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Indian Ocean Tuna Commission
Commission des Thons de l'Océan Indien

Data Gathering Processes Onboard Tuna Purse-seiners IOTC ROS Standard Minimum Data Collection Fields



IOTC ROS SFO TR 18.3

Category: Purse-seine onboard data collection and recording

[IOTC ROS TR18]



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This training module aims to familiarize Observers with the data gathering processes and IOTC ROS Standard Minimum Data Collection Fields.

Agreed IOTC ROS Observer competency standards on this training requirement includes:

- ✓ **Candidate is aware of IOTC ROS Standard Minimum Data Collection Fields and onboard data gathering processes.**

The achieving of these standards is demonstrated by candidate capacity to:

- ✓ **Gather the data and information needed to complete each data collection form and understand the importance to collect and report mandatory data fields.**



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IOTC ROS Data Collection Fields & Reporting Definitions

**DFs MANDATORY
FOR REPORTING
(MR)**

Data fields that are always to be collected and reported by the CPC National Observer Programme to the IOTC Secretariat.

**DFs MANDATORY
FOR REPORTING
WHEN COLLECTED
(MR-WC)**

Data fields that are to be reported to the IOTC Secretariat when collected by the CPC National Observer Programme.

**DFs OPTIONAL
FOR REPORTING
(OR).**

Data fields that should ideally be collected by CPCs National Observer Programmes, based on best practice as agreed by the IOTC, but do not need to be reported to the IOTC Secretariat.



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Data Field Classification

MANDATORY FOR REPORTING

*Highlighted in
grey*



MANDATORY FOR REPORTING WHEN COLLECTED

*Highlighted in
grey*

OPTIONAL FOR REPORTING (OR).

In white

Visual Translation of Data Fields Classification on Paper Forms

  IOTC REGIONAL OBSERVER SCHEME		FORM 1-PS (pg. 1)	
VESSEL AND TRIP INFORMATION SHEET			
<small>Revised February 2022</small>			
OBSERVER INFORMATION			
Observer identification			
Observer trip number <input type="text"/>		1. Observer IOTC registration number <input type="text"/>	
2. Observer full name <input type="text"/>		3. Observer nationality <input type="text"/>	
Observer trip details collect all dates and times in Coordinated Universal Time (UTC)			
4. Location of embarkation (country and port or at-sea) COUNTRY PORT (name) AT SEA (✓) <input type="text"/> <input type="text"/> <input type="text"/>		6. Location of disembarkation (country and port or at-sea) COUNTRY PORT (name) AT SEA (✓) <input type="text"/> <input type="text"/> <input type="text"/>	
Position of embarkation (dd° mm' ss") specify quadrant (circle) LATITUDE LONGITUDE <input type="text"/> S N <input type="text"/> E W		Position of disembarkation (dd° mm' ss") specify quadrant (circle) LATITUDE LONGITUDE <input type="text"/> S N <input type="text"/> E W	
5. Date / time of embarkation (UTC) DD MM YYYY hh mm <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>		7. Date / time of disembarkation (UTC) DD MM YYYY hh mm <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	
VESSEL INFORMATION			
Vessel identification			
8. Vessel name <input type="text"/>		9. Vessel flag/chartering state <input type="text"/>	
11. Vessel IMO or Lloyds number <input type="text"/>		12. International radio call (IRCS) <input type="text"/>	
14. Vessel registration number <input type="text"/>		15. Vessel phone(s) <input type="text"/>	
17. Vessel email(s) <input type="text"/>		18. Licensed target species (FAO codes) <input type="text"/>	
		16. Vessel fax(es) <input type="text"/>	
		19. Main fishing gear <input type="text"/>	
		Tuna Purse-seine (TPS)	
Vessel owner and personnel			
<u>Registered owner</u> 20. Full name <input type="text"/>		<u>Charter operator</u> 23. Full name <input type="text"/>	
21. Nationality <input type="text"/>		24. Nationality <input type="text"/>	
22. Contact details <input type="text"/>		25. Contact details <input type="text"/>	
<u>Fishing master</u> 26. Full name <input type="text"/>		<u>Skipper (Captain)</u> 28. Full name <input type="text"/>	
27. Nationality <input type="text"/>		29. Nationality <input type="text"/>	
		30. Crew n° <input type="text"/>	





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iotc ctoi

Data Field Classification

MANDATORY FOR REPORTING (MR)

*Highlighted in
light blue*

MANDATORY FOR REPORTING WHEN COLLECTED

*Highlighted in
green*

OPTIONAL FOR REPORTING (OR)


In white

Visual Translation of Data Fields Classification on Excel Forms

ROS_reportin

Fichier Accueil Insertion Dessin Mise en page Formules Données Révision Affichage Aide Nitro Pro Rechercher des out

C7 X ✓ fx

 **IOTC REGIONAL OBSERVER SCHEME** **FORM 1-LL**
VESSEL AND TRIP INFORMATION SHEET

Observer information			
Observer identification			
1. Observer IOTC registration number	Observed trip number	2. Observer full name	3. Observer nationality
Observer trip details			
4. Location of embarkation		6. Location of disembarkation	
In port embarkation		in port disembarkation	
Country	Port	Country	Port
At sea embarkation		At sea disembarkation	
Latitude	Longitude	Latitude	Longitude
dd mm ss N-S	dd mm ss E-W	dd mm ss N-S	dd mm ss E-W
5. Date / time of embarkation (UTC)		7. Date / time of disembarkation (UTC)	
DD MM YYYY	hh mm	DD MM YYYY	hh mm
Vessel information			
Vessel identification			
8. Vessel name	9. Vessel flag / chartering state	10. Vessel IOTC number	11. Vessel IMO or Lloyds number
12. International radio call (IRCS)	13. Vessel port of registration	Vessel country of registration	14. Vessel registration number
15. Vessel phone(s)		16. Vessel fax(es)	
17. Vessel e-mail(s)			
18. Licensed target species (FAO codes)			
19. Main fishing gear			
DLL			
Vessel owner and personnel			

References 1-LL 2-LL 3-LL 4-LL 5-LL 6-LL 7-LL T0 - Species (ALL) T1 - Species (IOTC) T2 - Species (ot



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ONBOARD DATA GATHERING PROCESSES

IOTC Form 1-PS requires Observers to collect information on:

- **Vessel identification** (*name, flag, IOTC, IMO, IRCS and registration numbers, port of registration, fishing licences and contact details*);
- **Vessel owner and personnel** (*names, contact details, etc.*);
- **Vessel attributes** (*GT, LOA, material, fish storage type & capacity, etc.*); and
- **Vessel electronics.**

These information can be gathered onboard via the:

- ✓ Inspection of vessel records and certificates
- ✓ Interview of crew and officers
- ✓ Inspection of vessel electronics





IOTC REGIONAL OBSERVER SCHEME VESSEL AND TRIP INFORMATION SHEET		FORM 1-PS (pg. 1)
Revised September 2020		
OBSERVER INFORMATION		
Observer identification		
1. Observer IOTC registration number <input style="width: 100%;" type="text"/>	Observer trip number <input style="width: 100%;" type="text"/>	
2. Observer full name <input style="width: 100%;" type="text"/>	3. Observer nationality <input style="width: 100%;" type="text"/>	
Observer trip details collect all dates and times in Coordinated Universal Time (UTC)		
4. Location of embarkation (country and port or at-sea) COUNTRY PORT (name) AT SEA (√) <input style="width: 20%;" type="text"/> <input style="width: 40%;" type="text"/> <input style="width: 40%;" type="text"/>		6. Location of disembarkation (country and port or at-sea) COUNTRY PORT (name) AT SEA (√) <input style="width: 20%;" type="text"/> <input style="width: 40%;" type="text"/> <input style="width: 40%;" type="text"/>
Position of embarkation (dd° mm' ss") specify quadrant (circle) LATITUDE LONGITUDE <input style="width: 20%;" type="text"/> S N <input style="width: 20%;" type="text"/> E W		Position of disembarkation (dd° mm' ss") specify quadrant (circle) LATITUDE LONGITUDE <input style="width: 20%;" type="text"/> S N <input style="width: 20%;" type="text"/> E W
5. Date / time of embarkation (UTC) DD MM YYYY hh mm <input style="width: 10%;" type="text"/> <input style="width: 10%;" type="text"/> <input style="width: 10%;" type="text"/> <input style="width: 10%;" type="text"/> <input style="width: 10%;" type="text"/> <input style="width: 10%;" type="text"/>		7. Date / time of disembarkation (UTC) DD MM YYYY hh mm <input style="width: 10%;" type="text"/> <input style="width: 10%;" type="text"/> <input style="width: 10%;" type="text"/> <input style="width: 10%;" type="text"/> <input style="width: 10%;" type="text"/> <input style="width: 10%;" type="text"/>
VESSEL INFORMATION		
Vessel identification		
8. Vessel name <input style="width: 100%;" type="text"/>	9. Vessel flag/chartering state <input style="width: 100%;" type="text"/>	10. Vessel IOTC number <input style="width: 100%;" type="text"/>
11. Vessel IMO or Lloyds number <input style="width: 100%;" type="text"/>	12. International radio call (IRCS) <input style="width: 100%;" type="text"/>	13. Vessel port/country of registration <input style="width: 100%;" type="text"/>
14. Vessel registration number <input style="width: 100%;" type="text"/>	15. Vessel phone(s) <input style="width: 100%;" type="text"/>	16. Vessel fax(es) <input style="width: 100%;" type="text"/>
17. Vessel email(s) <input style="width: 100%;" type="text"/>	18. Licensed target species (FAO codes) <input style="width: 100%;" type="text"/>	19. Main fishing gear Tuna purse seine (TPS)
Vessel owner and personnel		
<u>Registered owner</u> 20. Full name 21. Nationality <input style="width: 40%;" type="text"/> <input style="width: 40%;" type="text"/>		<u>Charter operator</u> 23. Full name 24. Nationality <input style="width: 40%;" type="text"/> <input style="width: 40%;" type="text"/>
22. Contact details <input style="width: 100%; height: 40px;" type="text"/>		25. Contact details <input style="width: 100%; height: 40px;" type="text"/>
<u>Fishing master</u> 26. Full name 27. Nationality <input style="width: 40%;" type="text"/> <input style="width: 40%;" type="text"/>		<u>Skipper (Captain)</u> 28. Full name 29. Nationality <input style="width: 40%;" type="text"/> <input style="width: 40%;" type="text"/>
		30. Crew n° <input style="width: 40%;" type="text"/>

Recording from vessel electronics

Inspection off vessel records and certificates

Recording from observer electronics (UTC date & time)





FORM 1-PS (pg. 2)

Vessel trip details

31. Port of departure (country and port or at-sea)

COUNTRY PORT (name) AT SEA (✓)

Position of embarkation (dd° mm' ss") specify quadrant (circle)

LATITUDE LONGITUDE

32. Date / time vessel sailed (use UTC)

DD MM YYYY hh mm

33. Port of return (country and port or at-sea)

COUNTRY PORT (name) AT SEA (✓)

Position of disembarkation (dd° mm' ss") specify quadrant (circle)

LATITUDE LONGITUDE

34. Date / time vessel returned to port (use UTC)

DD MM YYYY hh mm

Vessel attributes

35. Tonnage (circle correct units)

GT GRT

36. Length overall (circle correct units)

m feet

37. Hull material (circle correct code)

ALU FRP OTH STE WOO

38a. Main engines #1 (circle correct units)

Main engine make

Main engine power value

HP BHP KW

38b. Main engines #2 (circle correct units)

Main engine make

Main engine power value

HP BHP KW

39. Fish storage capacity (circle correct units)

mT m³

40. Fish preservation methods (circle preservation methods used on-board)

CWS DF FR SM DR IC NO BR RW ST

41. Fish storage type (circle storage types used on-board)

Blast freezer (BF) Refrigeration chamber (RC) Well (WL)

42. Vessel autonomy / range (circle correct units)

days nautical miles

Vessel electronics circle the correct answer

43. GPS

YES NO

44. VMS

YES NO

45. Radars

YES NO

46. Track plotter

YES NO

47. Depth sounder

YES NO

48. Sonar

YES NO

49. Doppler current meter

YES NO

50. Expendable bathythermographs

YES NO

51. VHF radios

YES NO

52. HF radios

YES NO

53. Satellite com. system

YES NO

54. SST gauge

YES NO

55. Weather facsimile

YES NO

56. FIS

YES NO

57. AIS

YES NO

WASTE MANAGEMENT (MARPOL AGREEMENT, ANNEX 5) fill in at the end of the trip

58. WASTE CATEGORY

Cardboard and paper

Kitchen waste

Metal and glass

Non-biodegradable fishing gear

Oil and fuels

Other

Plastic

59. STORAGE / DISPOSAL METHOD note "Y" or "N" to indicate how waste is stored/disposed of

At sea

Incinerated

Land disposal

Other (detail)

Retained

Unknown

OBSERVED TRIP SUMMARY [fill in at the end of the trip] [collect all dates and times in Coordinated Universal Time (UTC)]

60. Number of sets conducted with observer onboard

61. Number of sets observed

62. Number of days searching

63. No. active fishing days

64. Number of days lost

65. Reason for days lost (circle)

AWC MBG GEL OTH

66. No. days in fishing area

67. No. of days transiting





ONBOARD DATA GATHERING PROCESSES

IOTC Form 2-PS requires Observers to collect data on gear:



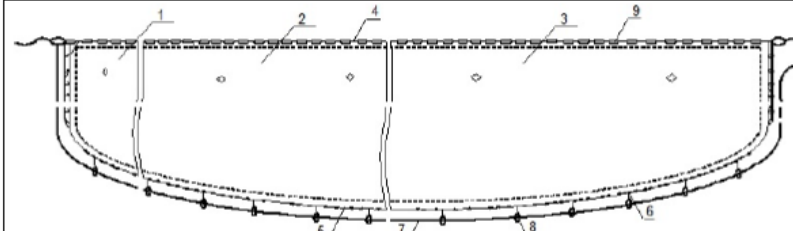
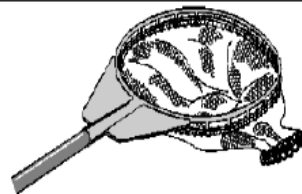
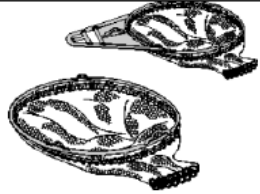
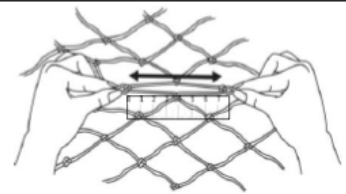
- **Special equipment or machinery** (*power block, purse winch*).
- **General gear attributes** (*maximum length and depth of the net, stretched mesh sizes, brail capacity, skiff power*).

These information can be gathered via the:

- ✓ **Inspection off vessel gear documentation**
- ✓ **Interview of crew and officers**
- ✓ **Professional observation and estimate**





 		IOTC REGIONAL OBSERVER SCHEME		FORM 2-PS	
PURSE-SEINE GEAR SPECIFICATIONS					
Revised September 2022					
Observer full name		Observer trip number			
<input type="text"/>		<input type="text"/>			
Special equipment or machinery circle either "YES" or the "NO" to indicate presence or absence of a device on-board.					
1. Power block		2. Purse winch			
<input type="checkbox"/> YES <input type="checkbox"/> NO		<input type="checkbox"/> YES <input type="checkbox"/> NO			
General gear attributes circle units used					
3. Maximum length of the net		4. Maximum depth of the net		5. Bunt stretched mesh size	
<input type="text"/> m <input type="text"/> feet		<input type="text"/> m <input type="text"/> feet		<input type="text"/> mm <input type="text"/> cm	
6. Mid-net stretched mesh size		7. Maximum brail capacity		8. Skiff power	
<input type="text"/> mm <input type="text"/> cm		<input type="text"/> tons		<input type="text"/> HP <input type="text"/> KW <input type="text"/> BHP	
Revised September 2022		Notes on FORM 2-PS			
IOTC ROS minimum standard data-fields are highlighted in this form in light grey. These are to be collected and reported to the IOTC.					
1. POWER BLOCK: A powerful hydraulic power block attached to the end of a boom used to haul the net back and restack ready for the next set. Indicate Yes if on board No if not sighted					
2. PURSE WINCH: Equipment or machinery used to winch the steel cable of the purse line that runs through the purse rings and that serve to close (purse) the bottom of the net once it has been set around a school of fish. Indicate Yes if on board No if not sighted.					
3. MAXIMUM LENGTH OF THE NET: Record the maximum length of the net according to the net specifications. This corresponds to the length of the top line. Note: specify units (preferably meters).					
4. MAXIMUM DEPTH OF THE NET: Record the maximum fishing depth of the net (preferably in meters) according to the net specifications.					
5. BUNT STRETCHED MESH SIZE: Record the mesh average stretched length (knot to knot) of the bunt (preferably in 'CM' centimetres), also called chafer or sack of the net (see purse-seine net scheme). Ask the Deck Boss. Verify value given by measuring 3 stretched mesh lengths (knot to knot) and calculating the average. If values differ, record measured average mesh size and report this on your trip report.					
6. MID-NET STRETCHED MESH SIZE: Record the mesh average stretched length (knot to knot) of the mid-net (preferably in 'CM' centimetres) also called main body or shoulder of the net (see purse-seine net scheme). Ask the Deck Boss. Verify value given by measuring 3 stretched mesh lengths (knot to knot) and calculating the average. If values differ, record measured average mesh size and report this on your trip report.					
7. MAXIMUM BRAIL CAPACITY: Record the maximum weight capacity of a full brail in metric tonnes (Mt).					
8. SKIFF POWER: Record the skiff engine power. Circle the correct unit for skiff engine power provided by vessel officers (HP, BHP, KW).					
PURSE-SEINE NET SCHEME					
				<ul style="list-style-type: none">1. Bunt (chafer or sack)2. Mid-net (main body or shoulder)3. Wing4. Float line5. Lead line (chain foot rope)6. Gavel lines (or bridle)7. Pursing wire (or purse line)8. Pursing ring (seine ring)9. Floaters	
TYPES OF BRAIL THAT CAN BE SEEN IN PURSE SEINERS			HOW TO MEASURE STRETCHED MESH SIZE		
 Long handle brail (Image © SPC)			 Heavy framed brail (Image © SPC)		
			 Ruler by FREEICONS.PNG. Image © SPC.		





ONBOARD DATA GATHERING PROCESSES

IOTC Form 3A-PS requires Observers to collect data on vessel daily activities every two hours from sunrise to sunset and at the start of every fishing event:

- **Position and vessel activity at two-hour intervals from sunrise to sunset** (*date, time, position and vessel activity*);
- **Date, time and position at the start of every fishing event** (*date, time, position and activity*).

These information can be gathered via the:

- ✓ **Inspection of vessel electronics**
- ✓ **Professional observation**





**IOTC REGIONAL OBSERVER SCHEME
SURFACE FISHERIES - DAILY ACTIVITIES**

FORM 3A-PS (pg. 1)

Page _____ of _____

Revised September 2022

Observer Name:

Observed Trip No:

1. Date UTC			2. Time UTC		3. Position <i>specify quadrant by circling it</i>						4. Activity
DD	MM	YYYY	hh	mm	LATITUDE			LONGITUDE			
						S	N		E	W	
						S	N		E	W	
						S	N		E	W	
						S	N		E	W	
						S	N		E	W	
						S	N		E	W	
						S	N		E	W	
						S	N		E	W	
						S	N		E	W	
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						S	N		E	W	
						S	N		E	W	
						S	N		E	W	
						S	N		E	W	
						S	N		E	W	
						S	N		E	W	
						S	N		E	W	
						S	N		E	W	
						S	N		E	W	

**Recording from
observer electronics
(UTC date and time)**

**Recording from
vessel electronics**

**Professional
observation**





ONBOARD DATA GATHERING PROCESSES

IOTC Form 3-PS requires Observers to collect data on fishing event:

- **Setting operations** (*start setting date, time & position, Beaufort force, time net pursed, time brailing starts and ends, time skiff onboard, net max closing depth*);
- **Tuna school information** (*sighting clues, 1st detection method, school size*);
- **Object details** (*buoy ID, artificial lights, FAD design*);
- **Cetaceans and whale sharks sightings** (*if sighted before set, species & number, if caught in the net*);
- **Information on support vessel** (*presence, name, participation*);
- **Details on the current** (*direction, speed and depth*).

These information can be gathered via the:

- ✓ Inspection of vessel electronics
- ✓ Inspection of observer electronics
- ✓ Professional observation and estimate





		IOTC REGIONAL OBSERVER SCHEME PURSEINE FISHING EVENT		FORM 3- PS Page _____ of _____
Revised September 2022		Observer Name:		Observed trip No:
				Fishing event number:
SETTING OPERATIONS collect all dates and times in Coordinated Universal Time (UTC).				
1. Start setting date and time DD MM YY hh mm <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>		2. Start setting position specify quadrant (circle) LATITUDE LONGITUDE <input type="text"/> S <input type="text"/> N <input type="text"/> E <input type="text"/> W		3. Beaufort: <input type="text"/>
4. School sighting cues: <input type="text"/> <input type="text"/> <input type="text"/>		5. First detection method: <input type="text"/>		6. School size: <input type="text"/>
7. Time net pursed: <input type="text"/> h:mm		8. Time start brailing: <input type="text"/> h:mm		9. Time end brailing: <input type="text"/>
10. Time skiff onboard: <input type="text"/> h:mm		11. Max closing net depth: <input type="text"/> m		<input type="text"/> h:mm
Object details for sets conducted on natural or artificial FADs				
12. Buoy ID: <input type="text"/>		13. Buoy equipped with artificial lights (circle) Deployed? <input type="text"/> Y <input type="text"/> N Recovered? <input type="text"/> Y <input type="text"/> N		14. Artificial FAD design use codes to describe raft and tail materials Raft: <input type="text"/> Tail: <input type="text"/>
Cetaceans and whale sharks' sightings during setting Answer questions by filing Yes or No		Support vessel Answer questions by filing Yes or No		Current That might influence set performance
15. Sighted before setting? <input type="text"/> #1 <input type="text"/> #2 <input type="text"/> #3		19. Support vessel present? <input type="text"/>		23. Direction: <input type="text"/> cardinal points
16. Species (FAO code): <input type="text"/>		20. Support vessel name: <input type="text"/>		24. Speed: <input type="text"/> knots
17. Number sighted: <input type="text"/>		21. Participation? <input type="text"/>		25. Depth: <input type="text"/> meters
18. Caught in the net? <input type="text"/>		22. Participation description: <input type="text"/>		

1. Recording from vessel electronics

2. Recording from observer electronics (UTC date & time)

3. Professional observation and estimate





ONBOARD DATA GATHERING PROCESSES

IOTC Form 4-PS requires Observers to collect data on fishing event catch details (target and non-target species and on SSIs):

- **Catch details for all species caught** (*species & fate, sampling method, number and/or weight*);
- **Specimen information on non-target species** (*condition @ capture & release*);
- **Specimen information on SSI** (*gear interaction, and way the specimen is handled by the crew*).
- **Information on tagged specimens** (*tag number, type, etc.*)

These information can be gathered via the:

- ✓ **Professional observation and estimate**
- ✓ **Inspection of vessels catch log** (*only to compare it with information gathered by the observer or collect extra information that the observer didn't collected such as retained target species weights*).





1. Professional observation and estimate





ONBOARD DATA GATHERING PROCESSES

IOTC Form 5-LL requires Observers to collect biometric data (i.e., length-frequency, weight and sex) for specimens sampled during biometric sampling periods and SSIs:

- **Set #, species & fate, sampling period and sampling method**
- **Length** (*type, value, measuring tool, straight or curved measurement*)
- **Weight** (*processing type, value, estimation method*)
- **Sex**

These information can be only gathered via :

- ✓ **Professional observation and estimate**
- ✓ **Sampling**





✓ **Professional observation and estimate**

✓ Sampling



ONBOARD DATA GATHERING PROCESSES

IOTC Form 6-LL requires Observers to collect biological information and/or biological samples (e.g., otoliths, stomachs, etc.), when requested by Observer Coordinator:

- **Set #, species & fate, sampling period and sampling method**
- **Length 1** (*type, value, measuring tool, straight or curved measurement*)
- **Length 1** (*type, value, measuring tool, straight or curved measurement*)
- **Weight** (*processing type, value, estimation method*)
- **Gender and maturity** (*sex and maturity stage*)
- **Sample collected** (*sample type and method of preservation*)

These information can be only gathered via :

- ✓ **Professional observation and estimate**
- ✓ **Sampling**





- ✓ Professional observation and estimate
- ✓ Sampling

[illegible]



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ONBOARD DATA GATHERING PROCESSES

IOTC Form 7-LL requires Observers to collect information on vessel transhipments and/or offloading (if requested by Observer Coordinator):

- **Transhipment #, date, time and position**
- **Products transhipped** (*species, processing type and quantity*)

These information can be only gathered via :

- ✓ **Inspection of vessel electronics**
- ✓ **Inspection of observer electronics**
- ✓ **Professional observation and estimate**



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IOTC REGIONAL OBSERVER SCHEME VESSEL TRANSHIPMENTS

FORM 7-PS (pg. 1)

Page _____ of _____.

Revised February 2022

Observer Name: _____ Observed Trip No: _____

Vessel transhipment #: _____

1. Start date and time (UTC):
DD MM YYYY hh mm
2. End date and time (UTC):
DD MM YYYY hh mm

3. Position (dd° mm' ss") specify quadrant (circle)
LATITUDE LONGITUDE
S N E W
4. Category (tick the correct option):
TRANSHIP FROM: _____ TRANSHIP TO: _____
NET LOAD: _____ NET OFFLOAD: _____

Product transhipped

#	5. Spp.	6. Processing type	7. Quantity (encircle unit used)	#	5. Spp.	6. Processing type	7. Quantity (encircle unit used)
1			Mt Kg No	8			Mt Kg No
2			Mt Kg No	9			Mt Kg No
3			Mt Kg No	10			Mt Kg No
4			Mt Kg No	11			Mt Kg No
5			Mt Kg No	12			Mt Kg No
6			Mt Kg No	13			Mt Kg No
7			Mt Kg No	14			Mt Kg No

7. Name of carrier / fishing vessel: _____ 8. Flag: _____
9. Call sign: _____ 10. Port of registry: _____
11. Registration number: _____ Country: _____

- Recording from vessel electronics
- Recording from observer electronics (UTC date and time)
- Professional observation and estimate
- Inspection of vessels transhipment documents



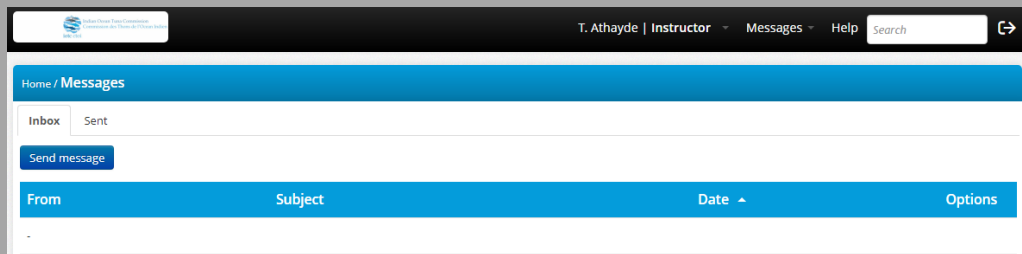


Food and Agriculture
Organization of the
United Nations



Indian Ocean Tuna Commission
Commission des Thons de l'Océan Indien

ANY QUESTIONS?



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