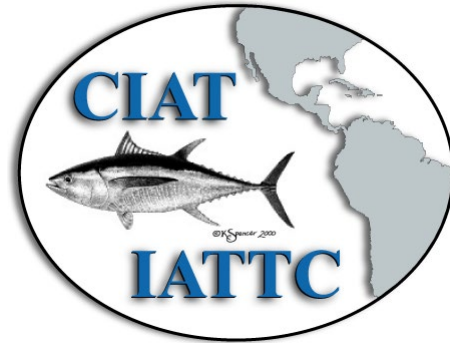


**WESTERN AND CENTRAL PACIFIC FISHERIES COMMISSION
INTER-AMERICAN TROPICAL TUNA COMMISSION**



**Procedures for the observers
participating in the Cross Endorsement
program onboard Tuna Purse Seine
vessels operating in the Eastern Pacific Ocean**

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1. INTRODUCTION

In 2011, the IATTC and WCPFC members agreed on a memorandum of cooperation on the cross-endorsement of observers aboard vessels operating in the convention areas of both organizations (the MOC). As part of the implementation of the MOC, the Secretariats of both regional bodies have put together a series of procedures for the observers of the Regional Observer Program (ROP) for observers on tuna purse seiners under the umbrella of the WCPFC, **while observing fishing activity in the IATTC convention area.**

Relevant conditions apply for the application of the cross endorsement, which includes the following:

- a) The designation of a cross-endorsed (CE) trip **must** start with the request by the national authority of the flag nation to the directors of both, the IATTC and the WCPFC. If your trip is designated as CE, the IATTC staff will inform the vessel personnel of the details, on an email that we will ask the master or the captain to show to you.
- b) A CE observer will be approved only when the IATTC and WCPFC Secretariats agree that the observer has met the necessary training requirements for operating on vessels that fish on the high seas in both Convention Areas and such requirements will be of the same standard, and other conditions that apply.
- c) It is understood that the relevant data and information requirements of each Commission will be met by the CE observers when the vessel in question is in the high seas in the respective Convention Areas.
- d) All data and information collected by observers operating on trips that extend into the high seas of the Convention Area of the other organization will be provided to both the IATTC and WCPFC Secretariats, in accordance with procedures for the respective Commission, and will be held by the respective Commission.
- e) **Data and information collected by a CE observer may be used, by the flag authority, for compliance purposes and in legal proceedings.**
- f) A CE observer remains under the control of the respective national or sub regional observer program and will be made available to fulfill duties in both Convention Areas subject to approval of such programs.

2. PROCEDURES FOR THE OBSERVER PROVIDER STAFF

2.1. Before the beginning of the fishing operations of the vessel in the EPO

Vessels that fish in the area of application of the IATTC convention ([the Antigua Convention](#)), described in Annex 1 (EPO), **must be included** in the [IATTC's Regional Vessel Registry](#) (RVR). Any vessel fishing in the EPO while not included in the RVR is considered to be fishing in contravention to the IATTC's 2002 [Resolution on fleet capacity \(C-02-03\)](#) and should be reported to the IATTC staff immediately. A list of staff members and their contact information is included in Annex 2. The only exceptions to the above stated requirement are US-flagged vessels, as described in paragraph 2.1.1.

As noted above, the process of the nomination of a CE observer must come from the national authority of the vessel which informs the Directors of both Tuna Regional Fisheries Management Organizations of the intent of a vessel to be observed with a CE observer during its fishing operations in the EPO.

If both Directors concur with the nomination, the IATTC staff replies to the national authority and communicates with the vessel and the vessel's management, with some information for the nominated observer.

Note: As there are special requirements for vessels that are allowed to fish for tunas associated with dolphins (DML Vessels) in the EPO and therefore no CE observer will be assigned to such vessels.

After the above stated notification and prior to the vessel's entering the EPO, the IATTC staff will provide the observer via a message to the vessel, with a unique identifier for the trip (IATTC trip number), which will be used by the observer in all forms described later in these procedures as well as a numeric observer code to be used at the end of the trip.

2.1.1. Vessels exempted from the requirement to be in the RVR to fish in the EPO.

IATTC's Resolution [C-02-03](#) exempts a limited number of US tuna purse seine vessels, normally operating in the WCPO, from the requirement to be included in the RVR for one trip per year, not to exceed 90 days, provided that the Director of the IATTC has approved such trip, and that they carry either an IATTC or a CE observer, and that the vessel does not possess a DML. The procedure to allow these vessels to fish must be determined by the vessel's competent authorities in conjunction with the staff of the IATTC.

2.1.2. Observer preparation

Prior to the departure of the vessel, the observer should be provided with the following EPO forms in enough quantity to perform his or her duties. The following is a brief description of the forms for informational purposes, and it should not be considered as complete instructions to fill them:

a) EPO-1: Set Summary.

Summary information of the details of the trip, departure, arrival, flag, names of the vessel, the master and the observer, as well as all the sets made and its respective catch by species.

b) EPO-2: Compliance Record.

This report is completed during the trip and includes information regarding compliance, or lack of, with the various resolutions for purse seine vessels **but only while operating in the EPO.**

c) EPO-3: International Review Panel (IRP) Report.

The IRP is an advisory body to the International Dolphin Conservation Program (IDCP) for which the IATTC serves as Secretariat. The international Agreement of the IDCP (AIDCP) includes specific requirements for vessels operating in the EPO and their interactions with marine mammals. This form includes information on compliance with those requirements. One such form should be completed by the observer describing different aspects of the gear or fishing operations in sets where marine mammals of the *Delphinidae* family (dolphins) are involved, including sets with accidental capture of dolphins **but only while operating in the EPO.**

d) EPO-4: Tuna Tracking Form.

This form includes information of the *AIDCP Dolphin-Safe* condition of the three main species of tuna (YFT, SKJ and BET). Fish caught during sets in which no injuries or mortality of dolphins occurred are considered to be *AIDCP Dolphin-Safe*. Otherwise, the fish is considered to be *Non Dolphin-Safe*. Provided that there are sets with tuna catch in the EPO and depending on the flag of the vessel, tuna catch information should be included in this form.

e) EPO-5: Marine Mammal Sighting and Set Record.

This form is completed **only if there is accidental capture of dolphins** during a set **but only while operating in the EPO.**

f) EPO-6: Sea Turtle Record.

This form is completed **only if there is interaction** between the vessel's gear and a marine turtle during a set or entangled with a monitored FAD **but only while operating in the EPO**.

g) EPO-7: Shark Record.

This form is completed **only if there is interaction** between the vessel's gear and any species of shark during a set **but only while operating in the EPO**.

h) EPO-8: Ray Record.

This form is completed **only if there is interaction** between the vessel's gear and any species of *Mobulidae* family during a set **but only while operating in the EPO**.

Additional documentation may be required if, upon the completion of the trip, the IATTC staff determines that there is a need to report cases of non-compliance to a National Authority. This information may require additional reports or even copies of the non-IATTC forms completed by the observer during the trip.

2.2. After the trip.

The observer provider staff must ensure that the observer completed all necessary forms described above and make arrangements with the IATTC Observer program staff to make these forms available to the IATTC staff.

3. PROCEDURES FOR THE OBSERVER

3.1. Prior to the beginning of the trip.

Please become familiar with these procedures and keep them handy during your trip for further reference.

During a series of meetings among staffs of the IATTC and the different regional bodies of observer programs in the Western and Central Pacific Ocean (WCPO), it was agreed that observers of the WCPO could act as observers aboard tuna purse seiners permitted to operate in the EPO but that also operate in the WCPO. As the IATTC and the WCPFC are the main tuna Regional Fisheries Management Organizations in the Pacific, it would be necessary for them to manage this Cross-Endorsement program.

Before the trip, you will be provided with the forms described in section 2.1.2 above, that you will complete, as required, **in addition** to the regular forms you complete for your observer provider. Please make sure that you have enough quantities of the forms for the trip. Please consider the following recommendations for each trip:

- a) You should have at least two sets of EPO-1 forms. You should record **all sets made, including those without capture**.
- b) You should have two EPO-2 forms. You will complete one during the trip and keep the other as a backup.
- c) You should have two EPO-3 forms. You will complete one during the trip and keep the other as a backup.
- d) You should have two EPO-4 forms. You will complete one during the trip and keep the other as a backup. Please note that this form has two parts; one for fish considered *AIDCP Dolphin-Safe*, and another for fish considered to be non-*AIDCP Dolphin-Safe*.
- e) Forms EPO-5 and EPO-6 will be used in case there are interactions with marine mammals (*Delphinidae*) or sea turtles during the fishing operations. These are rare occurrences; however, we

would recommend taking at least 10 sets of each of these forms. Please note that EPO-5 is an 8-page report.

- f) EPO-7 form. As shark interaction are common during sets on floating objects and unassociated schools, it is recommended that you take at least 20 of these forms, to be used for documentation of non-compliance with IATTC Resolutions, including a ban on finning of any species of sharks, and a ban on retention of oceanic whitetip sharks (*Carcharhinus longimanus*) and Silky Sharks (*C. falciformis*). If finning or mistreatment of sharks do not occur. You do not need to complete this form.
- g) EPO-8: Ray Record. Interactions with Mobula (Manta spp.) rays are rare, but you should take at least three of these forms. There are two records per page.

If your trip starts west of the meridian 150° W (for example in a port like Pago-Pago), you will start completing your reports **until** you cross eastward over this line and enter the EPO. You should remind the fishing captain of his obligation to send a short message to the observer provider, the IATTC staff and the national authority, indicating the ETA of the vessel to EPO waters. If your trip starts east of the 150° W meridian, you should start reporting on your EPO-1 form the first Monday following your departure date as noted in section 4.1.

Remember that, once the vessel operates in the EPO, you need to include all sets in your trip on form EPO-1, including those made outside of the EPO prior to entrance or after leaving the EPO.

3.2. After the trip.

Although it is the responsibility of the operator to inform the IATTC whether the vessel operated in the EPO, whenever you are aware of the imminent arrival to port, if possible, please inform the IATTC staff (obscontact@iattc.org) of the arrival and whether there was operations in the EPO. If the vessel arrives to Pago-Pago, American Samoa, we have made arrangements with the local authorities of the NMFS of the US, to collect your original IATTC forms.

If the vessel arrives to other port than Pago-Pago, please send a message or ask the operator to inform the IATTC staff so we can coordinate receiving your data.

4. INSTRUCTIONS FOR COMPLETING THE FORMS

4.1. EPO-1: Set Summary (send report to idm@iattc.org).

Form EPO-1 summarizes information on retained catch of the main four species of tunas (yellowfin – YFT, skipjack – SKJ, bigeye – BET-, and Pacific bluefin tuna – PBF) **caught and retained** in sets in the EPO, as well as any dolphin mortality which occurs in EPO sets, during the trip.

This form should be completed from the very beginning of the trip, even if you are not completely sure that the vessel will operate in the IATTC waters, since it will help you completing other forms. If no fishing in the EPO occurs, the trip is not considered to be cross-endorsed and you should submit the form to your observer provider for proper disposal.

According to IATTC resolutions [A-03-02](#) and [C-03-04](#), **while in the IATTC area**, the **vessel personnel** has the requirement to send a weekly report **every Monday** to the IATTC headquarters by e-mail or fax, to the addresses indicated in the title (also in Annex 2), and the observer is required to update the information on the form as soon as every set is finished, and provide the information to the master or the person that he designates, on weekly basis, for its transmittal. Please complete this form systematically and have it ready for the vessel personnel to send it weekly on Monday.

This record may have several pages; once a page has been completed and reported, there is no need to include it in future reports. Complete this form in blue ink to assure legibility.

4.1.1. Form description and instructions.

Form heading

Trip No: The IATTC number assigned to your trip.

ROP: The trip number assigned by your regional observer program.

Dolphin mortality?: Used for accidental mortality of dolphins **but only if they occur in the IATTC area**. Mark the appropriate box.

Vessel: The name of the vessel.

Dates: The departure and arrival year in the format Year (YY)/ Month (MM) and Day (DD), for both the departure of the port, and the arrival at the end of the trip.

Ports: The names of the ports, not the name of the country, for both, departure and arrival.

Accidental sets: Identify the number of sets in which there was **accidental capture of dolphins** in the **IATTC area**. Remember that for any accidental capture of dolphins you must complete form EPO-5.

Captain: Write the name of the person in charge of the fishing operations (fishing captain), not the navigator.

Observer: Write your complete name.

Mort: If there were any dolphins accidentally captured during sets in the IATTC area that subsequently died, write the number in this field.

Set, Location, Tuna caught, Tuna loaded: On the provided spaces, **enlist all the sets during the trip, including those with no catch (skunk)**. Include the number, the set type (see table below), the date, the location, the tonnage caught, and the tonnage loaded (different if there are discards) and the number and location of the well the fish was stored. For each line, write the total of tuna loaded for each well.

Types of set:

Code	Description
MAMSET	Prior to the set, marine mammals were seen in the vicinity of the encirclement area of the net, and they were captured (present at the times of rings up). Includes dolphins and whales.
LOGSET	Any set made on a floating object either natural or artificial such as a FAD. Include sets made in the vicinity of moored floating object.
TUNASET	Any set made on a school of tuna that is not associated to floating objects or marine mammals

NOTE: If the catch of a set is placed in two different wells, you will need to use two lines for the same set, but do not *split* a set between two pages. If recording a set requires more lines than those available in the form, continue with the next page. Enter the tonnage by species for each well in the set. **Leave the shaded spaces empty;** they will be used by port samplers, if available. Use as many pages as necessary and always use the first page, the page with the information of the names, to start your report.

4.2. EPO-2: Compliance Record.

Form EPO-2 is also called Compliance Record (CR), and it is designed to record information regarding compliance with IATTC resolutions. The information collected is provided to the national authorities of the vessel. It must be filled out in blue ink, not pencil.

There are two forms combined in this record. One form, the trip information, provides information on the trip, the observer, the captain and the master, and the second form includes information regarding compliance with IATTC resolutions.

IATTC resolutions are operative only in the IATTC Convention Area, *i.e.*, east of the 150°W meridian (see the map in Annex 1 of this manual), therefore, **please do not include any activity that occurs outside this area.**

Resolutions often expire or are amended, and new resolutions adopted, so it is possible that this form and/or the instructions for completing it will also change; it is your responsibility to verify that the form and instructions that you are given are up-to-date, and to ensure that copies of all relevant IATTC and AIDCP resolutions are included in the documentation that you take to sea, so that they may be used as a reference by the fishing captain if necessary.

Some sections of the form can be completed during the trip when the events occur, while others can be completed after the trip terminates. Review the instructions carefully to determine how and when each section should be completed.

In all cases, write down any detail of interest in the Comments section. Additional spaces are provided on the back of the form.

Note: It is important that you understand that, while your observer provider program is expected to provide the fishing captain with copies of the various IATTC and AIDCP resolutions, if necessary, you should abstain from answering questions, expressing opinions, or making interpretations about the application of the resolutions, since this is the responsibility of the competent national authority.

4.2.1. Trip Information

Names

Please complete the names of the vessel, the fishing captain (master), and your own complete name, on the spaces provided. If there is a change of fishing captains, please record the name of the second captain.

Dates

Please include the dates of departure and arrival of the entire trip and not only the EPO portion.

Fishing captain's and observer's declaration

These sections should be completed at the end of the trip. In the IATTC is obligatory for the observer to make the data available to the captain who can make comments if there is a disagreement with the report. In this case, please follow the instructions from your regional observer program. If you feel uncomfortable showing the data to the captain, you can choose not to follow this instruction.

If you are comfortable showing the data to the captain, please ask him to sign the declaration. The captain is under no obligation to sign, and his signature does not mean that he admits to any of the possible cases reported. Rather, this is an opportunity that the IATTC members give to the operators to include relevant information to the authorities in case an investigation is launched.

You must always complete and sign the observer's declaration.

Data origin

Include the name or acronym of your ROP and the assigned number or code of your trip.

Comments from the fishing captain

If the fishing captain or master, or a person that he designates for that would like to make comments on your report, it should be done in this space. Their comments will be provided without censorship to the flag authority.

4.2.2. Information regarding compliance with IATTC resolutions**4.2.2.1. Sea Turtles****Section A**

This section relates to Resolutions [C-04-05](#) (Consolidated resolution on bycatch, paragraphs 4.a and 4.e) and [C-07-03](#) (Resolution to mitigate the impact of tuna fisheries on sea turtles, paragraphs 5, 6.a, and 6.c). The information should be recorded during each set at the time that the event occurs. For each instance of possible **non-compliance**, there should be a corresponding Sea Turtle Record (STR, EPO-6) on which you record the details of the possible infraction. Record the following information on the Compliance Record:

Species code: Enter the code for the appropriate sea turtle species in the marked box on the corresponding STR, EPO-6. See code table in Annex 3.

STR No.: Enter the record number of the corresponding ST, EPO-6.

No. Turt. (Number of turtles): Enter the number of turtles involved in this occurrence. This is not the same as the record number that you entered in the previous box. Normally this number will be the same as the number of turtles, under OTHER DATA on the STR, but in extraordinary circumstances, which you must explain, the number may be different.

NC (Non-compliance) code: Enter the numeric code listed on the form that best describes the reason why you consider that there was a failure to comply with the above-mentioned resolutions. Use only one of the following criteria to identify which codes to use:

- 1. Sea turtle entangled in the floating object and not released:** Sea turtles alive, previously entangled or trapped in a floating object were not released, either during a set or when the vessel stops to inspect the object, even if no set is made. Describe the details, as extensively as possible, under Comments.

2. **Sea turtle observed in the encirclement area and not released:** One or more live turtles are seen within the area of encirclement at any time during a set, without vessel crew in the area to prevent the turtle(s) from becoming entangled in the vessel's fishing net. Include in your notes the time during the encirclement when you saw the turtle(s).
3. **Sea turtle entangled and not released by stopping net roll:** A live turtle, in contact with the net mesh, is lifted out of the water and net roll is not stopped in order to release it. Note any circumstance that might have affected the decision by the crew to not stop net roll in order to free the turtle. Turtles that are passed through the power block alive should be included under this code.
4. **Sea turtle not promptly released from deck:** An active live sea turtle is not returned to the water promptly after coming on deck. A turtle that appears to be dead or stressed and that is kept on deck for observation should not be recorded on the Compliance Record as a possible infraction.

Set No., Date, Latitude, Longitude: This information must be identical to that on the corresponding STR.

The form provides space to list non-compliance of eight different STRs but, if necessary, you can use more than one form per trip. Include additional notes under Comments.

4.2.2.2. Sharks.

Section B.1

This section should be completed once the trip is finished and relates to Resolutions [C-05-03](#) (conservation of sharks captured in association with fisheries in the EPO), Resolution [C-16-05](#) (management of sharks) and Resolution [C-21-06](#) (conservation of silky sharks). You will need to record in your notes any occurrence of a captured shark whose fins were cut off and, subsequently, record the summary data on the Compliance Record.

Sharks of all species caught in sets: This field is intended to identify the number of sharks whose fins were cut off during sets made to catch tunas, as well as sharks that arrived alive to the deck and were not properly released as required in the resolution.

On the upper box indicate the number of sharks whose fins were cut off and body discarded, in the second box the number of those sharks whose fins were cut off and body retained. Do not include sharks retained whole (without cutting fins) or discarded whole, in these fields.

On the third box include the number of sharks that were alive and that the crew used grapples, hooks or similar instruments to return them to the water. On the bottom box, include the number of sharks that were alive and were lifted by the tail, from the gill slits, spiracle or by using wires or inserted wires or ropes through their body.

Sharks of all species caught outside sets: This field is intended to identify the number of sharks of all species that are captured outside fishing sets, for example, when fishing at night with hooks and lines while the vessel is drifting. In the upper right box indicate the number of occasions on which these attempts were made. For example, if one night 10 lines with five hooks are set, while on the following night only one line with one hook is set, this is recorded as two occasions. In the following box, record the number of sharks whose fins were cut off and body discarded. In the last space, record the number of sharks whose fins were cut off and body retained. Do not include in these field sharks retained whole (without cutting fins) or discarded whole. Include additional notes under Comments.

Oceanic whitetip sharks (*Carcharhinus longimanus*) retained: This section relates to Resolution [C-11-10](#) (Resolution on the conservation of oceanic whitetip sharks). Before filling it out, you should determine, as best as possible, whether captured sharks of this species came aboard dead or alive (an animal that moves by itself should be considered alive). If you cannot determine whether the animal is alive, record its condition as undetermined.

In the upper box of each sub section, record the number of individuals of this species captured and brought on deck, for each of the conditions you determined (alive, dead or undetermined). In the bottom box of each subsection, indicate the number of individuals that were retained, by condition.

Silky sharks (*Carcharhinus falciformis*) retained: This section relates to Resolution [C-21-06](#) (Resolution on the conservation of silky sharks). Before filling it out, you should determine, as best as possible, about whether captured sharks of this species came aboard dead or alive (an animal that moves by itself should be considered alive). If you cannot determine whether the animal is alive, record its condition as undetermined.

In the upper box of each sub section, record the number of individuals of this species captured and brought on deck, for each of the conditions you determined (alive, dead or undetermined). In the bottom box of each subsection, indicate the number of individuals that were retained, by condition.

4.2.2.3. Whale Shark.

Section B.2

This section refers to resolution [C-19-06](#) on whale sharks and [C18-05](#) on FADs, which prohibits making intentional sets on whale sharks and requires that, when whale sharks are accidentally captured, they are not be released by using towing ropes or cables. In the spaces provided, include details and complete an EPO-7 form, shark record.

As the cases of sets on whale sharks are very uncommon, there is only one space on the form. Nonetheless, if you need to record more possible infractions, please use extra pages or make comments at the end of this form.

4.2.2.4. Salt bags and plastic debris.

Section C

This section relates to Resolution [C-04-05](#) on bycatch, specifically paragraph 4.d.ii; it should be completed once the trip terminates. Check the box only if you are sure that salt bags and/or large plastic bags (as large as, or larger than, salt bags) were discarded at sea, *i.e.*, you saw them being discarded.

4.2.2.5. Fishing operations in the offshore closure area (Corralito).

Section D

This section relates to Resolution [C-21-04](#) (Resolution measures for tunas in the EPO) and is also subject to the definition of ‘fishing’ in the IATTC Antigua Convention, which defines the following operations as fishing:

- a) The actual or attempted searching for, catching, or harvesting of the fish stocks covered by this Convention.
- b) Engaging in any activity which can reasonably be expected to result in the locating, catching, or harvesting of these stocks.
- c) Placing, searching for or recovering any fish-aggregating device or associated equipment, including radio beacons.
- d) Any operation at sea in support of, or in preparation for, any activity previously described.

- e) The use of any other vehicle, air or sea-borne, in relation to any activity described above.

This resolution applies only between 00:01 hours on 29 September and 23:59 hours on 29 October in the area bounded by 96° and 110°W from 4°N to 3°S. The section includes two subsections; the first requires that you indicate the number of sets that were made in that area, between the dates indicated. You may include details under Comments, but if you so decide, the information contained in other forms (DAR, for example) is sufficient. The second subsection requires that you indicate whether the operations described above took place during activities outside of sets.

4.2.2.6. Scientific Data buoys.

Section E

This section relates to Resolution [C-11-03](#), which prohibits fishing and/or any interaction with or on data buoys anchored to the seabed, such as the TAO buoys, or any other anchored or drifting research buoy. The definition of ‘fishing’ in the previous paragraph applies. In the top box, indicate the number of sets or interactions within one nautical mile (nm) of the buoy. In the following box, answer whether one of these buoys was brought aboard and, finally, in the bottom box indicate the number of these buoys that you judge were damaged (the anchor cable or chain was cut, or some of their equipment was broken), etc. Under Comments indicate the number of each interaction or set that you identified and details about the fishing operations.

4.2.2.7. Tuna Discards.

Section F

This section relates to Resolution [C-21-04](#) paragraph 37, which requires full retention of all yellowfin, skipjack and bigeye tunas caught in the set, except those considered unfit for human consumption. Regardless of the reasons given by the crew for discarding the fish, you must make an objective assessment of the predominant reason for which you consider the fish was discarded.

This report includes only those sets in which there were discards of the three species indicated (YFT, SKJ and BET) for reasons of species/size unsuitable for market (1) and other reasons (6), but not including those resulting from equipment failure (sack rips, malfunction of winches or hydraulics, etc.). Under ‘Set type’, enter the code that you used on the DAR (TUNASET, MAMSET, or LOGSET). Do not include sets in which there were no discards, or in which fish were lost for other reasons (vessel full, condition unsuitable for market, etc.). Indicate the set number and the tonnage of each species discarded. Enter a dash (–) in the space corresponding to any species that was not discarded. Also, for each of the discarded species, enter the code for the discard reason (1 or 6). If you enter the ‘other’ reason code (6), document in detail in the Comments section.

4.2.2.8. Sealed wells.

Section G

Some vessels seal wells to be in compliance with the resolution on capacity. If this is the case, you will be informed about it and the IATTC staff will provide you with special instructions.

4.2.2.9. Mobulid Rays.

Section H

Resolution [C-15-04](#) forbids the retention of Mobulid rays and requires that those caught accidentally, in the EPO, are released as soon as possible without gaffing, lifting them by the slits or spiracles, or by punching holes through their bodies. If you witness any treatment of rays using these methods, please use this form to provide information about its identification and treatment.

4.2.2.10. Continuation of the sections.

This is used for additional space for the other sections if required. If the information that you are entering exceeds the space available on the form, use as many additional pages as necessary. Do not forget to note at the foot of each page the total number of pages, and from the second page on, write the trip number in the corresponding space.

4.3. EPO-3: International Review Panel (IRP) Report.

Since making sets on dolphins is not allowed in CE trips, this form will probably remain blank for the most part. Nonetheless, you must complete at least the first page of this set of forms.

SUMMARY REPORT OF DOLPHIN SAFETY GEAR AND SET DATA.

This form centers around the requirements for vessels fishing on tunas associated with dolphins. Under the conditions of this Cross-Endorsement, your vessel will very likely not be permitted to make such sets. The only time when it would be required for you to document extensive information on this form would be if during your trip there were sets made in which dolphins were encircled and/or captured or if you were impeded, harassed, or attempts were made to bribe you to falsify or not report required information.

4.3.1. Form description and instructions.

TRIP INFORMATION.

NAMES: Include the name of the vessel and its flag, as well as your name and the name of the fishing captain of the vessel (also called master). If a second fishing captain takes command of the vessel during the trip, please include his name too.

DATES: Include the dates of the trip. If there was a change in fishing captains, please include the date the second captain began directing fishing operations. If you must be relieved of your duties but the fishing trip continues with another observer, provide this form to the new observer so that he may continue gathering the data. The new observer must record his or her name and the date of change.

FISHING CAPTAIN'S DECLARATION: At any convenient occasion prior to the end the trip, ask the fishing captain to sign this declaration, which states that he has the right to review and comment on any data included in this report. If he does not wish to sign, just make a note indicating so on the comments section in the back. Include the date. There is no obligation for the captain to sign this form and this is provided to him for informational purposes only.

OBSERVER'S DECLARATION: Since the information in these forms could be used by national authorities to verify compliance with national and international regulations and requirements, the information in this report must be as accurate as possible. By signing this statement, you pledge to include data and events as accurately as possible.

DATA ORIGIN: In the space provided for PROGRAM, include the name of your ROP. In the space provided for Cruise No., include the number for the trip provided by the IATTC staff to your program manager.

SUMMARY REPORT OF DOLPHIN SAFETY GEAR.

This part of the report is used to record compliance with the AIDCP on the requirements of Dolphin Safety Gear for vessels with a DML that are allowed to fish on tunas associated with dolphins. As this CE is not

applicable to DML vessels, **answer each the 10 questions on this page with NA (Not Applicable).**

OBSERVER-VESSEL PERSONNEL INTERACTIONS.

If the vessel personnel tried to impede or interfere with your data gathering activities, answer 'Yes' to the only question on this page and give detailed notes of what happened. Include names and dates. Bribe attempts should also be described here.

Note: Harassment is the act of systematic and/or continued unwanted and annoying actions of one or more crew members, including threats and demands with the purpose of interfering or impeding the observer's ability to collect information. It creates a hostile and/or offensive environment.

If he wishes, the captain may write comments on this page while in your presence, but he is not allowed to take the forms and keep them for any length of time.

SET AND DOLPHIN MORTALITY DATA.

Vessels operating under this CE agreement are not allowed to fish on tunas associated with dolphins and therefore this part of the report should be left blank. If you consider it necessary, you may write a note in the space under 'Captured Stock' indicating that no dolphin sets were made.

If the vessel makes a set with accidental capture of dolphins, please complete form EPO-5 and follow the instructions in section 4.5.

PURSE SEINER SIGHTING INFORMATION.

Record in this section any sighting of tuna purse seine vessels operating in the EPO. Enter the date and the name of the vessel. Include the position and the activity of the vessel (fishing, searching, running, drifting, etc.). If you see the same vessel later in the trip, do not record its name again unless the vessel is sighted while engaged in fishing operations. If the vessel is making a set, try to determine the type of set in which it is engaged (dolphins, floating objects, or unassociated schools).

4.4. EPO-4: Tuna Tracking Form (TTF).

Complete this form only if you catch tuna in the EPO.

To complete this form, it is necessary that you are familiar with the following concepts:

- a) *AIDCP Dolphin Safe* Tuna (DS tuna): Tuna caught in the EPO, in **any type of set** that did not cause injuries or mortality to dolphins.
- b) *Non-AIDCP Dolphin Safe* Tuna (Non-DS tuna): Tuna caught in the EPO, in **any type of set** that caused injuries or mortality to dolphins.
- c) Vessel personnel should separate DS tuna and Non-DS tuna in the wells to preserve its condition; the mix in a well of these two types of tuna makes the entire contents of that well, and any subsequent tuna added to the well, Non-DS.

4.4.1. Form description and instructions.

This form is divided into two identical parts: Form A and Form B. Form A is used to record fish that is stored

in wells that are used to store DS tuna, while Form B is used to record fish that is stored in wells that contain Non-DS tuna. Each of these forms are divided into two sections: the set-by-set tuna load information, and the summary information of the well. The following instructions apply to both forms A and B:

Set-by-set information

In the spaces provided, include the date (in the format YYMMDD) and time of each set from which tuna was loaded into each well, for the three species of tuna included in this report, YFT, SKJ and BET. If the catch of a single set is loaded into multiple wells, you may use the ditto mark (") to indicate the same set. Please note that, for these cases, it is very important that each line represents the metric ton load by species for each well.

Once you have made your estimates of the load by wells, enter your initials in the space marked with OBS. Corroborate your estimates with those of the Chief Engineer and ask him to enter his initials in the space marked with "C.E.". If your estimates by weight and species are very different (more than 15%), please mark the column "Com?" and make comments in the space provided in the summary.

Summary information

In each of the forms (A and B), enter the tonnage for each of the wells in the vessel, by species of tuna loaded. The summary provides space for a vessel with 13 paired wells. If the vessel is not equipped with that number of wells, cross out the complete line for non-existing wells. If the vessel has more than 13 pairs of wells, use additional pages to include the relevant information and make notes under "Comments".

Names and dates

At the end of the trip, when you know that there will not be more fish loaded, complete and sign the information at the bottom of the page. The person responsible for signing official vessel documents (not necessarily the fishing captain) should do the same. Remember that no copies are to be made of these documents. Bring this form with the rest of your data back to the office of your ROP.

4.5. EPO-5: Marine Mammal Sighting and Set Record.

This is an 8-page report that should be completed whenever there is an interaction between dolphins and the vessel's gear **but only in sets in the EPO**. Your vessel should not intentionally set on dolphins. An intentional set on dolphins is defined as any type of set where dolphins are seen in the encirclement area of the net prior to the start of the set (skiff is let go). Nonetheless, occasionally, there are sets where dolphins are captured even though the target of the set was not a herd of dolphins. These are called accidental capture sets.

If you are not sure of the type of set when there are dolphins involved, you should make detailed notes of the situation describing:

- d) The local time when you determined that dolphins were present.
- e) The local time when the skiff was released (let go).
- f) The presence or absence of dolphins in the net at the time of rings up.
- g) The way dolphins were rescued, as well as the number and methods used by the rescuers.
- h) Any dolphin mortality by species.
- i) Sketches of the set in which you graphically describe the above events.

As this is a form that will not be needed until there is a set in which dolphins are involved, complete only the sections with notes and illustrations and at your return to the ROP for debriefing, explain the situation to the

person in charge of your debriefing. He or she should contact the IATTC when more information is needed.

If the fishing captain would like to make notes regarding this form, please ask him to include his comments in the section provided for captain's comments on the form. Remember that he should write his comments in your presence. He is not allowed to keep the data forms for any length of time.

4.6. EPO-6: Sea Turtle Record.

This form should be used exclusively used to document your observations in section A of form EPO – 2 Compliance Report, for cases you consider to be non-compliant with the rescue requirements highlighted in the heading of this section. The data recorded on this form is very simple and the titles of each section should be self-explanatory. Nevertheless, the following is a list of common causes of confusion when completing this form. Please review this list each time you need to complete a form.

You can aggregate as many turtles on this form as you want if they are the same species and are related to the same set. Otherwise, complete one form per species in the set.

Cruise Number: The IATTC number assigned to your trip.

Record Number: Assign a number to each form you complete during this trip, starting with 001.

Set Number, Date, Time, Latitude and Longitude: of the corresponding set. Please note that only sets in the EPO should be included.

Number of turtles: If you are aggregating the description of more than one turtle in this form, please indicate the number of turtles (same species) that you are registering on this form.

If there is more than one turtle answer:

Various individual sightings: You will not be completing this section as it is not required that you collect data for turtle sightings.

One group with multiple turtles: Check this box if you are recording more than one turtle involved in a set. Otherwise, leave this box blank.

Found trapped/entangled in a floating object?: Check this box if a turtle is entangled or trapped in the floating object, but do not confuse this with entanglement in the vessel's fishing net.

Condition upon leaving the turtle, Association, Identification, Dimensions and Tags: Complete the information as appropriate.

Additional comments: If you have any doubts or questions regarding any of the data items of this form, you should make detailed notes or drawings that may help the data debriefers to understand the situation and edit your data if needed. Please include all relevant information regarding the sea turtle or turtles that you are recording on this form.

4.7. EPO-7: Shark Record.

This form should be used exclusively used to document your observations in section B.1 or B.2 of form EPO – 2 Compliance Report, for cases you consider to be non-compliant with the rescue requirements highlighted in the heading of those sections.

4.7.1. Form description and instructions.

This form should be completed only under the following two circumstances:

- a) The fins of any species of sharks are removed from the body and the carcass is discarded.
- b) Oceanic white tip sharks (*Carcharhinus longimanus*), silky sharks (*C. falciformis*) are brought to the vessel's deck, or whenever whale sharks (*Rhincodon typus*) are involved in fishing activities.

Trip number: The IATTC number assigned to your trip.

Record Number: Assign a sequential number to each form you complete during this trip, starting with 001.

Set number: of the corresponding set. Please note that shark information should only be collected for sets in the EPO.

Species: Identify the shark species and enter the corresponding code listed in Annex 4.

Total number of sharks: The design of this form allows you to group sharks of the same species on one form for each set in which an interaction with sharks (as indicated above) occurs. In this box record the number of sharks of this particular species captured in the set.

You should determine the size of the sharks either by taking a measurement of the total length of each individual shark, or by estimating into which of the three general size categories the shark falls. In addition to this, for each category of size, indicate the fate or disposition of the shark, using the following codes:

1. **Retained:** The shark was retained in wells or treated as catch to be sold as food.
2. **Discarded:** The shark was discarded to the ocean. Use this code if all or most of the shark body was discarded. If the shark is finned, use the 'DISCARDED' code and document the finning with great detail under 'COMMENTS'.
3. **Released alive:** The shark arrived at the deck alive and was immediately released to the water without apparent lethal injuries. If you believe the shark has injuries that would cause imminent death after being released, use the code for 'DISCARDED'.
4. **Other:** Any other situation not described above. Provide details under 'COMMENTS'.
5. **Unknown:** Use this code only if you could not determine the fate of the sharks because it was impossible to observe. This normally occurs when sharks are released from the stern.

This form is designed for you to easily select the morphological characteristics that you observe for each species of shark present in the set. This includes the shape of the caudal fin, the shape of the head, the shape of the dorsal fin, the distance between the first dorsal the pectoral fins, the internal border length of the second dorsal fin, the body coloration, and the presence or absence of an interdorsal crest.

In each of the different groups of characteristics, check the following options, based on the indicated criteria:

- The illustration of the observed characteristic that most closely matches.
- **Neither/None of these:** Indicates that, according to what you see, the observed characteristic is not similar to any of those presented in the illustrations. If this is the case, please document under 'COMMENTS' at the bottom of the page. Use additional pages if needed.
- **Could not determine:** Indicates that you could not determine the characteristic for any reason, such as an obstructed view or because there was not enough time to make your observations.
- **Unsure:** Indicates that even though you had time to observe with certain detail the described characteristic, the illustration noted does not seem to reflect what you observe on the shark. If this

is the case, try to describe the difference under 'COMMENTS', at the bottom of the page. Use additional pages if needed.

4.8. EPO-8: Ray Record.

4.8.1. Form description and instructions.

This form should be completed only if manta rays (no other type of rays) are accidentally captured and retained during sets in the EPO or you considered that the rescue methods are not adequate.

Trip number: The IATTC number assigned to your trip.

Record Number: Assign a sequential number to each form you complete during this trip, starting with 001.

Set number: of the corresponding set. Please note that manta ray information should only be collected for sets in the EPO.

Species: Identify the manta ray species and enter the corresponding code listed in Annex 4.

Total number of rays: The design of this form allows you to group manta rays of the same species on one form for each set in which an interaction with manta rays (as indicated above) occurs. In this box record the number of manta rays of this particular species captured in the set.

You should determine the size of the manta rays either by taking a measurement of the total **width** of each individual, or by estimating into which of the three general size categories the manta ray falls. In addition to this, for each category of size, indicate the fate or disposition of the manta rays, using the following codes:

1. **Retained:** The manta ray was retained in wells or treated as catch to be sold as food.
2. **Discarded:** The manta ray was discarded to the ocean. If you are grouping a number of manta rays, use this code if all or most of the animals were discarded.
3. **Released alive:** The manta ray arrived at the deck alive and was immediately released to the water without apparent lethal injuries. If you believe the manta ray has injuries that would cause imminent death after being released, like if they hook them by the gills, use the code for 'DISCARDED'.
4. **Other:** Any other situation not described above. Provide details under 'COMMENTS'.
5. **Unknown:** Use this code only if you could not determine the fate of the manta ray because it was impossible to observe. This normally occurs when they are released from the stern.

This form is designed for you to easily select the morphological characteristics that you observe for each species of manta rays present in the set. This includes the shape of the head, the position of the spiracle and the mouth, and the presence of a spine in the tail.

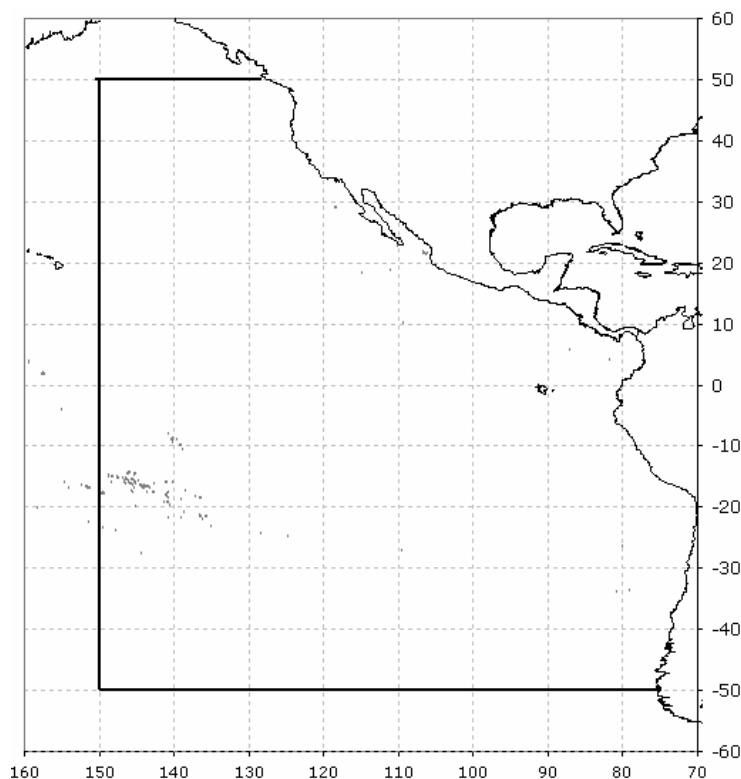
In each of the different groups of characteristics, check the following options, based on the indicated criteria:

- The illustration of the observed characteristic that most closely matches your observations.
- **Neither/None of these:** Indicates that, according to what you see, the observed characteristic is not similar to any of those presented in the illustrations. If this is the case, please document under 'COMMENTS' at the bottom of the page. Use additional pages if needed.
- **Could not determine:** Indicates that you could not determine the characteristic for any reason, such as an obstructed view or because there was not enough time to make your observations.
- **Unsure:** Indicates that even though you had time to observe with certain detail the described

characteristic, the illustration noted does not seem to reflect what you observe on the animal. If this is the case, try to describe the difference under 'COMMENTS', at the bottom of the page. Use additional pages if needed.

Annex 1. Convention Area:


The area of application of the Convention ("the Convention Area") comprises the area of the Pacific Ocean bounded by the coastline of North, Central, and South America and by the following lines:



- a) the 50°N parallel from the coast of North America to its intersection with the 150°W meridian;
- b) the 150°W meridian to its intersection with the 50°S parallel; and
- c) the 50°S parallel to its intersection with the coast of South America.

Annex 2. IATTC Staff Contact information (phone numbers and e-mail addresses):

Headquarters: 8901 La Jolla Shores Dr., La Jolla, CA 92037. Country code: +1; City code: (858) or as noted.

	Office number	Personal number	e-mail
IATTC Obs. Prog. Staff			ObsContact@iattc.org
IATTC weekly report			idm@iattc.org
Enrique Ureña	665-4926	(619)274-7262 (cell) 	eurena@iattc.org
Andrés Romero	665-4943		aromero@iattc.org

Annex 3. Sea turtle codes:

	Species	Common name	Code	Unidentified
Cheloniidae	<i>Lepidochelys olivacea</i> ———	Olive ridley	LKV	} UNTU
	<i>Caretta caretta</i> ———	Loggerhead	TTL	
	<i>Chelonia mydas</i> ———	Green	TUG	
	<i>Eretmochelys imbricata</i> ———	Hawksbill	TTH	
	<i>Dermochelys coriacea</i> ———	Laetherback	DKK	
Other species not in this table ———				OTTU

Annex 4. Shark and manta ray codes:

Sharks					
Famiy	Species	Common Name	Code	Unidentified	Unidentified
Carcharhinidae	<i>Carcharhinus falciformis</i>	Silky	FAL	RSK	UNSH
	<i>Carcharhinus limbatus</i>	Blacktip	CCL		
	<i>Carcharhinus longimanus</i>	Oceanic whitetip	OCS		
	<i>Carcharhinus leucas</i>	Bull	CCE		
	<i>Prionace glauca</i>	Blue	BSH		
Sphyrnidae	<i>Sphyrna lewini</i>	Scalloped hammerhead	SPL	SPN	
	<i>Sphyrna zygaena</i>	Smooth hammerhead	SPZ		
	<i>Sphyrna mokarran</i>	Great hammerhead	SPK		
Lamnidae	<i>Isurus oxyrinchus</i>	Mako	SMA	THR	
	<i>Isurus spp.</i>	Mako	MAK		
Alopiidae	<i>Alopias pelagicus</i>	Pelagic thresher shark	PTH		
	<i>Alopias superciliosus</i>	Bigeye thresher shark	BTH		
	<i>Alopias vulpinus</i>	Thresher shark	ALV		
Rhincodontidae	<i>Rhincodon typus</i>	Whale shark	RHN		
Other specie, not included in this table					OTSH
Unidentified Shark					UNSH
Rays					
Famiy	Species	Common Name	Code	Unidentified	
Mobulidae	<i>Mobula thurstoni</i>	Smooth-tail mobula	RMO	RAY	
	<i>Mobula munkiana</i>	Pygmy devil ray	RMU		
	<i>Mobula tarapacana</i>	Devil ray	RMT		
	<i>Mobula birostris</i>	Giant devil ray	RMB		

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[illegible]

IATTC Forms

INTERAMERICAN TROPICAL TUNA COMMISSION EPO – 1 SET SUMMARY

Trip No.: _____ ROP: _____ Dolphin mortality? Yes ☐ No ☐

<u>Vessel:</u>	<u>Dates (YY/MM/DD)</u> Dep: _____ Arr: _____	<u>Ports</u> Dep: _____ Arriv: _____	<u>Accidental sets</u> No.: _____
<u>CAPTAIN</u>		<u>OBSERVER:</u>	Mort: _____

Set			Location			Tuna caught (t)					Tuna loaded (t)							
No.	Type	Date	Lat	Lon	Area	YFT	SKJ	BET	PBF	OTR	YFT	SKJ	BET	PBF	OTR	Well.	TOTAL ²	

INTERAMERICAN TROPICAL TUNA COMMISSION EPO – 1 SET SUMMARY

Trip No.: _____

ROP: _____

Dolphin mortality?

Yes



No

11

[illegible]

INTERAMERICAN TROPICAL TUNA COMMISSION EPO – 1 SET SUMMARY

Trip No.: _____ **ROP:** _____

Dolphin mortality? ☐ Yes

No

[illegible]

INTERAMERICAN TROPICAL TUNA COMMISSION EPO – 1 SET SUMMARY

Trip No.: _____ **ROP:** _____

Dolphin mortality? ☐ Yes

No

[illegible]

EPO-2 SUMMARY OF COMPLIANCE WITH THE IATTC RESOLUTIONS**TRIP INFORMATION**

This **preliminary** report is provided to the national authorities prior to the preparation of the IATTC staff's final report to the Working Group for the Review of the Application of Measures Adopted by the Commission. The final report may contain amendments to what is indicated here, as well as more possible infractions identified in other registers. **This report can only include cases inside the Agreement area of the Inter-American Tropical Tuna Commission.**

NAME

Vessel: _____ Flag: _____

Fishing Captain (1): _____

Fishing Captain (2): _____

Observer (1): _____

Observer (2): _____

DATES

Departure:

Year	MM	DD

Arrival:

Year	MM	DD

Fishing captain change:

Year	MM	DD

Observer change:

Year	MM	DD

FISHING CAPTAIN'S DECLARATION

I acknowledge that I have the right to review all entries made on this form and that I can add my own comments in the spaces provided.

I understand that, in addition to this summary, other possible cases of non-compliance can be identified in the rest of the observer's forms, to which I also have access, and in which I can make comments. I am aware that this is a preliminary summary and that the final report will be prepared by the IATTC staff based on all the available final information.

Cap. 1: Name (Please Print)_____
Cap. 1: Signature_____
Date_____
Cap. 2: Name (Please Print)_____
Cap. 2: Signature_____
Date**OBSERVER'S DECLARATION**

I hereby declare that the information on these forms reflects truthfully my most accurate observations.

Obs. 1: Name_____
Obs. 1: Signature_____
Date_____
Obs. 2: Name_____
Obs. 2: Signature_____
Date**DATA PROCEDURE**

Program: _____

Trip No.: _____

IRP No: _____

COMMENTS FROM THE FISHING CAPTAIN OR THE PERSON DESIGNATED BY THE CAPTAIN

If after reviewing this report the fishing captain or any crew member designated by him, has comments, allow him to use the space below. Let the captain know that that he may add more information not contained here, and forward it to the flag authority, to the nearest IATTC office, or to the IATTC staff in La Jolla, California, USA.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There is no text or other markings on the paper.

INFORMATION REGARDING COMPLIANCE WITH IATTC RESOLUTIONS

A. SEA TURTLES

Resolutions C-04-05, C-07-03

Non-compliance codes refer to the operational requirements detailed in the cited resolutions, when sea turtles are seen or captured in purse-seine sets. The condition of the turtle, after the interaction, is not a determining factor in the identification of the non-compliance.

Non-compliance (NC) codes:

1. Alive sea turtle entangled in the floating object and not released. (C-07-03 6c)
2. Alive sea turtle observed in the encirclement area and not released attempted. (C-04-05 4e. I)
3. Sea turtle entangled in the net and not released by stopping net roll. (C-04-05 4e. ii)
4. Sea turtle not properly released from deck. (C-04-05 4e.iii)

Species Code	STR No.	No. Turt.	NC Code	Set No	YY	Date MM	DD	Latitude	N/S	Longitude	W

Comments:

Species Code	STR No.	No. Turt.	NC Code	Set No	YY	Date MM	DD	Latitude	N/S	Longitude	W

Comments:

Species Code	STR No.	No. Turt.	NC Code	Set No	YY	Date MM	DD	Latitude	N/S	Longitude	W

Comments:

Species Code	STR No.	No. Turt.	NC Code	Set No	YY	Date MM	DD	Latitude	N/S	Longitude	W

Comments:

To include more cases of possible non-compliance or if you require more space for additional documentation, use additional sheets. Under Comments, indicate if this was necessary.

B.1. SHARKS**Resolutions C-05-03, C-11-10, C-16-05 and C-21-06**

The boxes indicate the instances where sharks of all species were captured and mutilated (C-05-03), and whitetip shark retained, and silky sharks retained. (C-11-10 y C-21-06)

Sharks of all species caught in sets:	Number of sharks finned with the carcass discarded:					
	Number of sharks finned with carcass retained:					
	Number released using grapples, hooks or similar instruments:					
	Number released by lifting it from the tail, from the gill slits, spiracle or by using wires or inserted wires or ropes through their body.					
Sharks of all species caught outside sets: (e.g. fishing at night with lines))	Number of occurrences during the trip:					
	Number of sharks finned with the carcass discarded:					
	Number of sharks finned with carcass retained:					
Oceanic whitetip sharks (<i>Carcharhinus longimanus</i>)	Number of <u>alive</u> sharks on deck:					
	Number of <u>alive</u> sharks retained on deck:					
	Number of <u>dead</u> sharks on deck:					
	Number of <u>dead</u> sharks retained on deck:					
Silky sharks (<i>Carcharhinus falciformis</i>)	Number of <u>alive</u> sharks on deck:					
	Number of <u>alive</u> sharks retained on deck:					
	Number of <u>dead</u> sharks on deck:					
	Number of <u>dead</u> sharks retained on deck:					
Comments:						

B.2. WHALE SHARK**Resolutions C-19-06 and C-18-05**

Record all sets in which whale sharks were spotted BY YOU before the set and the net was set, as well as sets with incidental capture of these in which they are released using tow ropes.

Non-compliance codes: 1. Whale shark sighted before launching the net. (C-16-01,12)
2. Whale shark towed out using towing ropes. (C-16-05, 3c)

SR No.	Set No.	YY	Date MM	DD	NC. Code	Comments (Note if it was sighted before the set or if towing ropes or lines were used in the release):

To include more cases of possible non-compliance or if you require more space for additional documentation, **use additional sheets. If this is necessary, indicate under Comments.**

C. SALT BAGS AND PLASTIC DEBRIS**Resolution C-04-05**

Check the box only if salt bags were discarded during the trip	<input type="checkbox"/>	Comments: _____ _____ _____
Check the box only if large plastic bags were discarded during the trip	<input type="checkbox"/>	Comments: _____ _____ _____

D. FISHING OPERATIONS IN THE OFFSHORE CLOSURE AREA (Corralito)**Resolution C-21-04**

Closure in force from October 9 to November 8	No. of sets in this area during the closure:				
	Other fishing operations? Answer Yes or No (See instructions):				
Comments: _____ _____ _____					

E. SCIENTIFIC DATA BUOYS**Resolution C-11-03**

Number of occasions in which the vessel interacted within 1 nm of a scientific data buoy:				
Were data buoys loaded on the vessel? Answer 'Yes' or 'No' and provide details in the comments section below.				
Number of data buoys entangled and/or damaged:				
Comments (Include the FIR floating object number and object count): _____ _____ _____				

F. TUNA DISCARDS**Resolution C-21-04**

List the sets in which YFT, SKJ or BET were not embarked according to paragraph 24 of the resolution. Do not include tuna unfitted for human consumption or discarded in the last set due to lack of space in wells.

Set No.	Set type	Date	Geographic location		Discarded metric tons			Code of discard reason		
			Lat	Lon	YFT	SKJ	BET	YFT	SKJ	BET

Comments:

G. SEALED WELLS**Resolution C-12-08**Check the box **only** if the vessel has sealed wells.

Sealed wells: Port – P
 Starboard – S
 Central – C

Check the box **only** if fish was stored in one or more of the wells indicated above during the trip.☐

Comments:

H. MOBULID RAYS**Resolution C-15-04**List if any ray of the *Mobulidae* family was retained during the trip or if they were captured accidentally and if prohibited methods were used for their release, described in annex 1 of the resolution.

Specie	RR No.	Set No.	Number of retained rays	Were any prohibited methods used to release the ray?
				<input type="checkbox"/>

Comments:

Use this space to complete any of the rest of the sections or to expand your comments.

EPO – 3 SUMMARY REPORT OF DOLPHIN SAFETY GEAR AND SET DATA**INFORMACIÓN DEL CRUCERO – TRIP INFORMATION****NOMBRES – NAMES**

Buque – Vessel: _____ Bandera – Flag: _____

Capitán de Pesca (1) – Fishing Captain (1): _____

Capitán de Pesca (2) – Fishing Captain (2): _____

Observador (1) – Observador(1): _____

Observador (2) – Observador(2): _____

FECHAS – DATES

Zarpe – Departure:

Año - Year		MM	DD

Arribo – Arrival:

Año - Year		MM	DD

Cambio de capitán:
Fishing captain change:

Año - Year		MM	DD

Cambio de observador:
Observer change:

Año - Year		MM	DD

DECLARACIÓN DEL CAPITAN DE PESCA – FISHING CAPTAIN'S DECLARATION:

Tengo conocimiento de que me asiste el derecho a revisar todas las anotaciones hechas en este registro y que puedo incluir mis propios comentarios en los espacios provistos o en cualquier espacio que considere necesario – I acknowledge that I have the right to review all entries made on this form and that I can include my own comments in the spaces provided.

Cap. 1: Nombre (letra de imprenta, por favor)
Name (Please Print)

Cap. 1: Firma - Signature

Fecha – Date

Cap. 2: Nombre (de ser necesario)– Name (If necessary)

Cap. 2: Firma - Signature

Fecha – Date

DECLARACIÓN DEL OBSERVADOR – OBSERVER'S DECLARATION:

Declaro que lo registrado en estos formularios refleja fielmente mis más precisas observaciones– I hereby declare that the information on these forms reflects truthfully my most accurate observations

Obs. 1: Nombre – Name

Obs. 1: Firma - Signature

Fecha – Date

Obs. 2: Nombre – Name

Obs. 2: Firma - Signature

Fecha – Date

ORIGEN DE LOS DATOS – DATA ORIGIN

Programa:
Program:

No. de crucero:
Cruise No.:

IRP Record
Number:

**RESUMEN DEL EQUIPO DE PROTECCIÓN DE DELFINES
SUMMARY REPORT OF DOLPHIN SAFETY GEAR**

PARA LAS SIGUIENTES PREGUNTAS INDIQUE SU MEJOR ESTIMACIÓN DE LAS CARACTERÍSTICAS DEL EQUIPO INDICADO (Anoté NA –No aplicable – para buques sin LMD y sin el equipo).

FOR THE FOLLOWING QUESTIONS, PLEASE PROVIDE YOUR BEST ESTIMATES OF THE CHARACTERISTICS OF THE INDICATED GEAR (Enter NA – Non applicable – for vessels without DML and without the gear).

- 1) ¿Cuál es la profundidad de la red en paños estándar? – What is the depth of the net, in standard strips?
- 2) ¿Cuál es la longitud estimada de paño de protección de delfines (PPD) en brazas? – What is the estimated length of the dolphin safety panel (DSP) in fathoms?
- 3) ¿Cuál es la profundidad del PPD en paños estándar? – What is the depth of the DSP in standard net strips?
- 4) ¿Cuál es la profundidad estimada del PPD en brazas? – What is the estimated depth of the DSP in fathoms?
- 5) ¿Cuál es la luz de malla (estirada) del PPD, en pulgadas? – What is the size of the DSP mesh, in inches when stretched?

PARA LAS SIGUIENTES PREGUNTAS, RESPONDA ‘SÍ’, ‘NO’, O ‘DESC’ (DESCONOCIDO), SEGÚN CORRESPONDA. SI RESPONDE ‘NO’ O ‘DESC’, DETALLE AL REVERSO DE ESTA HOJA (Anoté NA – No aplicable – para buques sin LMD y sin el equipo).

FOR THE FOLLOWING QUESTIONS, PLEASE ANSWER ‘YES’, ‘NO’, OR ‘UNK’ (UNKNOWN) ACCORDINGLY. IF YOUR RESPONSE IS ‘NO’ OR ‘UNK’, INCLUDE COMMENTS ON THE REVERSE OF THIS PAGE. Enter NA – Non applicable – for vessels without DML and without the gear).

- 6) ¿Están ambos extremos del PPD marcados de forma clara y visible? – Are both ends of the DSP clearly and visibly marked?
- 7) ¿Cuenta el buque con una balsa adecuada para la observación y rescate de delfines? – Is the vessel equipped with an operable raft suitable for the observation and rescue of dolphins?
- 8) ¿Cuenta el buque con al menos dos visores de buceo utilizables adecuados para la observación bajo el agua? – Is the vessel equipped with at least two operable facemasks suitable for underwater observation?
- 9) ¿Cuenta el buque con un reflector de alta intensidad de largo alcance utilizable, con una lámpara de sodio de 1000 vatios o una lámpara multivapor de al menos 1500 vatios? – Is the vessel equipped with an operable long-range, high-intensity floodlight with a sodium lamp of at least 1000 watts or a multivapour lamp of at least 1500 watts?
- 10) ¿Cuenta el buque con al menos tres lanchas utilizables, todas ellas dotadas de bridas o postes y cabos de remolque? – Is the vessel equipped with at least three operable speedboats, each equipped with towing bridles or posts, and tow lines?

DATOS DE LANCES Y MORTALIDAD DE DELFINES – SET AND DOLPHIN MORTALITY DATA

LMD asignado al buque – DML allocated to vessel

Mortalidad acumulada del buque antes del crucero:
Cumulative mortality for vessel prior to trip:

RECNO

Panel Internacional de Revisión – International Review Panel

Comentarios – Comments:

RECNO

Panel Internacional de Revisión – International Review Panel
INFORMACIÓN DE AVISTAMIENTOS DE ATUNEROS DE CERCO
PURSE SEINER SIGHTING INFORMATION

[illegible]

[illegible]

A	Número RSA	Para atún capturado en lances sin mortalidad ni heridas graves a delfines
	TTF Number	For tuna caught in sets without mortality or severe injury of dolphins
	Bodegas - Wells:	B: Babor - Port; E: Estribor - Starboard; C: Crujía - Center
		Fechas en formato AA-MM-DD – Dates in YY-MM-DD format

[illegible]

Para atún capturado en lances sin mortalidad ni heridas graves a delfines For tuna caught in sets without mortality or severe injury of dolphins							Número RSA TTF Number
Bodegas - Wells:	B:	Babor - Port;	E:	Estribor - Starboard;	C:	Crujía - Center	A
Fechas en formato AA-MM-DD – Dates in YY-MM-DD format						

[illegible]

	Número RSA	TTF Number
A	:	:

Casilla de tonelaaje cruzada con X: la bodega no contiene la especie correspondiente.

Tonnage box crossed out: the well does not contain the corresponding species.

Renglón de bodega tachado con una línea: bodega no existente o no aplicable.

Well row lined out: non-existent or non-applicable well.

Resumen del tonelaje estimado cargado por bodega – Summary of estimated tonnage loaded by well

Bodega Well	YFT	SKJ	BET	OTR OTH	TOTAL		Bodega Well	YFT	SKJ	BET	OTR OTH	TOTAL
B1							E1					
B2							E2					
B3							E3					
B4							E4					
B5							E5					
B6							E6					
B7							E7					
B8							E8					
B9							E9					
B10							E10					
B11							E11					
B12							E12					
B13							E13					

[illegible]

La información contenida en este formulario es verdadera y correcta:

The information contained on this form is true and correct to the best of my knowledge:

Observador(es) - Observer(s):

Capitán(es) – Captain(s):

1) Nombre – Name 2) Nombre – Name 1) Nombre – Name 2) Nombre – Name

Firma - Signature Firma - Signature Firma - Signature Firma - Signature

Fecha – Date

[illegible]

	Número RSA	TTF Number
B	:	:

Casilla de tonelaje cruzada con X: la bodega no contiene la especie correspondiente.

Tonnage box crossed out: the well does not contain the corresponding species.

Renglón de bodega tachado con una línea: bodega no existente o no aplicable.

Well row lined out: non-existent or non-applicable well.

Resumen del tonelaje estimado cargado por bodega – Summary of estimated tonnage loaded by well

Bodega Well	YFT	SKJ	BET	OTR OTH	TOTAL		Bodega Well	YFT	SKJ	BET	OTR OTH	TOTAL
B1							E1					
B2							E2					
B3							E3					
B4							E4					
B5							E5					
B6							E6					
B7							E7					
B8							E8					
B9							E9					
B10							E10					
B11							E11					
B12							E12					
B13							E13					

[illegible]

La información contenida en este formulario es verdadera y correcta:

The information contained on this form is true and correct to the best of my knowledge:

Observador(es) - Observer(s):

Capitán(es) – Captain(s):

1) Nombre – Name 2) Nombre – Name 1) Nombre – Name 2) Nombre – Name

Firma - Signature

Firma - Signature

Firma - Signature

Firma - Signature

Fecha – Date

Fecha – Date

Fecha – Date

Fecha – Date

EPO – 5 MARINE MAMMAL SIGHTING AND SET RECORD

SIGHT
NUMBER _____

SET
NUMBER _____

PAGE 1

DATE _____ CRUISE NO. _____
(YY MM DD)

HOUR OF MARINE MAMMAL SIGHTING _____

1. INITIAL ESTIMATE OF THE NUMBER AND SPECIES COMPOSITION OF THE ENTIRE SCHOOL

TOTAL NUMBER	% SPOTTED	% EASTERN SPINNER	% WHITE BELLY SPINNER	% UNIDENT. SPINNER	% COMMON DOLPHIN	% OTHER SPECIES (1)	% OTHER SPECIES (2)	SPOTTED STOCK	OTHER SPECIES STOCK (1)	OTHER SPECIES STOCK (2)
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
OBSERVER _____								_____	_____	_____
CREW _____								_____	_____	_____
AERIAL _____								_____	_____	_____
								CODE	CODE	CODE

2. SIGHTING AND IDENTIFICATION NOTES

SIGHTING NOTES: _____

LIST ALL CHARACTERISTICS USED FOR IDENTIFICATION AND MAKE A DRAWING OF EACH SPECIES OBSERVED

SPOTTED:

NEON. _____ %

TWO T. _____ %

SPECK _____ %

MOTTL _____ %

ADULT _____ %

TOTAL	CREW ESTIMATE % COMPOSITION BY SPECIES
1. _____	_____
2. _____	_____
3. _____	_____

DATA REVIEWED

☐

CLOSEST DISTANCE THAT EACH SPECIES WAS OBSERVED _____



CRUISE NO. _____ SET NO. _____

6. ESTIMATE OF THE NUMBER AND SPECIES COMPOSITION OF CAPTURED MARINE MAMMALS

TOTAL NUMBER	% SPOTTED	% EASTERN SPINNER	% WHITE BELLY SPINNER	% UNIDENT. SPINNER	% COMMON DOLPHIN	% OTHER SPECIES (1)	% OTHER SPECIES (2)	SPOTTED STOCK	OTHER SPECIES STOCK (1)	OTHER SPECIES STOCK (2)
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
OBSERVER _____								_____	_____	_____
CREW _____								_____	_____	_____
TOTAL		% COMPOSITION BY SPECIES						CODE	CODE	CODE
1 _____										
2 _____										
3 _____										
CREW ESTIMATE								NEONATES CAPTURED? Yes ____ No ____		

7. LIVE MARINE MAMMALS RESCUED AFTER RINGS UP

(a) BEFORE BACKDOWN [IF NO BACKDOWN PROCEED TO SECTION (d)]				(b) BACKED OUT DURING BACKDOWN		(c) DURING BACKDOWN (DO NOT INCLUDE ANIMALS WHICH WERE BACKED OUT)			NUMBER OF MARINE MAMMALS ALIVE IN THE NET AFTER BACKDOWN	(d) FOLLOWING BACKDOWN TO BEGINNING OF SACKUP OR IF NO BACKDOWN					(e) SACK RESCUE		
S P D B T	R A F T	S W I M M E R	D E C K	NUMBER ACTIVELY RELEASED	NUMBER BACKED OUT	FISH LOST (TONS)	S P D B T	R A F T		S W I M M E R	NUMBER ACTIVELY RELEASED	S P D B T	R A F T	S W I M M E R	D E C K	NUMBER ACTIVELY RELEASED	NUMBER RELEASED
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____

8. DESCRIBE ALL RESCUE EFFORTS AND BACKDOWN PROCEDURE (INCLUDE TIMES):

9. BEST ESTIMATE OF NUMBER AND SPECIES COMPOSITION OF THE ENTIRE SCHOOL

TOTAL NUMBER	% SPOTTED	% EASTERN SPINNER	% WHITE BELLY SPINNER	% UNIDENT. SPINNER	% COMMON DOLPHIN	% OTHER SPECIES (1)	% OTHER SPECIES (2)	SPOTTED STOCK	OTHER SPECIES STOCK (1)	OTHER SPECIES STOCK (2)
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
OBSERVER _____								CODE	CODE	CODE

CRUISE NO. _____ SET NO. _____

TALLY SHEET

SYMBOLS:

✓ = DEAD

⊕ = INJURED



? = UNDETERMINED CONDITION

NOTE: AN "INJURED" DOLPHIN IS ONE THAT APPEARS TO HAVE BROKEN BONES, FLIPPER OR SNOUT, OR SEVERELY TORN FLIPPERS, FINS OR FLUKES. ANIMALS WHICH ARE PROFUSELY BLEEDING SHOULD BE CONSIDERED **INJURED**, BUT DO NOT CONFUSE PROFUSE BLEEDING WITH SUPERFICIAL ABRASIONS CAUSED BY THE NET. ANY DOLPHIN PASSED THROUGH THE POWER BLOCK SHOULD BE MARKED AS **DEAD**.

PROCESSED ✓ ⊕ ?	SPOTTED														SPINNER									COMMON DOLPHIN			OTHER SPECIES			UN-ID.		
	NEONATE			TWO-TONE			SPECKLED			MOTTLED			ADULT			EDAD DESC	EASTERN			WHITEBELLY SPINNER			OTHER OR UNID.			M	F	UNKN SEX	M		F	UNKN SEX
	M	F	UNKN SEX	M	F	UNKN SEX	M	F	UNKN SEX	M	F	UNKN SEX	M	F	UNKN SEX		M	F	UNKN SEX	M	F	UNKN SEX										



11. HOW MANY BOW BUNCHES WERE PULLED DURING THIS SET?..... _____

12. HOW MANY SPEEDBOATS WERE USED TO TOW THE NET?..... _____

13. DURING BACKDOWN DID THE SAFETY PANEL COVER THE PERIMETER OF THE BACKDOWN CHANNEL? (INCLUDE THE LOCATION OF THE DSP IN THE DRAWINGS IN SECTION 19 – REFER TO THE MANUAL TO CORRECTLY ANSWER THIS QUESTION)..... _____

14. WAS A STRONG CURRENT EVIDENT DURING THIS SET?..... _____

(a) HOW DID YOU DETERMINE A STRONG CURRENT?..... _____

15. DID A NET COLLAPSE OCCUR WHILE MARINE MAMMALS WERE IN THE NET?..... _____

(a) WERE MARINE MAMMALS KILLED AS A RESULT OF THE NET COLLAPSE?..... _____

(b) HOW WAS THE NET COLLAPSE CLEARED?..... _____

16. DID A NET CANOPY OCCUR WHILE MARINE MAMMALS WERE IN THE NET?..... _____

(a) WERE MARINE MAMMALS KILLED AS A RESULT OF THE NET CANOPY?..... _____

(b) HOW WAS THE NET CANOPY CLEARED?..... _____

17. IF ALL OR PART OF THE BACKDOWN OCCURRED IN DARKNESS, WERE LIGHTS USED TO ILLUMINATE THE BACKDOWN CHANNEL? (HIF=HIGH INTENSITY FLOODLIGHT, Y=OTHER LIGHT USED, N=NO LIGHTS, N/A=NOT DARK)..... _____

(a) DESCRIBE THE TYPE, LOCATION AND USE OF THE LIGHTS..... _____

18. DID A MALFUNCTION OCCUR DURING THE SET?..... _____


(a) DESCRIBE ALL MALFUNCTIONS IN ORDER OF OCCURRENCE


	TIME MALF OCCURRED	TIME REPAIR COMPLETED	DELAY IN THE SET	(DESCRIBE THE TYPE OF MALFUNCTION, OPINION OF THE CAUSE, AND HOW RESOLVED)	WERE LIVE M. MAMMALS IN THE NET?	MALF. CODE
1						
2						
3						
4						

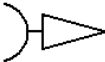


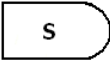
19. ILLUSTRATION OF THE SET AND NOTES (CONTINUE WITH DRAWINGS UNTIL ALL OF THE DOLPHINS HAVE BEEN REMOVED FROM THE NET)

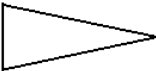
W WIND DIRECTION	X DOLPHINS	SI SINKING CORKLINE	IF OTHER SYMBOLS ARE USED, DRAW AND DEFINE THEM HERE:
D CURRENT DIRECTION	E ENTANGLED OR ENTRAPPED	C CANOPY	
Ø BOW BUNCHLINE	S SWIMMER	Ⓡ RAFT	

 SPEEDBOAT

 SAFETY PANEL

 SPEEDBOAT TOWING THE CORK LINE

 SKIFF

 VESSEL

TIME		TIME		TIME	
NOTES:		NOTES:		NOTES:	

TIME		TIME		TIME	
NOTES:		NOTES:		NOTES:	

19. ILLUSTRATION OF THE SET AND NOTES (CONTINUATION)

TIME		TIME		TIME	

NOTES:	NOTES:	NOTES:

TIME		TIME		TIME	

NOTES:	NOTES:	NOTES:

20. CAPTAIN COMMENTS REGARDING THIS SET

Inter-American Tropical Tuna Commission
EPO – 6 SEA TURTLE RECORD

Cruise Number	Record Number	Set No.	DATE	YY	MM	DD	TIME	LATITUDE	N/S	LONGITUDE

SPECIES:	ACTIVITY:	OTHER DATA:
Olive Ridley [] 1	Alive & immobile [] 1	Number of turtles
Green [] 2	Swimming [] 2	If there is more than one turtle answer:
Leatherback [] 3	Copulating [] 3	- Various individual sightings [] 1
Hawksbill [] 4	Feeding [] 4	- One group with multiple turtles [] 2 Yes
Loggerhead [] 5	Dead [] 5	¿Found trapped/entangled in a floating object? []
Unidentified [] 6	Other / Unknown [] 6	¿Passed alive through the power block? []

CONDICION UPON LEAVING THE TURTLE	ASSOCIATION:
Entangled alive in a FOB [] 0	With marine mammals [] 1 No. MMSSR: _____ With tuna (BREEZER) [] 2 Unassociated [] 3 With other (not turtles) [] 4 Other: _____ With floating object [] 5 No. FIR: _____ Distance of the association: _____ m
Already dead [] 1	
Released unharmed [] 2	
Released with light injury [] 3 Mark	
Released with grave injury [] 4 only	
Accidentally killed [] 5 one	
Escaped/evaded the net [] 6	
Treated as catch (consumed) [] 7	
Not involved in fishing operation [] 8	
Other / Unknown [] 9	

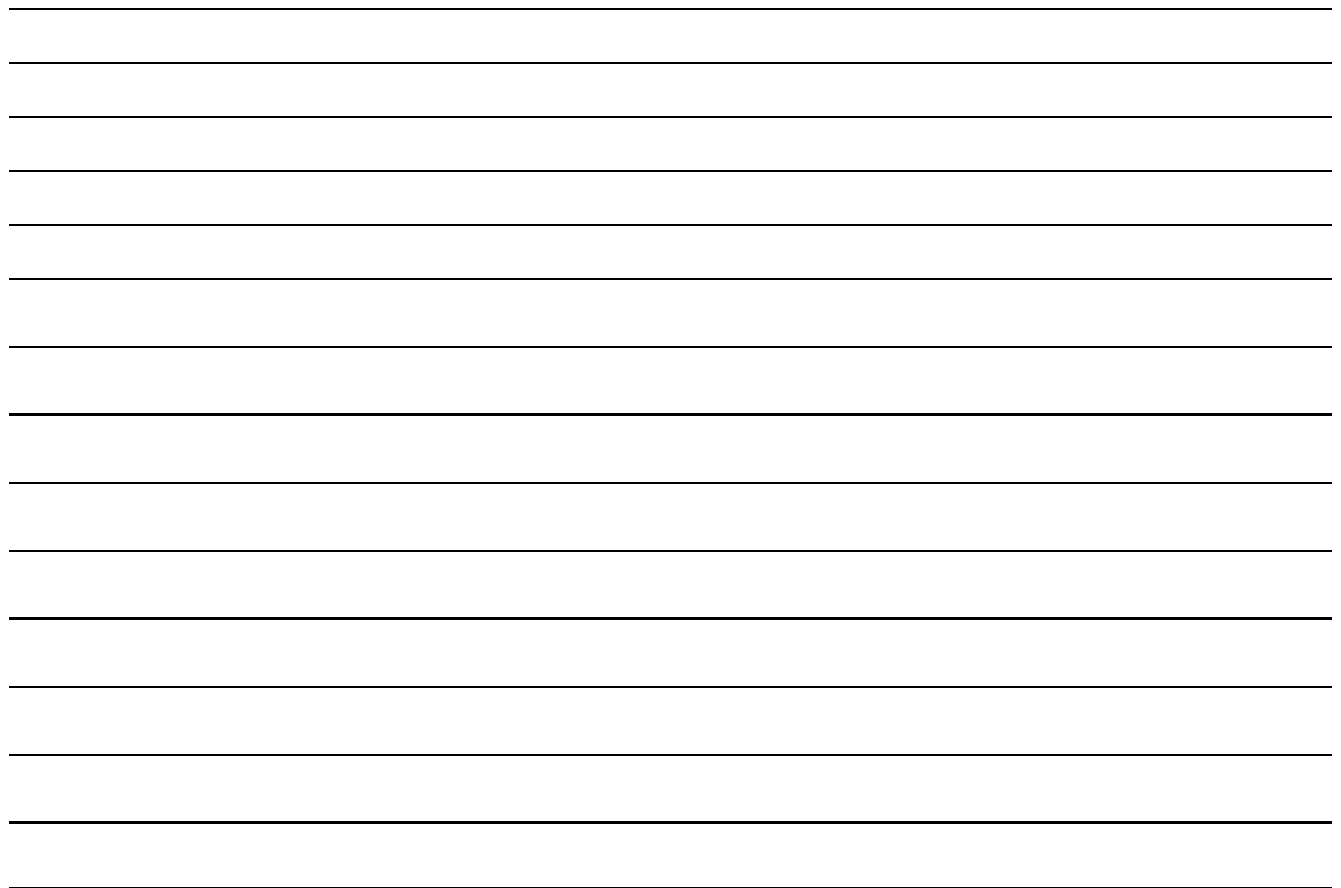
Comments on the condition:

The following section should only be filled out for INDIVIDUAL turtle sightings.
Be sure to carefully read the notes at the end of section 11.7 of the manual before proceeding.

IDENTIFICATION:

Indicate the number of:	Yes	No	Unk.	DORSAL COLORATION	
Left costal scutes: 	¿Overlapping scutes?	[]	[]	[]	Red/Orange [] 1
Right costal scutes: 	¿Inframarginal pores?	[]	[]	[]	Gray [] 2
Vertebral scutes: 	¿1 pair of prefrontal scales?	[]	[]	[]	Green [] 3
Inframarginal scutes: 	¿Leathery shell (not hard)?	[]	[]	[]	Other / Unknown [] 4

DIMENSIONS (cm):	TAGS:
Shell length over the curve 	If the turtle is tagged,
Shell width over the curve 	
Head width 	record the tag number(s):
Tail length 	If you tagged the turtle, note the number:

[illegible]

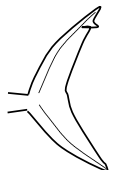
EPO – 7 SHARK RECORD

Trip number	Record number	Set number	Species	Total number of sharks


INDIVIDUAL RECORD						COLLECTIVE RECORD				
Total length (cm)	Estimation	Sex			Fate (code)	Estimate by number of individuals				Fate (code)
		M	F	Unk		Small < 90 cm	Medium 90 – 150 cm	Large > 150 cm	Total	
	[]	[]	[]	[]	[]					[]
	[]	[]	[]	[]	[]					[]
	[]	[]	[]	[]	[]					[]
	[]	[]	[]	[]	[]					[]
	[]	[]	[]	[]	[]					[]
	[]	[]	[]	[]	[]					[]
	[]	[]	[]	[]	[]					[]
	[]	[]	[]	[]	[]					[]
	[]	[]	[]	[]	[]					[]
	[]	[]	[]	[]	[]					[]
	[]	[]	[]	[]	[]					[]
	[]	[]	[]	[]	[]					[]
	[]	[]	[]	[]	[]					[]
	[]	[]	[]	[]	[]					[]

FATE CODES
 1 - Retained
 2 - Discarded
 3 - Released alive
 4 - Other
 5 - Unknown

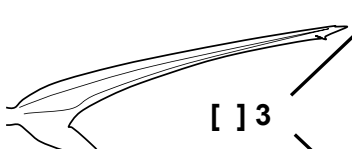
CAUDAL FIN SHAPE



[] 1



[] 2



[] 3

If option 3 is chosen, complete the sections to the right (3.1 – 3.4)


None of these

[] 4

Could not determine

[] 5

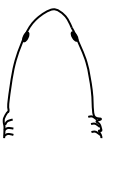
Dorsal view of head



eyes are easily visible

neck groove

[] 3.1



[] 3.2

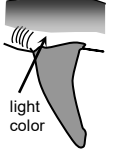
Neither of these

[] 3.3

Could not determine

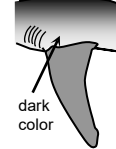
[] 3.4

Flank coloration



light color

[] 3.1



dark color

[] 3.2


Neither of these

[] 3.3

Could not determine


[] 3.4

HEAD SHAPE



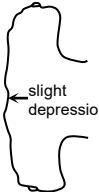
cleft

[] 1



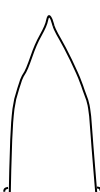
3 lobes

[] 2




slight depression


[] 3



[] 4



[] 5



[] 6

None of these

[] 7

Could not determine

[] 8

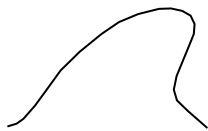
FIRST DORSAL FIN SHAPE



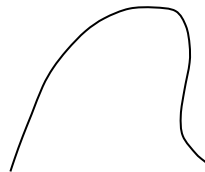
[] 1



[] 2



[] 3

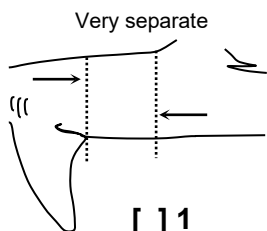


[] 4

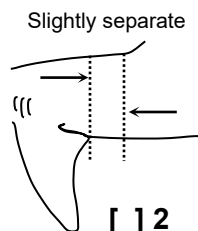
None of these
[] 5

Could not determine
[] 6

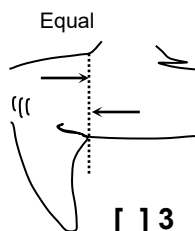
DISTANCE BETWEEN FIRST DORSAL FIN AND PECTORAL FIN



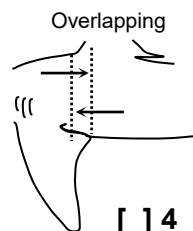
[] 1



[] 2



[] 3

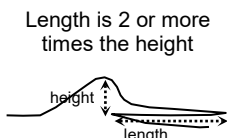


[] 4

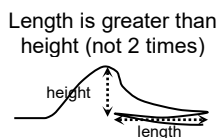
None of these
[] 5

Could not determine
[] 6

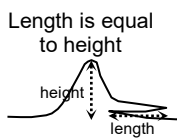
INTERNAL BORDER LENGTH OF SECOND DORSAL FIN



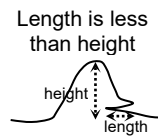
[] 1



[] 2



[] 3

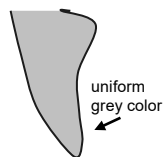


[] 4

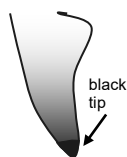
None of these
[] 5

Could not determine
[] 6

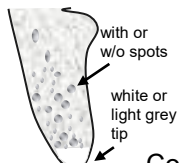
PECTORAL FIN COLORATION (external side)



[] 1



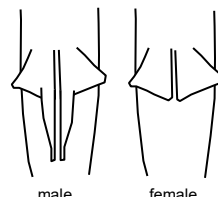
[] 2



[] 3

None of these
[] 4

Could not determine
[] 5

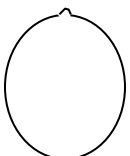


male

female

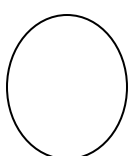
PRESENCE - ABSENCE OF INTERDORSAL CREST

Present



[] 1

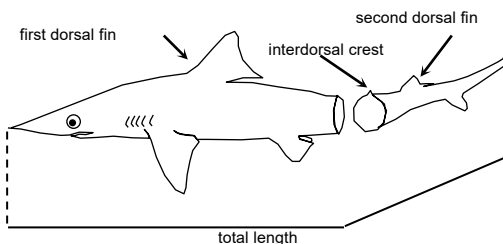
Absent



[] 2

Unsure
[] 3

Could not determine
[] 4



COMMENTS:



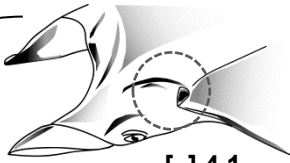
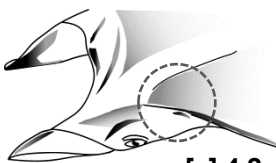

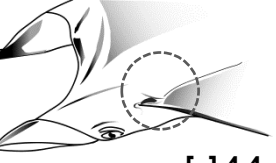

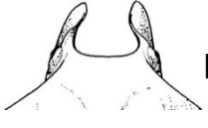

EPO - 8 RAY RECORD

Trip number	Record number	Set number	Species	Total number of rays







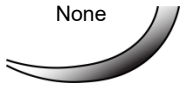


INDIVIDUAL RECORD						COLLECTIVE RECORD				
Disc width (cm)	Estimation	Sex			Fate (code)	Estimate by number of individuals				Fate (code)
		M	F	U		Small < 90 cm	Medium 90 – 150 cm	Large > 150 cm	Total	
	[]	[]	[]	[]						
	[]	[]	[]	[]						
	[]	[]	[]	[]						
	[]	[]	[]	[]						
	[]	[]	[]	[]						
	[]	[]	[]	[]						
	[]	[]	[]	[]						

FATE CODES
 1- Retained 3- Released alive 5- Unknown
 2- Discarded 4- Other

HEAD SHAPE (Drawings not to scale)**SPIRACLE POSITION**

 [] 1	 [] 2	 [] 4.1  [] 4.2  [] 4.3  [] 4.4 None of these [] 4.5 Could not determine [] 4.6
 [] 3	 [] 4	
 [] 5	For option 4, complete the section to the right	
None of these [] 6	Could not determine [] 7	

MOUTH POSITION (ventral view)**TAIL SPINE**

Terminal  [] 1  [] 2  [] 3	Ventral  [] 1  [] 2  [] 3 Could not determine [] 4	None  [] 1 One  [] 2 Two  [] 3 None of these [] 4 Could not determine [] 5
--	--	--




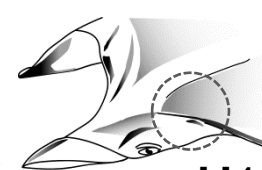
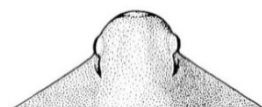

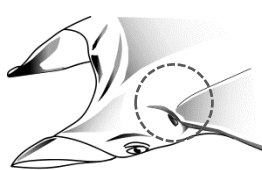
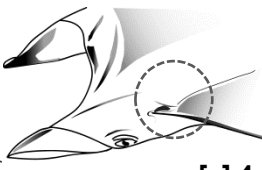
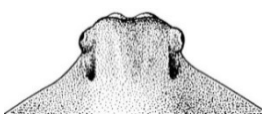
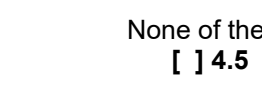
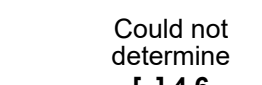
COMMENTS



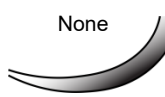




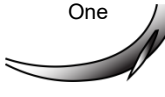

EPO - 8 RAY RECORD

Trip number	Record number	Set number	Species	Total number of rays

INDIVIDUAL RECORD						COLLECTIVE RECORD				
Disc width (cm)	Estimation	Sex			Fate (code)	Estimate by number of individuals				Fate (code)
		M	F	U		Small < 90 cm	Medium 90 – 150 cm	Large > 150 cm	Total	
	[]	[]	[]	[]						
	[]	[]	[]	[]						
	[]	[]	[]	[]						
	[]	[]	[]	[]						
	[]	[]	[]	[]						
	[]	[]	[]	[]						
	[]	[]	[]	[]						
	[]	[]	[]	[]						

FATE CODES
 1- Retained 3- Released alive 5- Unknown
 2- Discarded 4- Other

HEAD SHAPE (Drawings not to scale)		SPIRACLE POSITION	
 [] 1	 [] 2	 [] 4.1	 [] 4.2
 [] 3	 [] 4	 [] 4.3	 [] 4.4
 [] 5	For option 4, complete the section to the right	 [] 4.5	 [] 4.6
None of these [] 6	Could not determine [] 7	None of these [] 4.5	Could not determine [] 4.6

MOUTH POSITION (ventral view)		TAIL SPINE	
Terminal	Ventral	None	None of these [] 4
 [] 1.1	 [] 1.2	 [] 2.1	Could not determine [] 5
 [] 1.2	 [] 1.3	One	
 [] 1.3	 [] 1.4	 [] 2.2	
		Two	
		 [] 2.3	

COMMENTS