SPC/FFA REGIONAL PURSE SEINE OBSERVER
SET DETAILS

FORM PS - 3

REV. 2018

OBSERVER NAME	VESSEL NAME	PAGE	OF
			(SET No.)

OBSERVER TRIP I.D. NUMBER	START OF SET DATE AND TIME		START OF SET DATE AND TIME	
	OBSERVER: (see PS-2)	YY MM DD hh mm	VESSEL LOG:	YY MM DD hh mm

SET SEQUENCE TIMES

EVENT:	if SSI OBSERVED (Obs Time Sighted)	START OF SET (SKIFF OFF)	BEGIN PURSING	END PURSING	BEGIN BRAILING	END OF BRAILING / SACK ONBOARD	END OF SET (NEXT ACTIVITY STARTS)
TIME:							

SET CATCH DETAILS

brail capacity sum of all brails Total catch

OBSERVER's BREAKDOWN of TOTAL TUNA CAUGHT - circle YES or NO for each species

N.B.: these calculations include all the tuna in this catch, whether retained or discarded

([ ] mT x [ ]) = [ ] mT

Type 1 brail (see PS-1 form) (see PS-4 form)

less bycatch (see below) [ ] mT

+

Type 2 brail

([ ] mT x [ ]) = Total tuna catch [ ] mT

	SKIP-JACK	YELLOWFIN				BIGEYE			
		SMALL (< 75 cm)	LARGE (> 75 cm)			SMALL (< 75 cm)	LARGE (> 75 cm)		
	YES	(%)	YES	(%)	YES	(%)	NUMBER	YES	(%)	YES	(%)	NUMBER
	NO		NO		NO			NO		NO		

BY-CATCH (ALL NON-TARGET SPECIES & ALL SSI LANDINGS)

SPECIES CODE	FATE CODE	OBSERVER (mT)	No.	VESSEL LOG (mT)	No.	SSI CONDITION CAUGHT / DISCARD	COMMENTS / SSI TREATMENT		Target Tunas	SKJ	YFT	BET
									A. OBSERVER estimates of total of each species caught (mT)			
								Observer	FATE a. (mT)			
								Vessel	FATE (mT)			
								Observer	FATE b. (mT)			
								Vessel	FATE (mT)			
								Observer	FATE c. (mT)			
								Vessel	FATE (mT)			

Total weight of bycatch: [ ] mT [ ] mT

B. OBSERVER totals (mT) discards + RCC (a+b+c):

SPECIES OF SPECIAL INTEREST
Interactions with primary gear **(not landed)**

SPECIES CODE	GEAR INTERACTION CODE	OBSERVER (mT)	No.	CONDITION Captured Released	COMMENTS / SSI TREATMENT				
						Tuna kept onboard for later unload	if not RWW	FATE	
								OBS (mT)	
								VES (mT)	
							FATE	RWW	RWW	RWW
							OBS (mT)			
							VES (mT)			
						Due to gear break bycatch mitigation	ESC	ESC	ESC
						estimates	OBS (mT)		
							VES (mT)		

How many Tags were recovered? [ ]   Record species and tag numbers. Fill tag recovery forms!

FATE CODES

RWW	Retained - whole weight	DFR	Discarded trunk - fins retained (shark only)	DPQ	Discarded - poor quality		GEAR INTERACTION CODES
RHG	Retained - headed and gutted (billfish only)	DTS	Discarded - too small (tuna only)	DOR	Discarded - other reasons (specify)	IEN -	Entangled (in gear)
RGG	Retained - gilled and gutted (kept for sale)	DGD	Discarded - gear damage (tuna only)	ESC	Escaped	IJO -	Jumped out (over net)
RPT	Retained - partial (e.g. fillet, loin)	DVF	Discarded - vessel fully loaded	(use these fate codes for any SSIs landed on deck)		ICR -	Crew released from net
RCC	Retained - crew consumption (onboard)	DUS	Discarded - unwanted species	DPA - Discarded Protected Species - Alive		IBR -	Broke through net
ROR	Retained - other reason (specify)	DSD	Discarded - shark damage	DPD - Discarded Protected Species - Dead		IRN -	Roped, pulled from net
RFR	Retained trunk - fins retained (shark only)	DWD	Discarded - whale damage	DPU - Discarded Protected Species - Unknown		OTH -	Other, please specify

(A PS-3 form **must** be filled out for the first and every set (recorded as *activity code* 1 on PS-2) - whether monitored or not, even if a skunk set.) (For the very rare occassion that a set is not monitored the column for the vessel's estimate of catch must still be completed.) (N.B.: A PS-4 form is not required for skunk set.)

OBSERVER NAME		Print first name first and last name last. E.g.: "John Smith" not "Smith John". Print clearly !
VESSEL NAME		Full unabbreviated name. E.g.: a boat with name "Captain Paul Catchit" should not be abbreviated to Capt. P.Catchit.
PAGE OF		Number each PS-3 form from start until end of trip. Because one PS-3 is used for every set this is also the set No.
START of SET	**Observer (PS-2)**	The exact date and time that the observer recorded for this set on the PS-2. Record as year/month/day.
DATE and		
TIME	**Vessel (logsheet)**	The exact date and time that the vessel has recorded for this set on their PS Log Sheet. Record as year/month/day.

If SSI Observed (Obs Time Sighted)	Mark the time the observer first noticed the species of special interest. Only required for SSIs that eventually end up inside the net or were landed (i.e not required for sighted SSIs).

SET SEQUENCE

BEGIN SET (SKIFF OFF)	Exact same time as recorded on the daily log (PS-2) and in the "Observer Start of Set Date and Time" section.
BEGIN PURSING (WINCH ON)	The purse wire will be thrown to the vessel from the skiff, and it will then be attached to the winch. Record the time the winch is switched on.
END PURSING (RINGS UP)	During the winching, a bunch of rings will come on board. Record the time when the last of the rings appears. This indicates the net has totally enclosed (pursed) the fish and they cannot escape.
BEGIN BRAILING	Record the time the vessel starts the brailing process. This will have been recorded on the PS-4 form. If there was no brailing just record a dash.
END BRAILING / SACK ONBOARD	Record the time when the vessel finishes brailing. If there was no brailing record the time that the sack was lifted up on to the deck.
END SET (NEXT ACTIVITY START)	Next activity START marks end of set (no later than 'skiff comes on board').Record the activity change on PS -2.

SET CATCH / CAPTURE DETAILS

TOTAL CATCH and TOTAL TUNA CATCH

Brail Capacity	Find on the PS-1. Use to calcualte total catch. **'Brail capacity' x 'Sum of all brails' = 'TOTAL CATCH'**
Sum of all brails	After calculating the total number of brails on the PS-4 form (for the same set) transfer your answer here.
Type 1 and	... if a 2nd brail type is also used for this set samples, estimates of the brail capacity for both brail types must be made. Fill the 'brail capacity' and the 'sum of all brail' fields for both the 'type 1' and the 'type 2' brails. Add calculations of total catch from each brail type together to get a single "TOTAL CATCH" figure.
Type 2 brails	(If there is no 'type 2' brail (which is normal) then simply record a dash in each of the 'type 2' fields and all other calculations will be based only on the 'type 1' brail information that is provided.)
TOTAL CATCH	This is the combined weight of all the (target and bycatch species) fish brought onboard.
less bycatch	Calculate the amount of bycatch (in mT) that is in the catch in the bycatch area below and transfer to this field.
TOTAL TUNA CATCH	Subtract the total amount of bycatch from the TOTAL CATCH to get TOTAL TUNA CATCH. This includes all tuna caught whether or not it is later discarded. It does not include tuna that escaped **alive** from net.

	YES or NO	YES' or 'NO' **must** be circled to show if SKJ, small YFT, large YFT, small BET, large BET were even seen in the catch.
OBSERVER's BREAKDOWN of TOTAL TUNA CAUGHT	**%**	Carefully eye-estimate the **percentage of the TOTAL TUNA** for each species (+ each size category for YFT and BET) N.B.: **%** of small (or large) YFT (or BET) is the **%** of **TOTAL TUNA** ! NOT **%** of that species of tuna.
	Number	If there are not many large YFT or BET and good estimate of number can be made record number of large YFT (or BET) If a **good** estimate (counts) is not easy, dash the 'number' field. **Do not** make a rough estimate !

BY-CATCH SPECIES CODE	Record every species that lands on deck with the three letter FAO species code.
FOR SPECIES OF SPECIAL INTEREST *1. (under 'Bycatch - all non-target species & all SSI landings)*	In the normal manner, record any SSIs that land on deck, estimate total weight and number. Fill in a condition code to indicate the status of the SSI when landed and when discarded/ released. Note SSIs cannot be kept onboard (injured turtle may be while recorvering). Use a second line if different condition codes for same species (i.e. Landed: 10 FAL A1, 5 FAL A3). These landed SSIs are no longer recorded on Gen-2 form. Describe interaction / Treatment / Release in comments, journal, report. Use new PS 4 sample type - 'other' to record length and sex of landed SSIs.
2. (under SSI 'Interactions with primary gear- not landed)	Record any SSIs you see inside or touching the primary gear (net), but are not subsequently landed onto the deck in this area. Use the **new gear interaction codes** instead of the normal fate codes in this area. Record their condition (A0- alive, A1- alive and healthy, A2 - alive injured, A3 - alive but dying, D - Dead, U - unknown) under the Condition data fields, for when first observed as captured and when released.
3. Comment / SSI Treatment	Add some notes on how the vessel handled or treated the SSI. Example -'released by lowering net etc'.

FATE CODE		Use fate codes provided to say what happened to each species landed Use 1 line per species/fate group. Remember that a species may be split into groups each with a different fate code. Eg: RRU RWW 2 mT RRU DTS 0.5 mT **REMEMBER** - use only one (the best and most informative) code for each line.
OBSERVER	**(mT)**	Calculate the amount of each species caught, in each fate code category, using an appropriate assessment technique. Use mT. For instance if 300 kg of Mahi mahi and 40 kg of wahoo were caught - record 0.3 mt DOL /0.04 mt WAH.
	Number	Only record a number if an accurate count is possible. Large amounts are recorded in "mT". If possible record both.
VESSEL LOG	**(mT)**	Copy the figures recorded by the ship's officers on the Vessel Logsheet, for this set.
	Number	Place a dash in the column if they have not recorded the species.
Total weight of bycatch		Calculate from the fields above for observer (important for use in 'Total Tuna' calculation) and vessel bycatch estimates.

TARGET TUNA

A. **OBSERVER estimates of total caught**	Calculate the combined large and small **%** x **Total tuna catch** for each species (SKJ, YFT and BET)
FATE	Record fate of discarded tuna or tuna retained for crew consumption (RCC), using fate codes listed at bottom of form.
OBS (mT)	Give a careful approximation (eye-estimate) of the total amount of catch for the relevant fate /species code combination. Record the amounts in metric tonnes.
VES (mT)	Copy the weight, as recorded for each species in the vessel's logsheet. If nothing is recorded in the logsheet place a dash in the data field. If "0" is recorded on the logsheet record "0" here.
B. **OBSERVER totals (mT) discards + RCC**	For each species add together the mT amounts that are recorded in the rows 'a.', 'b.' and 'c' to get the total of all the discarded and the retained for crew consumption (RCC) combined for that species.
Tuna kept onboard for later unload	Usually tuna are retained whole weight (RWW). If so then RWW can be calculated as (A. - B.) for each species. If tuna is otherwise retained onboard for later unload (fate = R??) then A. - B. = the combined total of RWW + R??
Due to gear break / bycatch mitigation ESC	Best observer estimate of mT of any live tuna that escaped during set. Refer to Captain for any tuna seen escaping via sonar. Include any live tuna escaped from gear breakage or because vessel trys to release important bycatch. N.B. This does not include dead tuna that are released from the net after a breakdown during or after net sac-up = discards.

TAGS

How many tags were recovered ? *species and tag numbers*	Note the number of tags found during this set. Look out for tags on tuna, billfish, sharks, turtles, birds, etc. Record **tag number** and **species**. Note tag colour, tagging organisation and any unusual features about condition. Fill these and other tag details into the tag recovery form.