Chart in COLOUR CO	e one): s the guid (encircle on Chart 3SERV	ee the delines. e one): see the t in the guidelines. ATIONS:	Calm (glassy) nes. 2 lures	Bh lost,	alm ippled) ne Milky turquo 10 lbs o	Smooth (wavelets) Tobise-purple of ballyhoo etters)	Slight Blue- green used on	trip; ves	k Light Rec	1/Reddish/ Pin 1 strikes sing XPC24 f	k Purple	Seaweed present
WATER Water Col COMMI	ATE (encircle Code Chart in COLOUR CO	e one): s the guid (encircle on Chart 3SERV	ee the delines. e one): see the tin the guidelines. ATIONS:	Calm (glassy) nes. 2 lures	Bh lost,	alm ippled) ne Milky turquo 10 lbs o	Smooth (wavelets) Tobise-purple of ballyhoo etters)	Slight Blue- green used on	trip; ves	k Light Recent brown Recent with mark	d/Reddish/ Pind strikes Aring XPC24 for Month/year):	k Purple	Seaweed present
WATER Water Col COMMI SUBMIS Signature FOR OF	ATE (encircle Code Chart in R COLOUR	e one): s the guid (encircle on Chart 3SERV	ee the delines. e one): see the tin the guidelines. ATIONS:	Calm (glassy) nes. 2 lures e of fish	Bh lost,	alm ippled) ne Milky turquo 10 lbs o	Smooth (wavelets) Tobise-purple of ballyhoo etters)	Slight Blue- green used on	trip; ves	k Light Recent brown Recent with mark	d/Reddish/ Pind strikes Pind strik	k Purple	Seaweed present

The CRFM is an inter-governmental organization whose mission is to "Promote and facilitate the responsible utilization of the region's fisheries and other aquatic resources for the economic and social benefits of the current and future population of the region". The CRFM consists of three bodies – the Ministerial Council, the Caribbean Fisheries Forum and the CRFM Secretariat. CRFM members are Anguilla, Antigua and Barbuda, The Bahamas, Barbados, Belize, Dominica, Grenada, Guyana, Haiti, Jamaica, Montserrat, St. Kitts and Nevis, St. Lucia, St. Vincent and the Grenadines, Suriname, Trinidad and Tobago and the Turks and Caicos Islands.

This model logbook was developed through a joint collaboration between the CRFM and the JICA-funded Caribbean Fisheries Co-Management (CARIFICO) Project in which the following six CRFM Member States are participating, Antigua and Barbuda, Dominica, Grenada, St Kitts and Nevis, St Vincent and the Grenadines and Saint Lucia. The main purpose of the logbook is to involve fishers in the collection of data which will provide a wide range of information to help make the best possible decisions concerning the management of FAD fisheries. In addition, the logbook will enable fishers to keep records of their fishing operations to facilitate better fishing trip planning and business planning.

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