AGREEMENT ON THE INTERNATIONAL DOLPHIN CONSERVATION PROGRAM

45TH MEETING OF THE PARTIES

La Jolla, California (USA) 18-19 October 2022

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REPORT ON THE INTERNATIONAL DOLPHIN CONSERVATION PROGRAM

1.	Introduction	. 1
2.	The On-Board Observer Program	. 2
	Dolphin mortality	
	Distribution of fishing effort	
	International Review Panel	
	Tuna tracking and verification	
	Resolutions, amendments and other decisions affecting the operation of the IDCP	
	Other functions performed by the Secretariat	

1. INTRODUCTION

In the eastern Pacific Ocean (EPO), schools of yellowfin tuna frequently associate with marine mammals, especially spotted, spinner, and common dolphins. When the purse-seine fishery for tunas in the EPO began around 1960, the fishermen found that their catches of yellowfin in the EPO could be maximized by setting these nets around a herd of dolphins and the associated school of tunas. However, releasing the dolphins while retaining the tuna proved more difficult, and in the early years of the fishery many dolphins died during this process. As techniques and equipment to solve this problem were developed, this mortality fell, gradually at first and dramatically in the 1990s, thanks to the combined efforts of the fishing industry, governments, the Inter-American Tropical Tuna Commission (IATTC), non-governmental environmental organizations, and other interested parties.

The 1992 La Jolla Agreement provided a framework for international efforts to reduce this mortality and introduced novel and effective measures as Dolphin Mortality Limits (DMLs) for individual vessels and the establishment of the International Review Panel to monitor the performance and compliance of the fishing fleet. The Agreement on the International Dolphin Conservation Program (AIDCP), which built on and formalized the provisions of the La Jolla Agreement, was signed in May 1998 and entered into force in February 1999. The Parties to the AIDCP committed to "ensure the sustainability of tuna stocks in the eastern Pacific Ocean and to progressively reduce the incidental dolphin mortalities in the tuna fishery of the eastern Pacific Ocean to levels approaching zero and to avoid, reduce and minimize the incidental catch and the discard of juvenile tuna and the incidental catch of non-target species, taking into consideration the interrelationship among species in the ecosystem."

As of 30 September 2022, Belize, Colombia, Costa Rica, Ecuador, El Salvador, the European Union, Guatemala, Honduras, Mexico, Nicaragua, Panama, Peru, the United States, and Venezuela have ratified or acceded to the Agreement. Bolivia and Vanuatu are applying the AIDCP provisionally. At the request of the Parties and in compliance with Article VII, paragraph 1 (t) of the Antigua Convention, the IATTC provides the Secretariat for the AIDCP including support for implementation of the Agreement, which comprises the coordination of the On-Board Observer Program and the <u>Tuna Tracking and Verification System</u>.

2. THE ON-BOARD OBSERVER PROGRAM

The AIDCP On-Board Observer Program is composed of the IATTC observer program and the national observer programs of Colombia (Programa Nacional de Observadores de Colombia, PNOC), Ecuador (Programa Nacional de Observadores Pesqueros de Ecuador; PROBECUADOR), the European Union (Programa Nacional de Observadores de Túnidos, Océano Pacífico; PNOT), Mexico (Programa Nacional de Aprovechamiento del Atún y Protección de Delfines; PNAAPD), Nicaragua (Programa Nacional de Observadores de Nicaragua; PRONAON, administered by the Programa Nacional de Observadores Panameños, (PRONAOP), Panama (PRONAOP), and Venezuela (Programa Nacional de Observadores de Venezuela; PNOV). Additionally, at its 82nd meeting in July 2011, the IATTC agreed on a Memorandum of Cooperation (MOC) with the Western and Central Pacific Fisheries Commission (WCPFC) for cross-endorsement of observers from the IATTC program and the WCPFC's Regional Observer Program to monitor vessels that fish or transit the high-seas or other specified areas in the Convention Areas of both organizations.

2.1. Observer coverage

The AIDCP requires that observers are placed aboard 100% of trips in the Agreement Area by purse-seine vessels of carrying capacity greater than 363 metric tons (Class 6). However, the challenges presented by the COVID-19 pandemic beginning in March 2020 have made necessary several adaptations and deviations from the typical implementation of this observer coverage requirement.

The Chairs of the AIDCP Meeting of the Parties and of the IATTC, through circular memorandum ref. 0150-420 dated 30 March 2020, after contacting and consulting with a number of the Parties and convinced that priority must be given to the right to food security and the need to continue ensuring the provision of food to the people, made a number of recommendations aiming at exempting any vessel for which it is impossible to place an observer on board in compliance with the applicable IATTC and AIDCP rules from its corresponding obligations.

After extensive consultations with the Parties, these recommendations were developed and formalized in a document entitled *COVID-19 Pandemic Exemption Procedure for the Operation of On-Board Observers*, which was circulated through memorandum ref. 0170-420 dated 14 April 2020 (Annex 1). This exemption procedure has been extended several times during 2020, and 2021. The last decision on the matter, as requested by the IATTC and the AIDCP chairs on 21 June 2022, extended the application of these procedures through 30 September 2022, but an additional extension of these provisions through 31 December 2022 is under consideration at the time of the finalization of this report. With some global and national health authorities declaring that the pandemic phase has concluded or is nearly concluded and the lifting of most travel and immigration restrictions in many locations, IATTC staff anticipate that time when the AIDCP Parties and IATTC Members may choose to discontinue this exemption process may be drawing near and are planning accordingly.

The application of the above stated exceptional procedure had an adverse effect on the level of sampling coverage under the AIDCP. Under normal circumstances, consistent with the provisions of the AIDCP, national observer programs would have covered a specific percentage of the trips made by the various fleets. Normally, the Ecuadorian national program would have a goal of placing observers aboard 33% of the trips by Ecuadorian vessels while the Colombian, European Union, Mexican, Nicaraguan, Panamanian, and Venezuelan national programs each would have a goal of placing observers aboard 50% of the trips by their respective fleets.

The IATTC program would have covered the remainder of the trips by vessels of these seven fleets, plus 100% of the trips by vessels of other fleets, which represented a total of 60% of all trips.

As shown in <u>Table 1</u>, during 2021, observers completed 801 (94%) of the 851 fishing trips made in the Agreement Area by Class-6 vessels operating under the flags of Colombia, Ecuador, El Salvador, European Union (Spain), Mexico, Nicaragua, Panama, Peru, the United States, and Venezuela (<u>Table 1</u>). The difference was 50 trips on which a waiver of the AIDCP requirement to place an observer onboard was issued for a vessel operating in the Agreement area, for the following reasons:

1. No observers are available in the area or port of departure of the vessel.

- 2. Local or international travel/emigration restrictions at the point of embarkation or anticipated port of disembarkation present obstacles that cannot be overcome or create uncertainties in terms of getting the observer home after the end of the trip.
- 3. The vessel has experienced contagion onboard in a recent trip and there are no observers available that would accept deployments under those circumstances and the observer program is supportive of this decision.

Ten of the 50 trips identified above would fit in the first category, 33 trips fit the second category while 7 cases would fit the third category. This represents a slight increase in the number of exemptions certified in 2020, of which there were 44. Section 7 provides details of the implementation of these waiver certification procedures and accompanying requirements.

There were nine trips in which observers were deployed on vessels of Class-size 5, under the provision of Resolution C-12-08 for vessels with sealed wells.

2.2. Observer training

The IATTC staff did not conduct observer training courses for AIDCP observers during 2021.

3. DOLPHIN MORTALITY

3.1. Dolphin Mortality Limits (DMLs)

3.1.1. 2021 DMLs

The overall dolphin mortality limit (DML) for the international fleet in 2021 was 5,000 animals, and the unreserved portion of 4,900 was divided among 109 qualified vessels that requested DMLs.

As with many aspects of the program stated in this report, the statistics presented here are incomplete because of. As a result of the certified exemptions in 2021, observer coverage was absent or incomplete for 50 trips of Class-6 vessels. The procedure required vessels to self-report fishing activity, catch of targeted species as well as non-targeted species and bycatch including dolphin mortality. However, because the source of the dolphin mortality information of these trips is not independently assessed, as it is with observed trips, the data reported here do not consider self-reported dolphin mortality, if provided. Instead, dolphin mortality for 2021 is estimated, based on statistical analysis of observer data extrapolated to the entirety of the fleet's activity.

The distribution of dolphin mortalities in the fishery is shown in <u>Figure 1</u>. The average individual-vessel DML (ADML), based on 109 DML requests, was 45. Five vessels renounced their DML. Additionally, 16 vessels that did not utilize their DMLs prior to 1 April were allowed to keep them for the remainder of the year under the *force majeure* exemption allowed by the AIDCP, but nine of these DMLs were not utilized. Two vessels lost their DMLs due to no utilization prior to 1 April. Two vessels were granted a second-semester DML, and one was utilized. One vessel was assigned DMLs from the Reserve DML Allocation (RDA) managed at the discretion of the Director, in accordance with paragraph 7, Section I of Appendix IV of the AIDCP, and it was utilized. No vessel exceeded its DML in 2021.

3.1.2. 2022 DMLs

The Parties requested 110 DMLs for 2022 from the unreserved portion (4,900) of the overall fleet mortality limit. As of 3 September, the utilization of these DMLs is as follows:

DML (Limit per vessel)	Assigned	Utilized by April 1	Re- nounced	Lost due to no utilization	Exempt due to force majeure
Full year (44)	110	98	0	1	11
Second semester	2	N/A	0	0	0
RDA	2	N/A	0	0	0

3.2. Estimates of the mortality of dolphins in 2021 due to fishing

The estimate of the mortality of dolphins in the fishery in 2021 is 729 animals (<u>Table 2</u>), compared to 689 mortalities recorded in 2019. The mortalities for 1979-2021, by species and stock, are shown in <u>Table 3</u>, and the standard errors of these estimates are shown in <u>Table 4</u>. The estimates for 1979-1992 are based on a mortality-per-set ratio, while the mortalities for 1993-2021 are sums of the observed mortalities recorded by the AIDCP On-Board Observer Program, except where observed mortalities have been adjusted for unobserved trips first in 2001-2003, and more recently starting in 2020 because of the pandemic.

The mortalities of the principal dolphin species affected by the fishery have declined since the early 1990s (<u>Figures 2-3</u>). Estimates of the abundances of the various stocks of dolphins and the relative mortalities (mortality/abundance) are also presented in <u>Table 2</u>.

The number of sets on dolphin-associated schools of tuna made by Class-6 vessels was 9,887 in 2021, compared to 9,810 in 2020, and this type of set accounted for 38.2% of the total number of sets made in 2021, compared to 42.5% in 2020. The average mortality per set was 0.074 dolphins in 2021, compared to 0.070 dolphins in 2020. The trends in the numbers of sets on dolphin-associated fish, mortality per set, and total mortality in recent years are shown in Figure 3.

The catches of dolphin-associated yellowfin decreased by 7% in 2021, as compared to 2020. The percentage of the catch of yellowfin taken in dolphin sets was 62% of the total catch in 2021, compared to 69% in 2020 and 71% in 2019. The average catch of yellowfin per dolphin set increased to 16 metric tons per set in 2021, compared to 15.4 metric tons in 2020, and 15.1 metric tons in 2019. The mortality of dolphins per metric ton of yellowfin caught was 0.0046 in 2021, which is the same rate as in 2020.

The long-term decrease in the mortality per set is the result of efforts by the fishermen to better manage the factors that bring about mortalities of dolphins. Indicative of this effort is the number of sets without mortalities, which has risen from 38% in 1986 to 96.5% in 2021, and the average number of dolphins left in the net after backdown, which has decreased from 6.0 in 1986 to 0.1 or less since 2001and rates of 0.0 for the 2020 and 2021 (Table 5). The factors under the control of the fishermen which are likely to affect the mortality of dolphins per set include the occurrence of malfunctions, especially those which lead to net canopies and net collapses, and the time it takes to complete the backdown maneuver (Table 5). The percentage of sets with major mechanical malfunctions has decreased from an average of approximately 11% during the late 1980s to less than 5% during 1998-2020; in the same period the percentage of sets with net collapses decreased from about 30% to less than 2%, and that of net canopies from about 20% to less than 2%. Although the chance of dolphin mortality increases with the duration of the backdown maneuver, the average backdown time has changed little since 1986.

3.3. Reports of dolphin mortality by observers at sea

The AIDCP requires the Parties to establish a system, based on real-time observer reporting, to ensure effective implementation and compliance with per-stock, per-year dolphin mortality caps. Observers prepare weekly reports of dolphin mortality, by stock, which are then transmitted to the Secretariat via e-mail, fax, or radio. In June 2003 the Meeting of the Parties adopted Resolution A-03-02, which makes the vessel personnel responsible for transmitting these reports. During 2021 the reporting rate of observed trips averaged 100% (Table 6).

Despite of reaching a reporting rate of 100%, the Secretariat has called to the attention of the Parties a practice that has evolved for some years now and that the *ad interim* Director reminded the Parties on a memo dated 21 January 2022.

On the memo, the Director reminded the Parties that «through Resolutions C-03-04 and A- 03-02, both the IATTC and the Parties to the AIDCP decided:

"1. To require all purse-seine vessels which carry an on-board observer to transmit to the Secretariat a weekly report by the observer, by fax, e-mail, or radio, as appropriate" »

On several occasions, the vessel personnel is sending these reports to their companies, where they are compiled and resent to either the national programs, or IATTC field offices, creating an unnecessary delay, and changing the format of the reports which can lead to errors causing unnecessary additional work to the personnel that digitizes the information. This practice is not only inconsistent with the resolution but can also create problems considering that new resolutions require closer monitoring of certain tuna stocks like the Pacific bluefin tuna or the bigeye tuna. The staff is bringing this issue to the attention of the Parties to the AIDCP, but it is also planning to bring it to the attention of the Committee for the Review of Implementation of Measures Adopted by the Commission at its next meeting.

Since 1 January 2001, the Secretariat has been tracking the cumulative mortality for the seven stocks of dolphins most frequently associated with the fishery. The most recent reported mortalities are shown in Table 7.

4. DISTRIBUTION OF FISHING EFFORT

<u>Figures 4-6</u> compare the spatial distributions of fishing effort in the Agreement Area by vessels carrying observers, in numbers of sets, by type, in 2020 and 2021. The density of sets made in association with floating objects in 2021 appears to have increased some in the area to the east of Galapagos, as compared with 2020, but overall the distributions across all set types are substantially similar.

5. INTERNATIONAL REVIEW PANEL

The International Review Panel (IRP) follows a general procedure for reporting to the governments concerned non-compliance by their vessels with measures established by the AIDCP. During each fishing trip, the observer prepares a summary of information pertinent to dolphin mortalities, and this is sent by the Secretariat to the government with jurisdiction over the vessel. Several categories of possible infractions are automatically reported to the government with jurisdiction over the vessel in question; the IRP reviews the observer data for other cases at its meetings, and any cases identified as possible infractions are likewise reported to the relevant government. Governments report back to the IRP on actions taken regarding these possible infractions.

The IRP met on 16 August 2021, and on 13 October 2021 in La Jolla, California, USA. The minutes of IRP meetings are available on the <u>IATTC website</u>, along with the other documents posted for each set of meetings. Tables 8-9 and Appendix A of this report summarize possible infractions identified by the Panel at these meetings and subsequent action taken by the governments.

6. TUNA TRACKING AND VERIFICATION

The System for Tracking and Verifying Tuna, established in accordance with Article V.1.f of the AIDCP, enables "dolphin-safe" tuna, defined as tuna caught in sets without mortality or serious injury of dolphins, to be identified and tracked from the time it is caught through unloading, processing, and sale. The Tuna Tracking Forms (TTFs), completed at sea by observers, designate the tuna caught as dolphin safe (Form 'A') or non-dolphin safe (Form 'B'). This, in turn, allows for the verification of the dolphin-safe status of any tuna caught by a vessel covered by the AIDCP. This framework, administered by the Secretariat, also allows each Party to establish its own tracking and verification program, implemented and operated by a designated national authority. These programs include periodic audits and spot checks for tuna at the points of capture, landing, and processing, and provide mechanisms for communication and cooperation between and among national authorities, and timely access to relevant data. Each Party is required to provide the Secretariat with a report detailing its tracking and verification program.

A total of 539 trips by vessels fishing in the Agreement Area that arrived between 26 August 2021 and 25 May 2022 with an IDCP observer aboard were issued TTFs. Among these, by 15 July 2022, 530 TTF (98%) were transmitted to the Secretariat by the respective national authority. In addition, during the period of this report the Secretariat received 633 copies of *dolphin safe* certificates, and 610 certificates were considered valid. Finally, in two of the TTFs involved in the certification the certified weight exceeded by 10% the tuna considered as *dolphin safe* in the corresponding TTF. The Secretariat notified the corresponding national authority of this issue.

7. RESOLUTIONS, AMENDMENTS AND OTHER DECISIONS AFFECTING THE OPERATION OF THE IDCP

7.1 Implementation of observer waiver certification process

As noted in <u>Section 2.1</u>, the Parties to the AIDCP and the CPCs of the IATTC enacted a procedure to waive the requirement for observers on Class-6 vessels, under certain circumstances due to restrictions created by the pandemic and based on the assessment of observer programs.

The procedure was adopted based on the following three principles:

- Safeguarding individual and public health.
- Ensuring the conservation of the species covered by the IATTC and AIDCP, without detriment to the food security and productivity of the countries.
- Adopt transitional and exceptional measures that will make it possible to ensure the continuity of
 fishing operations without detriment to the capture of data as a fundamental basis of fisheries management.

Both the national and the IATTC observer programs have considered very carefully each situation when implementing this procedure, based on the principles cited, and the result has been that as noted above, the observer coverage have remained high (94%).

The procedure requires that the observer program issues the vessel management with a certification of the impossibility of placing an observer onboard, and to inform the authorities of the circumstances. An exemption is considered granted after the appropriate certification.

Fifty-certifications were issued for the same number of trips that started in 2021.

Flag	Observer una- vailable	Travel re- strictions	Contagion
Colombia	1	8	-
Ecuador	6	1	3
El Salvador	-	5	-
European Union (ESP)	-	4	1
Mexico	-	-	-
Nicaragua	-	-	-
Panama	-	1	2
Peru	-	8	1
United States	1	6	-
Venezuela	2	-	-
Total	10	33	7

Please note that this section of the report focuses on the implementation of the procedure. Section 2.1 provides information of observer coverage and the impact of this procedure on it. Some vessels, after receiving a certification, may have decided to wait for an observer to become available, or provided help to avoid the travel restrictions, for example by traveling to another port to embark the observer. On two occasions, vessels were issued a certification of the impossibility of placing an observer because none was available. The vessels decided to wait in port for observers to become available.

Finally, there were three occasions where vessels departing from ports outside the Agreement area requested an observer because they originally had plans to operate in the Agreement area but due to travel restrictions not allowing deployment of an observer, a certificate was issued. Nonetheless, the vessel changed fishing strategy and never entered the Agreement area.

As noted in <u>Section 3.1.1</u>, the exemption procedure requires "AIDCP Parties and IATTC Members ... to collect, record and report data and information for each trip, in simplified forms, exclusively data on tuna

catches and bycatch of other species (including dolphin mortality), by gear, fishing area and type of set, in accordance with the forms used by the IATTC until such time as it is possible to resume normal deployment of on-board observers."

Immediately after the approval of the exemption procedures, the IATTC staff prepared electronic forms that are easy to complete with simple instructions included, for operators to comply with this requirement. As noted in <u>Table 1</u> and <u>Section 2.1</u> above, 50 trips did not have observer onboard for the duration of the trip and compliance with these data provision requirements in 2021 was 100%.

7.2 Resolution A-19-01 on funding of national programs

This resolution approved during the 39th Meeting of the Parties of the AIDCP in Bilbao, Spain, requires that the AIDCP allocates 10% of the surplus of the observer program as of 31 December 2018, "to help replace equipment both for observers and for data processing, such as new-generation computer equipment which could not be updated due to lack of financial resources."

Additionally, this resolution required that the contribution *«be distributed equitably among all national programs»*.

The National Programs agreed to an allocation of the total available amount equivalent to US\$ 207,269 as follows: Colombia (7.1%); Ecuador (31.7%); European Union (3.3%); Mexico (31.0%); Nicaragua (4.3%); Panama (12.0%); and Venezuela (10.6%). Five (5) of the seven (7) programs have either begun utilizing the funds or have earmarked funds for intended use.

8. OTHER FUNCTIONS PERFORMED BY THE SECRETARIAT

8.1. Dolphin safety panel alignments

During 2021, the IATTC staff did not conduct any alignment of dolphin-safety panels (DSP) and inspections of dolphin rescue gear aboard purse-seine vessels. Nonetheless, at the request of one Party and due to the restrictions imposed during the pandemic, while deployed, an IATTC observer conducted an inspection of dolphin rescue gear.

8.2. Training and certification of fishing captains

The IATTC has conducted dolphin mortality reduction seminars for tuna fishermen since 1980. Article V of the AIDCP calls for the establishment, within the framework of the IATTC, of a system of technical training and certification of fishing captains. Under the system, the IATTC staff is responsible for maintaining a list of all captains qualified to fish for tunas associated with dolphins in the EPO. The names of the captains who meet the requirements are to be supplied to the IRP for approval and circulation to the Parties to the AIDCP.

The requirements for new captains are (1) attending a training seminar organized by the IATTC staff or by the pertinent national program in coordination with the IATTC staff, and (2) having practical experience relevant to making sets on tunas associated with dolphins, including a letter of reference from a captain currently on the List, the owner or manager of a vessel with a DML, or a pertinent industry association. These seminars are intended not only for captains, who are directly in charge of fishing operations, but also for other crew members and for administrative personnel responsible for vessel equipment and maintenance. The fishermen and others who attend the seminars are presented with certificates of attendance.

During 2021, three training seminars were held, which was attended by 24 fishermen.

Date	Program	Location
7-Apr	NMFS (USA)	On-line
4-Aug	PNOV (Venezuelan National Program)	Panama City, Panama
9-Sep	PNOV	Panama City, Panama

8.3. Statements of Participation

Statements of Participation are typically issued by the Secretariat on request to vessels that carry observers from the On-Board Observer Program. This statement certifies that the vessel has been participating in the IDCP, and that all its trips have been covered by observers; the second, issued to vessels of non-Parties, certifies only that all the vessel's trips have been covered by observers. During 2021, statements of the first type were issued for 133 fishing trips by vessels of Ecuador, European Union (Spain), El Salvador, Mexico, Nicaragua, Panama, Peru, United States of America and Venezuela.

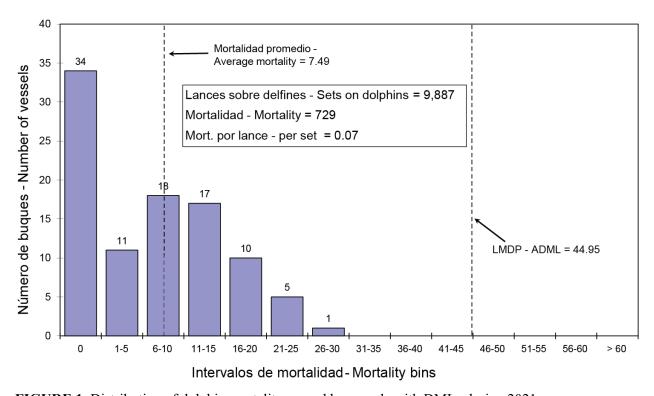


FIGURE 1. Distribution of dolphin mortality caused by vessels with DMLs during 2021. **FIGURA 1**. Distribución de la mortalidad de delfines causada por buques con LMD durante 2021.

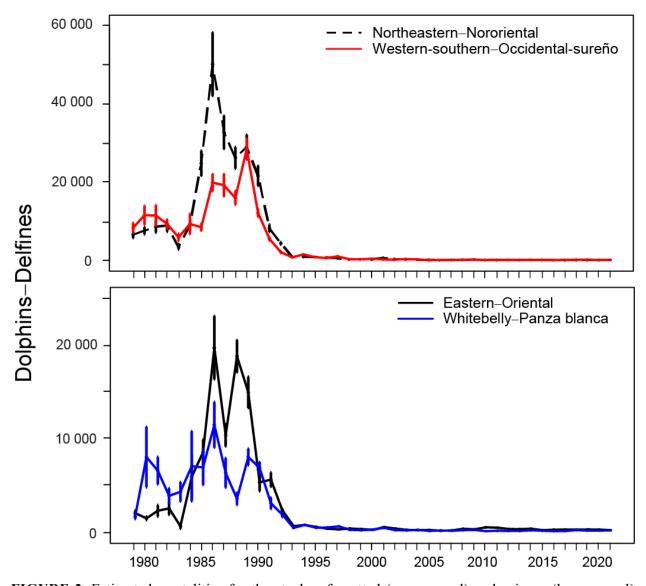


FIGURE 2. Estimated mortalities for the stocks of spotted (upper panel) and spinner (lower panel) dolphins in the Agreement Area, 1979-2021. Each vertical line represents one positive and one negative standard error.

FIGURA 2. Mortalidad estimada de las poblaciones de delfines manchados (panel superior) y tornillo (panel inferior) en el Área del Acuerdo, 1979-2021. Cada línea vertical representa un error estándar positivo y un error estándar negativo.

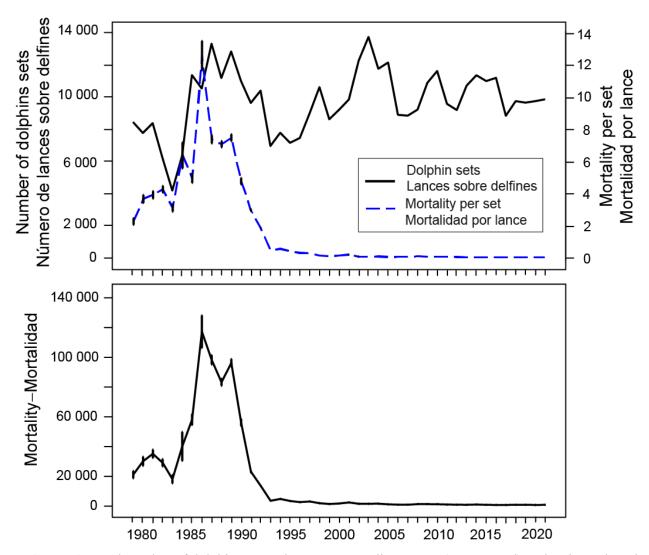


FIGURE 3. Total number of dolphin sets and average mortality per set (upper panel) and estimated total mortality (lower panel) for all dolphins in the Agreement Area, 1979-2021. Each vertical line represents one positive and one negative standard error.

FIGURA 3. Número total de lances sobre delfines y mortalidad media por lance (panel superior) y mortalidad total estimada (panel inferior) para todas especies de delfines en el Área del Acuerdo, 1979-2021. Cada línea vertical representa un error estándar positivo y un error estándar negativo.

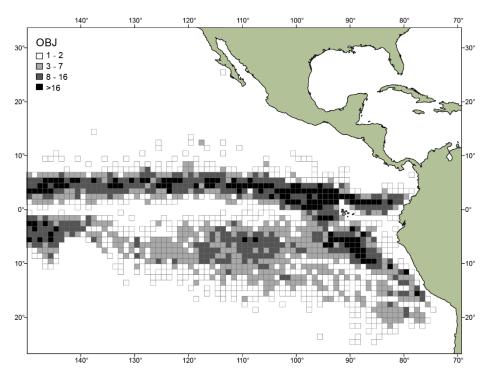


FIGURE 4a. Spatial distribution of sets on tuna associated with floating objects in the Agreement Area, 2020. **FIGURA 4a.** Distribución espacial de los lances sobre atunes asociados a objetos flotantes en el Área del Acuerdo, 2020.

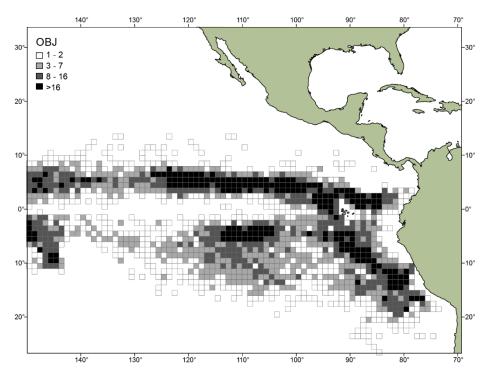


FIGURE 4b. Spatial distribution of sets on tuna associated with floating objects in the Agreement Area, 2021. **FIGURA 4b.** Distribución espacial de los lances sobre atunes asociados a objetos flotantes en el Área del Acuerdo, 2021.

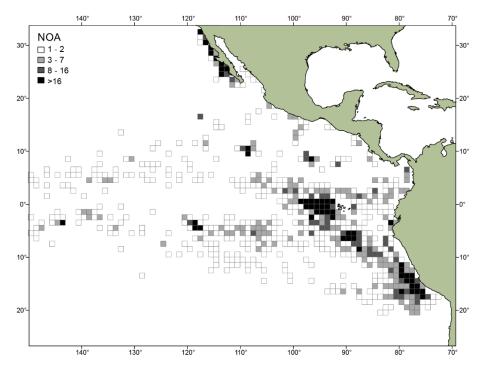


FIGURE 5a. Spatial distribution of sets on unassociated schools of tunas in the Agreement Area, 2020. **FIGURA 5a.** Distribución espacial de lances sobre cardúmenes de atunes no asociados en el Área del Acuerdo, 2020.

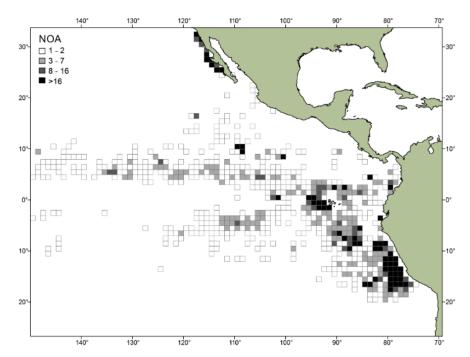


FIGURE 5b. Spatial distribution of sets on unassociated schools of tunas in the Agreement Area, 2021. **FIGURA 5b.** Distribución espacial de lances sobre cardúmenes de atunes no asociados en el Área del Acuerdo, 2021.

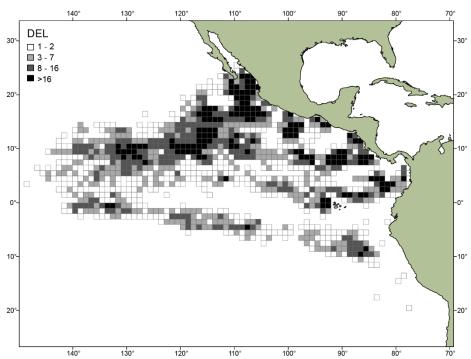


FIGURE 6a. Spatial distribution of sets on tuna associated with dolphins in the Agreement Area, 2020. **FIGURA 6a.** Distribución espacial de los lances sobre atunes asociados a delfines en el Área del Acuerdo, 2020.

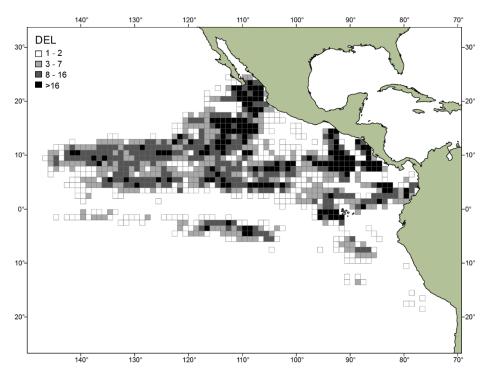


FIGURE 6b. Spatial distribution of sets on tuna associated with dolphins in the Agreement Area, 2021. **FIGURA 6b.** Distribución espacial de los lances sobre atunes asociados con delfines en el Área del Acuerdo, 2021.

TABLE 1. Coverage of vessels by the On-Board Observer Program of trips initiated during 2021 with activity in the Agreement Area.

TABLA 1. Cobertura de buques por el Programa de Observadores a Bordo de viajes iniciados durante 2021 con actividad en el Área del Acuerdo.

	Clase 6 – Class-6 por/by prog.					
				None -	%	
Pabellón - Flag	Viajes/Trips	Nac./Nat	CIAT/IATTC	Ninguno	obs.	
Colombia	45	18 (40)	18 (40)	9 (20)	80	
Ecuador	368	131 (36)	230 (63)	7 (2)	98	
El Salvador	16	_	11 (69)	5 (31)	69	
European Union (ESP) –			` ,			
Unión Europea (ESP)	10	-	3 (30)	7 (70)	30	
México	185	89 (48)	96 (52)	-	100	
Nicaragua	20	10 (50)	10 (50)	-	100	
Panamá	90	36 (40)	51 (57)	3 (3)	97	
Perú	9	-	-	9 (100)	0	
United States – Estados						
Unidos	63	-	55 (87)	8 (13)	87	
Venezuela	45	25 (56)	18 (40)	2 (4)	96	
Subtotal	851	309 (36)	492 (58)	50 (6)	94	
	Buques de clase 5 – Class 5 vessels					
Ecuador	9	3	6			
Todas las clases – All classes	860	312	498	50		

TABLE 2. Estimates of mortalities of dolphins in 2021, population abundance, and relative mortality, by stock.

TABLA 2. Estimaciones de la mortalidad de delfines en 2021, la abundancia de las poblaciones, y la mortalidad relativa, por población.

Species and stock	Mortality	Population abundance	Relative mortality (%)
Especie y población	Mortalidad	Abundancia de la población	Mortalidad relativa (%)
Offshore spotted dolphin—Delfin manchado de altamar ¹			
Northeastern—Nororiental	167	911,177	0.02
Western/southern—Occidental y sureño	174	911,830	0.02
Spinner dolphin—Delfin tornillo ¹			
Eastern—Oriental	195	790,613	0.02
Whitebelly—Panza blanca	173	711,883	0.02
Common dolphin—Delfin común ²			
Northern—Norteño	3	449,462	< 0.01
Central	6	577,048	< 0.01
Southern—Sureño	5	1,525,207	< 0.01
Other dolphins—Otros delfines ³	6		
Total	729		

¹Logistic model for 1986-2006 (IATTC SAB-07-05);

¹ Modelo logístico para 1986-2006 (CIAT SAB-07-05)

² Weighted averages for 1998-2003 (IATTC Special Report 14: Appendix 5)

² Promedios ponderados para 1998-2003 (Informe Especial de la CIAT 14: Anexo 5)

³ "Other dolphins" includes the following species and stocks, whose observed mortalities were as follows: Central American spinner dolphin (*Stenella longirostris centroamericana*) 6, striped dolphin (*Stenella coeruleoalba*) 3, roughtoothed dolphin (*Steno bredanensis*) 2, and unidentified dolphins, 1.

³ "Otros delfines" incluye las siguientes especies y poblaciones, con las mortalidades observadas correspondientes: delfin tornillo centroamericano (*Stenella longirostris centroamericana*) 6, (*Steno bredanensis*) 2, y delfines no identificados, 1.

TABLE 3. Annual estimates of dolphin mortality, by species and stock since 1979. **TABLA 3.** Estimaciones anuales de la mortalidad de delfines, por especie y población desde 1979.

Northeast Western Eastern White Southern Central Southern Others Total		Offshore	spotted ¹	Spir	nner		Common			
Namehad Continued Contin						N41		C41	Others	Total
Parva						Normern		Southern		
1979				Torr			Común			
1979 4,828 6,254 1,460 1,312 4,161 2,342 94 880 21,331 1980 6,468 11,200 1,108 8,132 1,060 963 188 633 29,752 1981 8,096 12,512 2,261 6,412 2,629 372 348 367 32,997 1982 9,254 9,869 2,606 3,716 989 487 28 1,347 28,296 1983 2,430 4,587 745 4,337 845 191 0 353 13,488 1984 7,836 10,018 6,033 7,132 0 7,403 6 156 38,584 1985 25,975 8,089 8,853 6,979 0 6,839 304 1,777 58,816 1986 52,035 20,074 19,526 11,042 13,289 10,884 134 5,185 132,169 1987 35,366 19,298 10,358 6,026 8,216 9,659 6,759 3,200 98,882 1988 26,625 13,916 18,793 3,545 4,829 7,128 4,219 2,074 81,129 1989 22,616 12,578 5,378 6,952 704 4,053 272 1,321 53,874 1991 9,005 4,821 5,879 2,974 161 3,182 115 990 27,127 1992 4,657 1,874 2,794 2,044 1,773 1,815 64 518 5,539 1993 1,112 773 725 437 139 230 0 185 3,601 1994 847 1,228 828 640 85 170 0 298 4,096 1995 952 859 654 4445 9 192 0 163 3,274 1996 818 545 450 447 77 51 30 129 2,547 1997 272 1,044 391 498 9 114 58 170 300 1998 298 341 422 249 261 172 33 100 1,876 1999 358 253 363 192 85 34 1 62 1,348 2000 295 435 275 262 54 223 10 82 1,636 2001 592 315 470 374 94 205 46 44 2,140 2002 2455 203 403 182 69 155 3 49 1,499 2003 288 335 290 170 133 140 97 39 1,492 2004 261 256 223 214 156 97 225 37 1,469 2006 147 135 160 144 129 86 40 45 886 2017 172 124 467 139 35 12 9 28 986 2018 194 181 188 356 183 49 13 9 16 975 2010 170 135 510 92 124 116 8 51 1,170 2011 172 124 467 139 35				Oriental		Norteño	Central	Sureño	Otros	Total
1980	1070								000	21 221
1981 8,096 12,512 2,261 6,412 2,629 372 348 367 32,997 1982 9,254 9,869 2,606 3,716 989 487 28 1,347 28,296 1983 2,430 4,587 745 4,337 845 191 0 353 13,488 1984 7,836 10,018 6,033 7,132 0 7,403 6 156 38,584 1985 25,975 8,089 8,853 6,979 0 6,839 304 1,777 58,816 1986 52,035 20,074 19,526 11,042 13,289 10,884 134 5,185 132,169 1987 35,366 19,298 10,358 6,026 8,216 9,659 6,759 3,200 98,882 1988 26,625 13,916 18,793 3,545 4,829 7,128 4,219 2,074 81,129 1989 28,898 28,530 15,245 8,302 1,066 12,711 576 3,123 98,451 1990 22,616 12,578 5,378 6,952 704 4,053 272 1,321 53,874 1991 9,005 4,821 5,879 2,974 161 3,182 115 990 27,127 1992 4,657 1,874 2,794 2,044 1,773 1,815 64 518 15,539 1,112 773 725 437 139 230 0 185 3,601 1994 847 1,228 828 640 85 170 0 298 4,096 1995 952 859 654 445 9 192 0 163 3,274 1996 72,11 1,044 391 498 9 114 58 170 3,005 1998 298 341 422 249 261 172 33 100 1,876 1999 358 253 363 192 85 34 1 62 1,348 2000 295 435 275 262 54 223 10 82 1,636 2001 592 315 470 374 94 205 46 44 2,140 2002 435 203 403 182 69 155 3 49 1,499 2004 261 256 223 214 156 97 225 37 1,469 2005 273 100 275 108 114 57 154 70 1,151 2006 147 135 160 144 129 86 40 45 886 2007 189 116 175 113 55 69 95 28 986 26 24 288 222 109 30 49 21 1,239 2004 266 254 288 222 109 30 49 21 1,239 2004 266 254 288 222 109 30 49 21 1,239 2004 181 168 356 183 49 13 9 16 975 2015 191 158 145 303 111 69 0 8 7 801 2014 181 168 356 183 49 13 9 16 975 20		-								
1982 9,254 9,869 2,606 3,716 989 487 28 1,347 28,296 1983 2,430 4,587 745 4,337 845 191 0 353 13,488 1984 7,836 10,018 6,033 7,132 0 7,403 6 156 38,584 1985 25,975 8,089 8,853 6,979 0 6,839 304 1,777 58,816 1986 52,035 20,074 19,526 11,042 13,289 10,884 134 5,185 132,169 1987 35,366 19,298 10,358 6,026 8,216 9,659 6,759 3,200 98,882 1988 26,625 13,916 18,793 3,545 4,829 7,128 4,219 2,074 81,129 1989 28,898 28,530 15,245 8,302 1,066 12,711 576 3,123 98,451 1990 22,616 12,578 5,378 6,952 704 4,053 272 1,321 53,874 1991 9,005 4,821 5,879 2,974 161 3,182 115 990 27,127 1992 4,657 1,874 2,794 2,044 1,773 1,815 64 518 15,539 1993 1,112 773 725 437 139 230 0 185 3,601 1994 847 1,228 828 640 85 170 0 298 4,096 1995 952 859 654 445 9 192 0 163 3,274 1996 818 545 450 447 77 51 30 129 2,547 1997 721 1,044 391 498 9 114 58 170 3,005 1998 298 341 422 249 261 172 33 100 1,876 1999 358 253 363 192 85 34 1 62 1,348 2000 295 435 275 262 54 223 10 82 1,636 2001 592 315 470 374 94 205 46 44 2,140 2002 435 203 403 182 69 155 3 49 1,499 2003 288 335 290 170 133 140 97 39 1,499 2004 261 256 223 214 156 97 225 37 1,469 2005 273 100 275 108 114 57 154 70 1,151 2016 147 135 160 144 129 86 40 45 886 2007 189 116 175 113 55 69 95 26 838 2008 184 167 349 171 104 14 137 43 1,169 2010 170 135 510 92 124 116 8 15 1,170 2011 172 124 467 139 35 12 9 28 860 2012 151 181 168 356 183 49 13 9 16 975										
1983										
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1990										
1991 9,005 4,821 5,879 2,974 161 3,182 115 990 27,127 1992 4,657 1,874 2,794 2,044 1,773 1,815 64 518 15,539 1993 1,112 773 828 840 85 170 0 298 4,096 1995 952 859 654 445 9 192 0 163 3,274 1996 818 545 450 447 77 51 30 129 2,547 1997 721 1,044 391 498 9 114 58 170 3,005 1998 298 341 422 249 261 172 33 100 1,876 1999 358 253 363 192 85 34 1 62 1,348 2000 295 435 275 262 54 223 10 82 1,636 2001 592 315 470 374 94 205 46 44 2,140 2002 435 203 403 182 69 155 3 49 1,499 2003 288 335 290 170 133 140 97 39 1,492 2004 261 256 223 214 156 97 225 37 1,469 2005 273 100 275 108 114 57 154 70 1,151 2006 147 135 160 144 129 86 40 45 886 2007 189 116 175 113 55 69 95 26 838 2008 184 167 349 171 104 14 137 43 1,169 2009 266 254 288 222 109 30 49 21 1,239 2010 170 135 510 92 124 116 8 15 1,170 2011 172 124 467 139 35 12 9 28 986 2012 151 187 302 107 49 43 30 18 870 2015 191 158 145 303 111 69 0 8 7 801 2014 181 168 356 183 49 13 9 16 975 2015 191 158 145 303 111 69 0 8 7 801 2014 181 168 356 183 49 13 9 16 975 2015 191 158 196 139 43 21 12 5 765 2016 127 111 243 89 82 36 9 5 702 2017 92 178 266 98 26 9 16 3 688 2018 99 197 252 205 41 1 1 18 6 819 2019 104 220 270 142 25 3 2 12 778 2020 105 154 251 138 1 17 3 20 688 2021 167 174 195 173 3 6 5 6 729 2011 167 174 195 173 3 6 5 6 729 2011 167 174 195 173 3 6 5 6 729 2011 167 174 195 173 3 6 5	1989									
1992 4,657 1,874 2,794 2,044 1,773 1,815 64 518 15,539 1993 1,112 773 725 437 139 230 0 185 3,601 1995 952 859 654 445 9 192 0 163 3,274 1996 818 545 450 447 77 51 30 129 2,547 1997 721 1,044 391 498 9 114 58 170 3,005 1998 298 341 422 249 261 172 33 100 1,876 1999 358 253 363 192 85 34 1 62 1,348 2000 295 435 275 262 54 223 10 82 1,636 2001 592 315 470 374 94 205 46 44 <td>1990</td> <td>22,616</td> <td>12,578</td> <td>5,378</td> <td>6,952</td> <td>704</td> <td>4,053</td> <td>272</td> <td>1,321</td> <td>53,874</td>	1990	22,616	12,578	5,378	6,952	704	4,053	272	1,321	53,874
1993 1,112 773 725 437 139 230 0 185 3,601 1994 847 1,228 828 640 85 170 0 298 4,096 1995 952 859 654 445 9 192 0 163 3,274 1996 818 545 450 447 77 51 30 129 2,547 1997 721 1,044 391 498 9 114 58 170 3,005 1998 298 341 422 249 261 172 33 100 1,876 1999 358 253 363 192 85 34 1 62 1,348 2000 295 435 275 262 54 223 10 82 1,636 2001 592 315 470 374 94 205 46 44 <t< td=""><td>1991</td><td>9,005</td><td>4,821</td><td>5,879</td><td>2,974</td><td>161</td><td>3,182</td><td>115</td><td>990</td><td>27,127</td></t<>	1991	9,005	4,821	5,879	2,974	161	3,182	115	990	27,127
1994 847 1,228 828 640 85 170 0 298 4,096 1995 952 859 654 445 9 192 0 163 3,274 1996 818 545 450 447 77 51 30 129 2,547 1997 721 1,044 391 498 9 114 58 170 3,005 1998 298 341 422 249 261 172 33 100 1,876 1999 358 253 363 192 85 34 1 62 1,348 2000 295 435 275 262 54 223 10 82 1,636 2001 592 315 470 374 94 205 46 44 2,140 2002 435 203 403 182 69 155 3 49 1,499 2003 288 335 290 170 133 140 97 39 1,492 2004 261 256 223 214 156 97 225 37 1,469 2005 273 100 275 108 114 57 154 70 1,151 2006 147 135 160 144 129 86 40 45 886 2007 189 116 175 113 55 69 95 26 838 2008 184 167 349 171 104 14 137 43 1,169 2009 266 254 288 222 109 30 49 21 1,239 2010 170 135 510 92 124 116 8 15 1,170 2011 172 124 467 139 35 12 9 28 986 2012 151 187 324 107 49 4 30 18 870 2013 158 145 303 111 69 0 8 7 801 2014 181 168 356 183 49 13 9 16 975 2015 191 158 196 139 43 21 12 5 765 2016 127 111 243 89 82 36 9 5 702 2017 92 178 266 98 26 9 16 3 688 2018 99 197 252 205 41 1 18 6 819 2019 104 220 270 142 25 3 2 12 778 2020 105 154 251 138 1 17 3 20 689 2021 167 174 195 173 3 6 5 6 729	1992	4,657	1,874	2,794	2,044	1,773	1,815	64	518	15,539
1995 952 859 654 445 9 192 0 163 3,274 1996 818 545 450 447 77 51 30 129 2,547 1997 721 1,044 391 498 9 114 58 170 3,005 1998 298 341 422 249 261 172 33 100 1,876 1999 358 253 363 192 85 34 1 62 1,348 2000 295 435 275 262 54 223 10 82 1,636 2001 592 315 470 374 94 205 46 44 2,140 2002 435 203 403 182 69 155 3 49 1,499 2003 288 335 290 170 133 140 97 295 37	1993	1,112	773	725	437	139	230	0	185	3,601
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2020 105 154 251 138 1 17 3 20 689 2021 167 174 195 173 3 6 5 6 729										
2021 167 174 195 173 3 6 5 6 729										
									6	729

¹ Estimates for offshore spotted dolphins include mortalities of coastal spotted dolphins.

¹ Las estimaciones de delfines manchados de altamar incluyen mortalidades de delfines manchados costeros.

TABLE 4. Standard errors of annual mortality estimates of dolphins, by species and stock, for 1979-1994. There are no standard errors for 1995-2000 and after 2003 because the coverage was at or nearly at 100% during those years.

TABLA 4. Errores estándar de las estimaciones anuales de la mortalidad de delfines, por especie y población, para 1979-1994. No se cuenta con errores estándar para 1995-2000 y después de 2003, porque la cobertura fue de 100%, o casi, en esos años.

	Offshor	e spotted	Spi	nner		Common		
	North-east- ern	Western- southern	Eastern	Whitebelly	Northern	Central	Southern	Other
	Manchado	de altamar	Tor	nillo		Común		
	Nor- oriental	Occidental y sureño	Oriental	Panza blanca	Norteño	Central	Sureño	Otros
1979	817	1,229	276	255	1,432	560	115	204
1980	962	2,430	187	3,239	438	567	140	217
1981	1,508	2,629	616	1,477	645	167	230	76
1982	1,529	1,146	692	831	495	168	16	512
1983	659	928	284	1,043	349	87	-	171
1984	1,493	2,614	2,421	3,773	-	5,093	3	72
1985	3,210	951	1,362	1,882	-	2,776	247	570
1986	8,134	2,187	3,404	2,454	5,107	3,062	111	1,722
1987	4,272	2,899	1,199	1,589	4,954	2,507	3,323	1,140
1988	2,744	1,741	1,749	668	1,020	1,224	1,354	399
1989	3,108	2,675	1,674	883	325	4,168	295	430
1990	2,575	1,015	949	640	192	1,223	95	405
1991	956	454	771	598	57	442	30	182
1992	321	288	168	297	329	157	8	95
2001	3	28	1	6	7	7	-	1
2002	1	2	1	1	1	1	1	1
2003	1	1	1	1	-	1	1	

TABLE 5. Percentages of sets with no dolphin mortalities, with major gear malfunctions, with net collapses, with net canopies, average times of backdown (in minutes), and average number of live dolphins left in the net at the end of backdown. 1986-2008 data are from trips observed by the IATTC program only; data after 2008 include trips covered by national programs.

TABLA 5. Porcentajes de lances sin mortalidad de delfines, con averías mayores, con colapso de la red, con abultamiento de la red, duración media del retroceso (en minutos), y número medio de delfines en la red después del retroceso. Los datos de 1986-2008 provienen de viajes observados por el programa de la CIAT solamente; los datos posteriores a 2008 incluyen viajes observados por los programas nacionales.

	Sets with zero mortality (%)	Sets with major malfunctions (%)	Sets with net collapse (%)	Sets with net canopy (%)	Average duration of backdown (minutes)	Average num- ber of live dol- phins left in net after back- down
1986	38.1	9.5	29.0	22.2	15.3	6.0
1987	46.1	10.9	32.9	18.9	14.6	4.4
1988	45.1	11.6	31.6	22.7	14.3	5.5
1989	44.9	10.3	29.7	18.3	15.1	5.0
1990	54.2	9.8	30.1	16.7	14.3	2.4
1991	61.9	10.6	25.2	13.2	14.2	1.6
1992	73.4	8.9	22.0	7.3	13.0	1.3
1993	84.3	9.4	12.9	5.7	13.2	0.7
1994	83.4	8.2	10.9	6.5	15.1	0.3
1995	85.0	7.7	10.3	6.0	14.0	0.4
1996	87.6	7.1	7.3	4.9	13.6	0.2
1997	87.7	6.6	6.1	4.6	14.3	0.2
1998	90.3	6.3	4.9	3.7	13.2	0.2
1999	91.0	6.6	5.9	4.6	14.0	0.1
2000	90.8	5.6	4.3	5.0	14.9	0.2
2001	91.6	6.5	3.9	4.6	15.6	0.1
2002	93.6	6.0	3.1	3.3	15.0	0.1
2003	93.9	5.2	3.5	3.7	14.5	< 0.1
2004	93.8	5.4	3.4	3.4	15.2	< 0.1
2005	94.9	5.0	2.6	2.7	14.5	< 0.1
2006	93.9	5.7	3.3	3.5	15.8	< 0.1
2007	94.2	5.1	1.6	3.4	15.2	< 0.1
2008	92.4	4.9	2.9	3.7	16.1	0.1
2009	93.3	5.2	1.8	3.1	16.7	< 0.1
2010	94.1	4.7	1.3	2.4	16.2	< 0.1
2011	94.0	4.1	1.9	2.1	16.3	< 0.1
2012	94.5	4.3	1.9	1.5	16.5	< 0.1
2013	95.4	4.2	1.3	1.3	15.4	< 0.1
2014	95.5	3.7	1.3	1.3	16.2	< 0.1
2015	96.4	4.3	1.1	1.2	15.4	< 0.1
2016	96.4	3.8	0.9	0.9	15.2	< 0.1
2017	96.2	3.6	1.0	1.0	15.9	< 0.1
2018	95.8	3.3	0.8	1.5	17.3	< 0.1
2019	95.8	4.1	1.1	1.1	16.6	< 0.1
2020	96.5	3.9	0.3	0.9	17.0	0
2021	96.5	3.5	0.7	0.8	17.0	0

TABLE 6. Weekly reports of dolphin mortality received, 2021. **TABLA 6.** Informes semanales de mortalidad de delfines recibidos, 2021.

Flag	Program	Required	Received	%
Colombia	CIAT - IATTC	168	168	100
	NalNat.	166	166	100
Ecuador	CIAT - IATTC	1,365	1,365	100
	NalNat	767	767	100
El Salvador	CIAT - IATTC	86	86	100
EU (ESP)	CIAT - IATTC	33	33	100
Mexico	CIAT - IATTC	711	711	100
	NalNat.	629	629	100
Nicaragua	CIAT - IATTC	68	68	100
	NalNat.	63	63	100
Panama	CIAT - IATTC	299	299	100
	NalNat.	240	240	100
USA	CIAT - IATTC	390	390	100
VEN	CIAT - IATTC	154	154	100
	NalNat.	181	181	100
Total		5,320	5,320	100.0

TABLE 7. Preliminary reports of the mortalities of dolphins in 2022, to 30 September.* **TABLA 7.** Informes preliminares de las mortalidades de delfines en 2022, hasta el 30 de septiembre.*

^{*} Como se explica en la Sección 3.1.1, estas cifras son estimaciones debido a circunstancias en las que los buques operan sin observadores.

Species and stock	Total mortality	Limit	Used (%)
Especie y población	Mortalidad total	Límite	Usado (%)
Offshore spotted dolphin – Delfin manchado de altamar			
NortheasternNororiental	104	793	13.1
Western-southernOccidental-sureño	172	881	19.5
Spinner dolphin – Delfin tornillo			
Eastern—Oriental	187	655	28.5
WhitebellyPanza blanca	256	666	38.4
Common dolphin – Delfin común			
Northern—Norteño	2	562	0.4
Central	22	207	10.6
Southern—Sureño	17	1,845	0.9
Others and unidentifiedOtros y no identificados	21		
Total	781	5,000	15.6

^{*}As explained in Section 3.1.1, these numbers are estimates due to circumstance of vessels operating without observers.

TABLE 8. Summary of possible infractions identified by the International Review Panel at its 67th and 68th meetings, August and October 2021.

TABLA 8. Resumen de posibles infracciones identificadas por el Panel Internacional de Revisión en su 67^a y 68^a reuniones, agosto y octubre de 2021.

INFRACCIONES MAYORES / MAJOR INFRACTIONS:	
Viaje sin observador	
Trips without an observer	1
Viajes con lances en delfines sin LMD asignado	
Trips with dolphin sets but no DML assigned	0
Viajes con capitanes no incluidos en la lista del APICD	
Trips with captains not on the AIDCP list – see corrective note in Appendix 1	2
Viajes sin paño de protección de delfines	
Trips without a dolphin safety panel	1
Lances intencionales después de alcanzar el LMD	
Intentional sets made after reaching the DML	0
Lances o cazas con uso de explosivos	
Sets or chases with use of explosives	0
Lances sobre stocks o tipos de manadas prohibidas	
Sets on banned stocks or school types	0
Lances sin retroceso	
Sets without a required backdown	1
Lances con embolsamiento o salabardeo de delfines	
Sets with dolphin sack-up or brail	1
Lances sin evitar herir o matar delfines	
Sets with unavoided dolphin injury or mortality	0
Total	6
OTRAS INFRACCIONES / OTHER INFRACTIONS:	
Viajes sin balsa	
Trips without a required raft	4
Viajes con < 3 lanchas rápidas y/o sin bridas de remolque	
Trips with < 3 speedboats and/or missing towing bridles	0
Viajes sin reflector de alta intensidad	
Trips without a required high-intensity floodlight	5
Viajes sin máscaras de buceo	
Trips without required facemasks	2
Lances nocturnos (ocurrieron en dos viajes)	
Night sets (occurred in two trips)	0
Lances sin rescate adicional	
Sets without required deployment of rescuer	0
Lances sin rescate después del retroceso	
Sets without continued rescue effort after backdown	0
Viajes con lances sobre delfines antes de la notificación del LMD	
Trips with dolphin sets before the DML notification	0
Total	11
Casos de interferencia al observador	11
Cases of observer interference	2
Viajes revisados en estas reunions	
Trips reviewed in these meetings	1,572
Lances sobre delfines revisados en estas reuniones	
Dolphin sets reviewed in these meetings	18,787
Lances accidentales revisados en estas reuniones	
	1
Accidental sets reviewed in these meetings	

TABLE 9. Responses for six types of possible infractions identified by the International Review Panel at its 67th and 68th meetings.

TABLA 9. Respuestas para seis tipos de posibles infracciones identificadas por el Panel Internacional de Revisión en su 67^a y 68^a reuniones.

	No. de casos	Sin respuesta	Respuestas						
			Bajo investi-	No hubo	Infracción:	Infracción:	Infracción:		Total
			gación ¹	infracción	sin sanción	aviso	sanción ²		
	No. of	No response	Responses						
	cases		Under in-	No infrac-	Infraction:	Infraction:	Infraction:		Total
			vestigation ¹	tion	no sanction	warning	sanction ²		
HOSTIGAMIENTO AL OBSERVADOR – OBSERVER HARASSMENT									
ECU	2	0 -	0	1	0	0	1	2	(100%)
Total:	2	0 -	0	1	0	0	1	2	(100%)

USO DE EXPLOSIVOS – USE OF EXPLOSIVES

Ningún caso identificado durante el periodo de este informe No identified cases during this report period

LANCES NOCTURNOS- NIGHT SETS

Ningún caso identificado durante el periodo de este informe No identified cases during this report period

PESCAR SIN OBSERVADOR – FISHING WITHOUT AN OBSERVER

Ningún caso identificado durante el periodo de este informe No identified cases during this report period

PESCAR SOBRE DELFINES SIN LMD – FISHING ON DOLPHINS WITHOUT A DML

Ningún caso identificado durante el periodo de este informe No identified cases during this report period

LANCES SOBRE DELFINES DESPUÉS DE ALCANZAR EL LMD-SETS ON DOLPHINS AFTER REACHING DML

Ningún caso identificado durante el periodo de este informe No identified cases during this report period

Appendix 1.

POSSIBLE INFRACTIONS IDENTIFIED BY THE IRP

Brief descriptions of government actions taken, as reported to the Secretariat by 20 September 2022, are included. If no action is listed for a possible infraction, the Secretariat has not received a response from the government.

Abbreviations: DSP = Dolphin Safety Panel

COLOMBIA *see note at the end of this appendix

Vessel IRP recno Review dateIdentified infractions

COL 2 2019-781 2021/08 1) 1 Trip without a required high intensity floodlight

ECUADOR

Vessel IRP recno Review dateIdentified infractions

ECU 1 2020-510 2021/08 1) 1 Trip without a dolphin safety panel

Action taken: 1) National regulations do not require dolphin safety gear if the vessel is not fishing in association with dolphins.

ECU 2 2021-596 2021/08 1) 1 Trip without a required raft

2021/08 2) 1 Trip without a required high intensity floodlight

Action taken: 1), 2) National regulations do not require dolphin safety gear if the vessel is not fishing in association with dolphins.

ECU 3 2020-129 2021/10 1) 1 Case of observer interference

Action taken: 1) The government is investigating the possible infractions.

2020-270 2021/08 1) 1 Trip without a required high intensity floodlight

Action taken: 1) The fisheries authority reported that the documentation which it had been provided with

concerning the case could not be used to initiate an administrative or judicial process under the relevant national laws and regulations, since it contained documents with erasures or amendments, which would not therefore be used as legal evidence. In these circumstances, the fisheries authority declare that it would not be able to consider this case as a possible infraction.

2020-608 2021/08 1) 1 Trip without a required high intensity floodlight

Action taken: 1) The fisheries authority reported that the documentation which it had been provided with

concerning the case could not be used to initiate an administrative or judicial process under the relevant national laws and regulations, since it contained documents with erasures or amendments, which would not therefore be used as legal evidence. In these circumstances, the fisheries authority declare that it would not be able to consider this case as a possible infraction.

ECU 4 2020-333 2021/08 1) 1 Trip without a required raft

2021/08 2) 1 Trip without required facemasks

Action taken: 1), 2) The fisheries authority reported that the documentation which it had been provided

with concerning the case could not be used to initiate an administrative or judicial process under the relevant national laws and regulations, since it contained documents with erasures or amendments, which would not therefore be used as legal evidence. In these circumstances, the fisheries authority declare that it would not be able to consider this case as a possible infraction.

2020-460 2021/08 1) 1 Trip without a required raft

2021/08 2) 1 Trip without required facemasks

Action taken: 1), 2) The fisheries authority reported that the documentation which it had been provided with concerning the case could not be used to initiate an adminis-

trative or judicial process under the relevant national laws and regulations, since it contained documents with erasures or amendments, which would not therefore be used as legal evidence. In these circumstances, the fisheries authority declare that it would not be able to consider this case as a possible infraction.

ECU 5 2020-828 2021/10 1) 1 Case of observer interference

Action taken: 1) The government initiated the proper administrative process.

MEXICO

Vessel IRP recno Review dateIdentified infractions

MEX 1 2019-583 2021/10 1) 1 Set without a required backdown

2021/10 2) 1 Set with dolphin sack-up or brail

Action taken: 1), 2) The government initiated the proper administrative process to investigate the possible infractions.

VENEZUELA

Vessel IRP recno Review dateIdentified infractions

VEN 1 2019-856 2021/08 1) 1 Trip without a required raft

Action taken: 1) The government decided that since this is a recurring infraction, it will initiate the appropriate administrative process.

VEN 2 2020-609 2021/08 1) 1 Trip with captain not on the AIDCP list

Action taken: 1) The Party determined that there was no infraction because the fishing captain, who had participated in an AIDCP seminar for fishing captains, got onboard in the middle of the fishing trip, during which no dolphin sets were made and no cases of non-compliance with the AIDCP requirements observed.

VEN 3 2020-913 2021/08 1) 1 Trip with captain not on the AIDCP list

Action taken: 1) The government decided that since this is a recurring infraction, it will initiate the appropriate administrative process.

VEN 4 2020-673 2021/08 1) 1 Trip without a required high intensity floodlight **Action taken:** 1) After investigating, the government decided that no infraction occurred.

*Note: Two possible infractions registered for Colombia, for trips with IRP record numbers 2020-770 and 2021-339 for fishing without an AIDCP-qualified captain, were dismissed because in both cases the fishing captain was already included in the AIDCP List of Qualified Captains.