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**THE TUNA FISHERY IN THE EASTERN PACIFIC OCEAN IN 2024**

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**IATTC<sup>1</sup>**

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<sup>1</sup> Inter-American Tropical Tuna Commission

INTER-AMERICAN TROPICAL TUNA COMMISSION

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INTRODUCTION .....	3
1. Catches and landings of tunas, billfishes, and associated species .....	3
2. Catches by species .....	4
3. Catches and fishing effort .....	7
4. Distributions of the catches of tropical tunas .....	7
5. Size compositions of the catches of tunas .....	8
6. The fleets .....	9

This report provides a summary of the catches and effort in 2024 of the fishery for tunas in the eastern Pacific Ocean (EPO), for whose management the Inter-American Tropical Tuna Commission (IATTC) is responsible. It is based on data available to the IATTC staff in March 2025; therefore, some of the data for 2023 and 2024 are incomplete, and all data for 2021, 2022, 2023 and 2024 should be considered preliminary. Any changes in the fishery statistics provided in this report for the years prior to 2020 are due to data updates reported by CPCs.

All weights of catches and discards are in metric tons (t). In the tables, 0 means no effort, or a catch of less than 0.5 t; - means no data collected; \* means data missing or not available. The following acronyms are used:

Species:		SWO	Swordfish ( <i>Xiphias gladius</i> )
ALB	Albacore tuna ( <i>Thunnus alalunga</i> )	TUN	Unidentified tunas
BET	Bigeye tuna ( <i>Thunnus obesus</i> )	YFT	Yellowfin tuna ( <i>Thunnus albacares</i> )
BIL	Unidentified istiophorid billfishes	Fishing gears:	
BKJ	Black skipjack ( <i>Euthynnus lineatus</i> )	FPN	Trap
BLM	Black marlin ( <i>Makaira indica</i> )	GN	Gillnet
BUM	Blue marlin ( <i>Makaira nigricans</i> )	HAR	Harpoon
BZX	Bonito ( <i>Sarda</i> spp.)	LHP	Handline
MLS	Striped marlin ( <i>Kajikia audax</i> )	LL	Longline
PBF	Pacific bluefin tuna ( <i>Thunnus orientalis</i> )	LP	Pole and line
SFA	Indo-Pacific sailfish ( <i>Istiophorus platypterus</i> )	LTL	Troll
SKJ	Skipjack tuna ( <i>Katsuwonus pelamis</i> )	LX	Hook and line
SSP	Shortbill spearfish ( <i>Tetrapturus angustirostris</i> )	MO	Multi-purpose
		OTR	Other <sup>1</sup>
		UNK	Unknown

<sup>1</sup> Used to group known gear types.

PS	Purse seine
RG	Recreational
TX	Trawl

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**Ocean areas:**


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EPO	Eastern Pacific Ocean
WCPO	Western and Central Pacific Ocean

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**Set types:**


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DEL	Dolphin
NOA	Unassociated school
OBJ	Floating object
	LOG: Flotsam
	FAD: Fish-aggregating device

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**Flags:**


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**IATTC Members & Cooperating Non-Members**


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BLZ	Belize
BOL	Bolivia
CAN	Canada
CHL	Chile
CHN	China
COL	Colombia
CRI	Costa Rica
ECU	Ecuador
EUR	European Union
EU (CYP)	Cyprus
EU (ESP)	Spain
EU (PRT)	Portugal
FRA	France
FRA (PYF)	French Polynesia
GTM	Guatemala
HND	Honduras
IDN	Indonesia
JPN	Japan
KIR	Kiribati
KOR	Republic of Korea
LBR	Liberia
MEX	Mexico
NIC	Nicaragua
PAN	Panama
PER	Peru
SLV	El Salvador
TWN	Chinese Taipei
USA	United States of America
VEN	Venezuela
VUT	Vanuatu

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**Other flag codes**


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COK	Cook Islands
MHL	Marshall Islands
NZL	New Zealand
PHL	Philippines
SLB	Solomon Islands
THA	Thailand
UNK	Unknown

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**Stock assessment:**


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<i>B</i>	Biomass
<i>C</i>	Catch
CPUE	Catch per unit of effort
<i>F</i>	Rate of fishing mortality
MSY	Maximum sustainable yield
<i>S</i>	Index of spawning biomass
SBR	Spawning biomass ratio
SSB	Spawning stock biomass

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## INTRODUCTION

This document summarizes the catches and effort of the fisheries for species covered by the IATTC's Antigua Convention (*"tunas and tuna-like species and other species of fish taken by vessels fishing for tunas and tuna-like species"*) in the eastern Pacific Ocean (EPO) in 2024. The most important of these species are the scombrids (family Scombridae), which include tunas, bonitos, seerfishes, and some mackerels. The principal species of tunas caught are the three tropical tuna species (yellowfin, skipjack, and bigeye), followed by the temperate tunas (albacore, and lesser catches of Pacific bluefin); other scombrids, such as bonitos and wahoo, are also caught. In addition to the tunas, this document covers the billfishes (swordfish, marlins, shortbill spearfish, and sailfish).

Complementary to this document, EB-03-01 (*Ecosystem Considerations*), provides information on other, non-target species (e.g., elasmobranchs (sharks, rays, and skates), sea turtles, and teleosts (e.g., dorado, wahoo, carangids), that belong to the same ecosystem and are affected by fishing for, or dependent on or associated with, the fish stocks covered by the Antigua Convention.

Access to the fisheries is regulated by Resolution [C-02-03](#), which allows only vessels on the IATTC [Regional Vessel Register](#) to fish for tunas in the EPO. Vessels are authorized to fish by their respective flag governments, and only duly authorized vessels are included in the Register. The Register lists, in addition to a vessel's name and flag, its fishing gear, dimensions, carrying capacity, date of construction, ownership, home port, and other characteristics. However, this requirement has not been applied to the thousands of small artisanal vessels, called *pangas*, that are known to catch tunas, among other species, in coastal waters of the EPO, but data on their numbers, effort, and catches are incomplete or unavailable. A pilot program, focused on sharks, to collect data on these fisheries in Central America has been completed ([SAC-11-14](#)). The results of the pilot study offer guidance in the development of a long-term sampling program in the region. With support from a second phase of the IATTC Common Oceans project to improve data collection for shark fisheries in the EPO, the sampling research conducted in Central America is expanding to other EPO coastal states, specifically Ecuador, Mexico and Peru ([SAC-15-10](#), SAC-16 INF-V, SAC-16 INF-W).

The IATTC staff has collected and compiled data on the longline fisheries since 1952, on catches of yellowfin and skipjack since 1954, bluefin since 1973, and bigeye since 1975. The data in this report, which are as accurate and complete as possible, are derived from various sources, including vessel logbooks, on-board observer data, unloading records provided by canners and other processors, export and import records, reports from governments and other entities, and the IATTC species and size composition port sampling program.

### 1. CATCHES AND LANDINGS OF TUNAS, BILLFISHES, AND ASSOCIATED SPECIES

Almost all the catches in the EPO are made by the purse-seine and longline fleets; pole-and-line vessels, and various artisanal and recreational fisheries, account for a small percentage of the total catches. The IATTC staff compiles catch data for all fishing gears, including trolls, harpoons, and gillnets.

Detailed catch data are available for the purse-seine fishery, which takes over 90% of the total reported catches; the data for the other fisheries are incomplete. Purse-seine data for 2023 and 2024, and 2021-2023 data for longlines and other gears, are preliminary.

Since 1993 all Class-6<sup>2</sup> purse-seine vessels carry observers, who collect detailed data on catches, including those discarded at sea. Estimates of the "retained" catch (the portion of the total catch that is landed) are based principally on data collected during vessel unloadings.

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<sup>2</sup> Class 6: carrying capacity greater than 363 metric tons (t).

Longline vessels, particularly the larger ones, fish primarily for bigeye, yellowfin, albacore, and swordfish. Data on the retained catches of most of the larger longline vessels are obtained from the vessels' flag governments; data for smaller longliners, artisanal vessels, and other vessels that fish for species covered by the Antigua Convention are incomplete or unavailable, but some are obtained from vessel logbooks, or from governments or governmental reports.

Data for the western and central Pacific Ocean (WCPO) are taken from the [Tuna Fishery Yearbook for 2024](#), published by the Western and Central Pacific Fisheries Commission (WCPFC).

This report summarizes data from all the above sources. The estimated total catches of tropical tunas (yellowfin, skipjack, and bigeye) in the entire Pacific Ocean are shown in [Table A-1](#) and are discussed further in the sections below.

Estimates of the annual retained and discarded catches of tunas and other species taken by tuna-fishing vessels in the EPO during 1995-2024 are shown in [Tables A-2a-b](#).

The catches of tropical tunas during 1995-2024, by flag, are shown in [Tables A-3a-e](#), and the purse-seine catches and landings of tunas during 2023-2024 are summarized by flag in [Tables A-4a-b](#).

## **2. CATCHES BY SPECIES**

### **2.1. Yellowfin tuna**

The total annual catches of yellowfin in the Pacific Ocean during 1995-2024 are shown in [Table A-1](#). The 2024 EPO catch of 294 thousand t is 14% higher than the average of 258 thousand t for the previous 10-year period (2014-2023). In the WCPO, the catches of yellowfin reached a record high of 747 thousand t in 2021.

The annual retained catches of yellowfin in the EPO, by gear, during 1995-2024 are shown in [Table A-2a](#). Over the most recent 10-year period (2014-2023), the annual retained purse-seine catches have fluctuated around an average of 246 thousand t (range: 211 to 298 thousand t). The preliminary estimate of the retained catch in 2024, 294 thousand t, is 1% lower than that of 2023, and 19% higher than the 2014-2023 average. Less than 1% of the total purse-seine catch of yellowfin was discarded at sea during the most recent 10-year period (average at 0.2% during the most recent 10-year period, 2014-2023) ([Table A-2a](#)).

During 1995-2006, annual longline catches in the EPO averaged about 19 thousand t (range: 10 to 30 thousand t), or about 6% of the total retained catches of yellowfin on average. They then declined sharply, to an annual average of 10 thousand t (range: 7 to 13 thousand t), or about 4% of the total retained catches, during 2007-2023. Catches by other fisheries (pole and line, recreational, gillnet, troll, artisanal, etc.), whether incidental or targeted, are shown in [Table A-2a](#), under "Other gears" (OTR); during 1995-2022 they averaged about 1.5 thousand t.

### **2.2. Skipjack tuna**

The total annual catches of skipjack in the Pacific Ocean during 1995-2024 are shown in [Table A-1](#). Most of the catch is taken in the WCPO. WCPO total annual catches of skipjack averaged 1.8 million t over the most recent 10-year period (2014-2023), reaching an all-time catch high of 2 million t in 2019. In the EPO, total catches of skipjack reached its maximum historical level of 645 thousand t in 2024, higher than the previous 10-year (2014-2023) average of 323 thousand t by approximately 100%.

The annual retained catches of skipjack in the EPO, by gear, during 1995-2024 are shown in [Table A-2a](#). During 2014-2023 the annual retained purse-seine catch averaged 320 thousand t (range: 261 to 389 thousand t). The preliminary estimate of the retained catch in 2024, 641 thousand t, is the highest historic level. This value is 100% greater than the 10-year average (320 thousand t) for 2014-2023.

Discards of skipjack at sea were less than 1.2% of the total purse-seine catches of the species (average at 0.7% during the most recent 10-year period, 2014-2023) ([Table A-2a](#)).

Catches of skipjack in the EPO by longlines and other gears are negligible ([Table A-2a](#)).

### **2.3. Bigeye tuna**

The total annual catches of bigeye in the Pacific Ocean during 1995-2024 are shown in [Table A-1](#). In the WCPO starting in 1995 the bigeye has been fluctuating between 107 thousand t and a historic peak of 183 thousand t in 2004. In the EPO, the average catch during 1995-2024 was 101 thousand t, with a low of 52 thousand t in 2024 and a high of 149 thousand t in 2000.

The annual retained catches of bigeye in the EPO by purse-seine vessels during 1995-2024 are shown in [Table A-2a](#). The introduction of fish-aggregating devices (FADs) in 1993, deployed by fishers to attract tunas, led to a sudden and dramatic increase in the purse-seine catches. From 1995 to 1999, the average annual retained purse-seine catch of bigeye in the EPO was 53 thousand t, and then in 2000 was over 95 thousand t. From 2001-2023, it has fluctuated between 42 and 84 thousand t; the preliminary estimates for 2024 is 34 thousand t.

During 2000-2024 the percentage of the purse-seine catch of bigeye discarded at sea has steadily decreased, from 5% in 2000 to less than 1% in 2022, averaging about 1.4%.

Before the expansion of the FAD fishery, longliners caught almost all the bigeye in the EPO. Since 1995, coinciding with the expansion of the FAD fishery, the longline fishery has accounted for about 38% of the total bigeye catch, averaging 39 thousand t during 1995-2023. The preliminary estimate for 2024 is approximately 18 thousand t ([Table A-2a](#)).

Small amounts of bigeye are caught in the EPO by other gears ([Table A-2a](#)).

### **2.4. Pacific bluefin tuna**

The catches of Pacific bluefin in the entire Pacific Ocean, by flag and gear, as reported by the vessels' flag governments to the International Scientific Committee for Tuna and Tuna-like Species in the North Pacific Ocean (ISC), are shown in [Table A-5a](#).

The catches of Pacific bluefin in the EPO during 1995-2024, by gear, are shown in [Table A-2a](#). EPO total annual catches of bluefin averaged 4.4 thousand t over the most recent 10-year period (2014-2023). During this same period, the purse-seine vessels accounted for 78% of the annual catch, on average. The 2014-2023 average EPO retained catch by purse seine vessels is 3.4 thousand t (range: 2.5 t to 5.3 thousand t); the preliminary estimate for 2024 is 3.5 thousand t ([Table A-2a](#)).

Catches of Pacific bluefin by recreational gear in the EPO during 1995-2024 are reported in numbers of individual fish caught ([Table A-5b](#)).

### **2.5. Albacore tuna**

Data provided by the relevant CPCs on catches of albacore in the EPO, by gear, are shown in [Table A-2a](#). The same information, by area (north and south of the equator), is also shown in [Table A-6](#). On average over the most recent 10-year period (2014-2023), troll vessels (LTL, included under "Other gears" (OTR) in [Table A-2a](#)) have accounted for 80% of the annual retained catches of albacore north of the equator. The total annual retained catches of albacore north of the equator averaged 14 thousand tons over the most recent 10-year period (2014-2023), with a range of 6 to 23 thousand tons. In contrast, retained catches of albacore south of the equator are predominantly taken by longline (LL) gear (averaging 99% over the same period). Total annual retained catches of albacore south of the equator during 2014-2023 averaged 25 thousand t (range: 17 to 30 thousand t).

## 2.6. Other tunas and tuna-like species

While yellowfin, skipjack, and bigeye tunas comprise the great majority of the retained purse-seine catches in the EPO, other tunas and tuna-like species, such as albacore, black skipjack, Pacific bluefin, bonito, frigate and bullet tunas, contribute to the overall harvest. The estimated annual retained and discarded catches of these species during 1995-2024 are shown in [Table A-2a](#). The catches reported in the “unidentified tunas” (TUN) category in [Table A-2a](#) contain some catches reported by species (frigate and bullet tunas) along with the unidentified tunas. The total retained catch of these other species by the purse-seine fishery in 2024 was 13 thousand t, equal to the 10-year average (2014-2023) average of 12 thousand t (range: 8 to 16 thousand t).

Black skipjack are also caught by other gears in the EPO, mostly by coastal artisanal fisheries. Bonitos are also caught by artisanal fisheries, and have been reported as catch by longline vessels in some years. Except for 2022, annual catch reports for bonitos have increased greatly from 2019 to 2023 (45-67 thousand t), largely due to new reports submitted by one CPC from its artisanal fisheries.

## 2.7. Billfishes

Catch data for billfishes (swordfish, blue marlin, black marlin, striped marlin, shortbill spearfish, and sailfish) are shown in [Table A-2b](#).

**Swordfish** are caught in the EPO with large-scale and artisanal longlines, gillnets, harpoons, and occasionally with recreational gear. During 1995-2014 the longline catch averaged 14 thousand t, but during 2015-2018 this increased by about 75%, to over 24 thousand t, possibly due to increased abundance of swordfish, increased effort directed toward the species along with improved fishing efficiency, increased reporting, or a combination of all of these.

**Other billfishes** are caught with large-scale and artisanal longlines and recreational gear. The average annual longline catches of blue marlin and striped marlin during the recent 10-year period (2014-2023) were about 3.0 thousand and 1.6 thousand t, respectively. Smaller amounts of other billfishes are taken by longline.

Little information is available on the recreational catches of billfishes, but, the retained catches are believed to be substantially less than the commercial catches for all species, due to catch-and-release practices.

Billfishes are caught incidentally in the purse-seine fisheries, which during 2014-2023 accounted for about 1% of the total catch of billfishes in the EPO. [Table A-2b](#)

### 3. CATCHES AND FISHING EFFORT

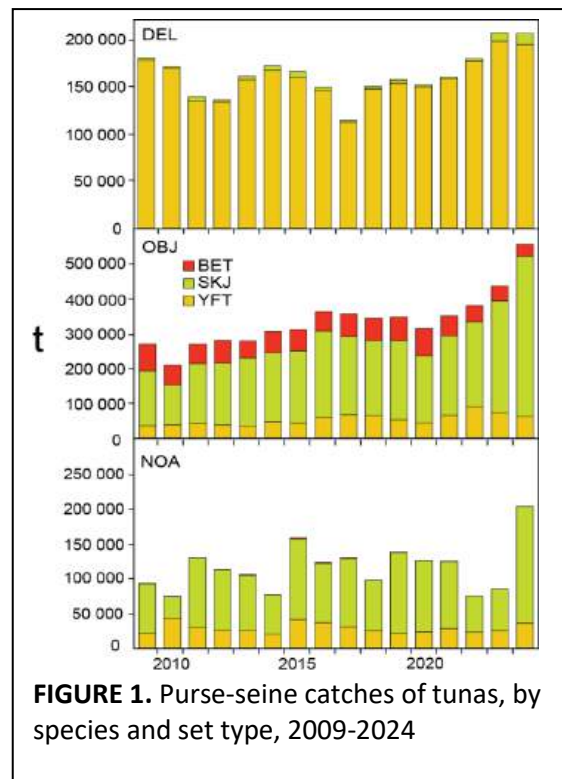
#### 3.1. Purse seine

Estimates of the numbers of purse-seine sets of each type (associated with dolphins (DEL), associated with floating objects (OBJ), and unassociated (NOA)) in the EPO during 2009-2024, and the retained catches from those sets, are shown in [Table A-7](#) and [Figure 1](#). The estimates for Class 1-5<sup>3</sup> vessels were calculated from logbook data in the IATTC statistical data base and some observer data from the voluntary TUNACONS program, and those for Class-6 vessels from the observer data bases of the IATTC, Colombia, Ecuador, the European Union, Mexico, Nicaragua, Panama, the United States, and Venezuela.

Since the introduction of artificial fish-aggregating devices (FADs) in the mid-1990s, they have become predominant in the floating-object fishery, and now account for an estimated 98% of all floating-object sets by Class-6 vessels ([Table A-8](#)).

#### 3.2. Longline

The reported nominal fishing effort (in thousands of hooks) by longline vessels in the EPO, and their catches of the predominant tuna species, are shown in [Table A-9](#).



**FIGURE 1.** Purse-seine catches of tunas, by species and set type, 2009-2024

### 4. DISTRIBUTIONS OF THE CATCHES OF TROPICAL TUNAS

#### 4.1. Purse-seine catches

The average annual distributions of purse-seine catches, by set type, of tropical tunas (yellowfin, skipjack, and bigeye) in the EPO during 2014-2023 are shown in [Figures A-1a](#), [A-2a](#), and [A-3a](#), respectively, and preliminary estimates for 2024 are shown in [Figures A-1b](#), [A-2b](#), and [A-3b](#).

**Yellowfin:** The majority of catches in 2024 were taken in sets associated with dolphins in two principal areas: north of 10°N from 105°W to 130°W, and inshore north of 5°S from 95°W to the coast. Lesser amounts of yellowfin were taken in dolphin and floating-objects sets in the offshore area when compared to the previous 10 years ([Figure A-1b](#)).

**Skipjack:** In 2024, catches primarily occurred in two main fishing areas: predominantly on floating object sets between 10°N and 5°S and from 90°W to 120°W, and also on floating objects and unassociated sets inshore between 5°N and 20°S from 90°W to the coast. The proportion of skipjack catch from floating object sets in the area between 10°N and 5°S and from 90°W to 120°W has increased over the previous 10 years and in the area inshore between 5°N and 20°S from 90°W to the coast the unassociated sets have increased over the previous 10 years. Also, the amount of skipjack caught in 2024 in floating-object sets on the western edge of the EPO is less than the previous 10 years, and catches from unassociated sets in the same area have also decreased ([Figure A-2b](#)).

**Bigeye** are not often caught north of about 10°N in the EPO. Almost all of the 2024 catches were taken

<sup>3</sup> ≤363 t carrying capacity.



in sets on floating object sets between the 10°N and 15°S and west of 90°W ([Figure A-3b](#)). Lesser amounts of bigeye were taken in floating object sets between 90°W to 150W than in the previous 10 years.

#### 4.2. Longline catches

Since 2009, the IATTC has received tuna catch and effort data from Belize, China, France (French Polynesia), Japan, the Republic of Korea, Panama, Chinese Taipei, the United States, and Vanuatu. Albacore, bigeye and yellowfin tunas make up the majority of the catches by most of these vessels. The distributions of the catches of bigeye and yellowfin in the Pacific Ocean by Chinese, Japanese, Korean, and Chinese Taipei longline vessels during 2019-2023 are shown in [Figure A-4](#).

### 5. SIZE COMPOSITIONS OF THE CATCHES OF TUNAS

#### 5.1. Purse-seine

Length-frequency samples are the basic source of data used for estimating the size and age compositions of the various species of fish in the landings. This information is necessary to obtain age-structured estimates of the populations for various purposes, primarily the integrated modeling that the staff uses to assess the status of the stocks (see [Stock Assessment Reports](#)). Length-frequency samples are obtained from the catches of purse-seine vessels in the EPO by IATTC personnel at ports of landing in Ecuador and Mexico. The methods for sampling the catches of tunas are described in the [IATTC Annual Report for 2000](#) and in IATTC [Stock Assessment Reports 2](#) and [4](#).

Historical long-term time series of size-composition data for yellowfin and bigeye are available in the [Stock Assessment Reports](#), and average length stock status indicators (SSIs) are available for yellowfin, bigeye and skipjack (SAC-16-02). In this report, data on the size composition of the catches during 2019-2024 are presented ([Figures A-6 to A-8](#)), with two sets of length-frequency histograms for each species: the first shows the data for 2024 by stratum (gear type, set type, and area), and the second the combined data for each year of the 2019-2024 period.

**Yellowfin:** nine purse-seine fisheries (four associated with floating objects (OBJ), three associated with dolphins (DEL), and two unassociated (NOA)) and one pole-and-line (LP) fishery, which includes all 13 sampling areas) are defined ([Figure A-5](#)). Of the 923 wells with fish caught during 2024, 741 contained yellowfin. The estimated size compositions of the fish caught are shown in [Figure A-6a](#). Most of the yellowfin catch was taken in the DEL fisheries throughout the year, with smaller amounts taken in the OBJ fisheries during the first three quarters of 2024. Large yellowfin (95-140 cm) were caught primarily in the DEL-I, DEL-S and DEL-N fishery in the all four quarters and in the NOA-N fishery in the first, third and fourth quarters. Smaller yellowfin (<80 cm) were taken in the OBJ fisheries in all four quarters.

The estimated size compositions of the yellowfin caught by all fisheries combined during 2019-2024 are shown in [Figure A-6b](#). The average weight of yellowfin in 2024, 9.8 kg, was higher than the previous years with the exception of 2020 that had an average weight of 10.5 kg. The size distribution shifted toward the middle of the range when compared to previous years, indicating fewer smaller and larger sized yellowfin in 2024.

**Skipjack:** seven purse-seine fisheries (four OBJ, two NOA, one DEL) and one LP fishery are defined ([Figure A-5](#)); the last two include all 13 sampling areas. Of the 923 wells with fish caught, 587 contained skipjack. The estimated size compositions of the fish caught during 2024 are shown in [Figure A-7a](#). Most of the skipjack catch was taken in the OBJ-N, OBJ-E, OBJ-I, OBJ-S and NOA-S fisheries in all four quarters. The largest skipjack (60-70 cm) were caught in the OBJ-E and OBJ-N fisheries in the third and fourth quarters. The smallest (<50 cm) were caught primarily in the OBJ-N, OBJ-I, OBJ-E, OBJ-S and NOA-S fisheries in the first two quarters.

The estimated size compositions of skipjack caught by all fisheries combined during 2019-2024 are shown in [Figure A-7b](#). The majority of the skipjack in 2024 was in the 40-60 cm range.

**Bigeye:** six purse-seine fisheries (four OBJ, one NOA, one DEL) and one LP fishery are defined ([Figure A-5](#)); all except the OBJ fisheries include all 13 sampling areas. Of the 923 wells with fish caught, 101 contained bigeye. The estimated size compositions of the fish caught during 2024 are shown in [Figure A-8a](#). Most of the smaller bigeye catch (<80 cm) was taken in the OBJ-N and OBJ-S fishery in the second and fourth quarters. The larger bigeye (>80 cm) was taken in the OBJ-N and OBJ-S fisheries in the second and fourth quarters.

The estimated size compositions of bigeye caught by all fisheries combined during 2019-2024 are shown in [Figure A-8b](#). The average weight of bigeye in 2024 (5.5 kg) was considerably higher than 2022 to 2023 (4.0 – 4.4 kg) and slightly higher than 2019 to 2021 (5.1 – 5.2 kg). The majority of bigeye caught in 2024 was in the 40-80 cm range, with less of the larger bigeye >80 cm than 2019-2023.

**Pacific bluefin** are caught by purse-seine and recreational gears off California and Baja California, historically from about 23°N to 35°N, but only between 28°N and 32°N in recent years. The 2024 purse-seine fishing season continued the trend of starting the first day in January: in 2024, bluefin were first caught in early January, and the fishery was closed in early March, when the annual catch limit was reached. Most of the catch is transported live to grow-out pens near the coast of Mexico. Mexico's National Observer Program (PNAAPD) submitted the length-composition data for purse-seine catches during 2018-2023 ([Figure A-9](#)). This data is provided every other year, so the figure will next be updated in 2026.

## 5.2. Longline fishery

The size compositions of yellowfin and bigeye caught by the Japanese longline fleet (commercial and training vessels) in the EPO during 2019-2023 are shown in [Figures A-10](#) and [A-11](#). The average annual weight during that period ranged from 42.8 to 55.2 kg for yellowfin, and from 64.7 kg to 77.3 kg for bigeye. Size composition data for 2021 and 2022 was not available due to difficulties resulting from the COVID-19 pandemic, which impacted the collection and analysis of 2021 and 2022 YFT and BET size data.

## 5.3. Catches of tunas, by flag and gear

The annual retained catches of tunas in the EPO during 1995-2024, by flag and gear, are shown in [Tables A-3a-e](#). The purse-seine catches of tunas in 2023 and 2024, by flag and species, are summarized in [Table A-4a](#). Of the nearly 981 thousand t of tunas caught in 2024, 43% were caught by Ecuadorian vessels, and 19% by Mexican vessels. Other countries with significant catches included Panama (15%), United States (6%), Colombia (4%), Venezuela (4%) and Nicaragua (2%). The purse-seine landings of tunas in 2023 and 2024, by species and country of landing, are summarized in [Table A-4b](#). Of the more than 984 thousand t of tunas landed in the EPO in 2024, 63% were landed in Ecuadorian ports, and 19% in Mexican ports. Other countries with landings of tunas in the EPO included Colombia (4%), Peru (3%) and the United States (3%).

# 6. THE FLEETS

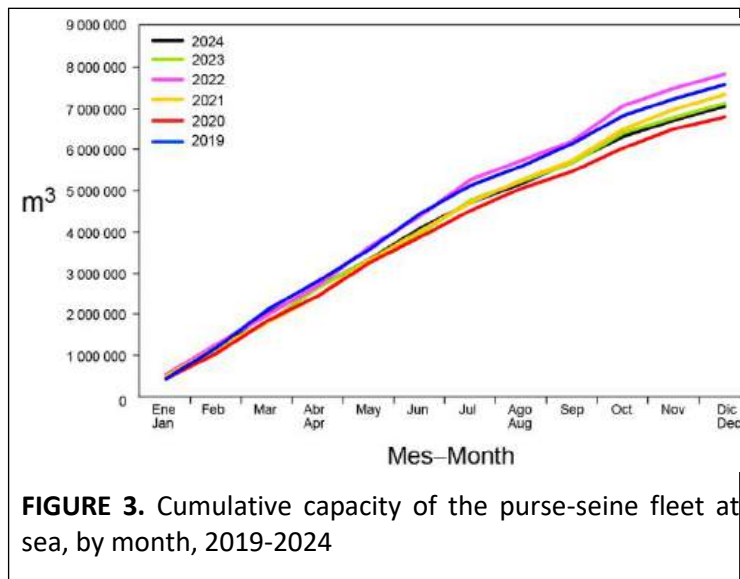
## 6.1. Purse seine

The IATTC [Regional Vessel Register](#) contains detailed records of all purse-seine vessels that are authorized to fish for tunas in the EPO. However, only vessels that fished for yellowfin, skipjack, bigeye, and/or Pacific bluefin tuna in the EPO in 2024 are included in the following description of the purse-seine fleet.

The IATTC uses well volume, in cubic meters (m<sup>3</sup>), to measure the carrying capacity of purse-seine vessels ([Table A-10](#); [Figure 2](#)).

The 2023 and preliminary 2024 data for numbers and total well volumes of purse-seine vessels that fished for tunas in the EPO are shown in [Tables A-11a](#) and [A-11b](#). During 2024, the fleet was dominated by Ecuadorian and Mexican vessels, with about 35% and 23%, respectively, of the total well volume; they were followed by the Panama (12%), United States (9%), Venezuela (6%), Colombia (6%), European Union (Spain) (4%), Nicaragua (2%), El Salvador (2%) and Peru (1%).<sup>4</sup>

The cumulative capacity at sea during 2024 is compared to those of the previous five years in [Figure 3](#).

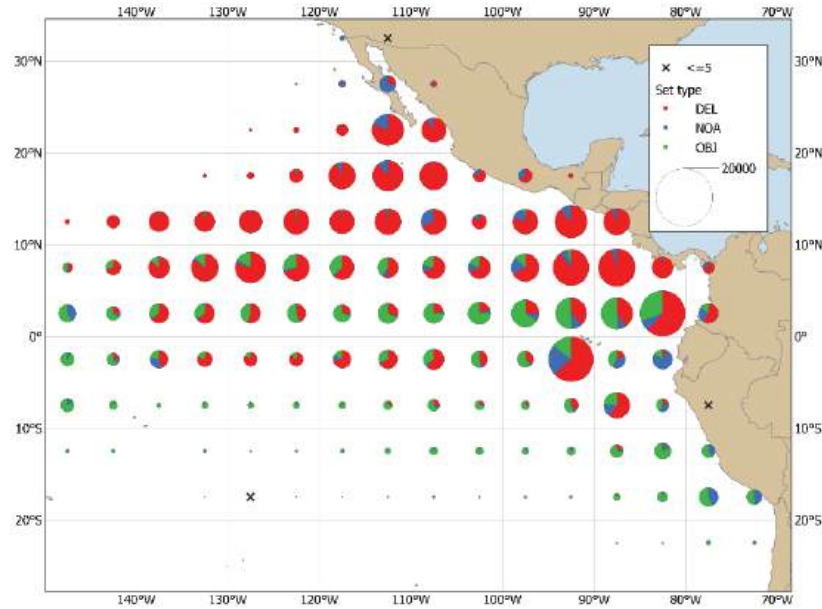


The monthly average, minimum, and maximum total well volumes at sea (VAS), in thousands of cubic meters, of purse-seine and pole-and-line vessels that fished for tunas in the EPO during 2014-2023, and the 2024 values, are shown in [Table A-12](#). The monthly values are averages of the VAS estimated at weekly intervals by the IATTC staff. The average VAS value for 2014-2023 was higher, at about 146 thousand m<sup>3</sup> (57% of total capacity), compared to 137 thousand m<sup>3</sup> (52% of total capacity) in 2024.

## 6.2. Other fleets of the EPO

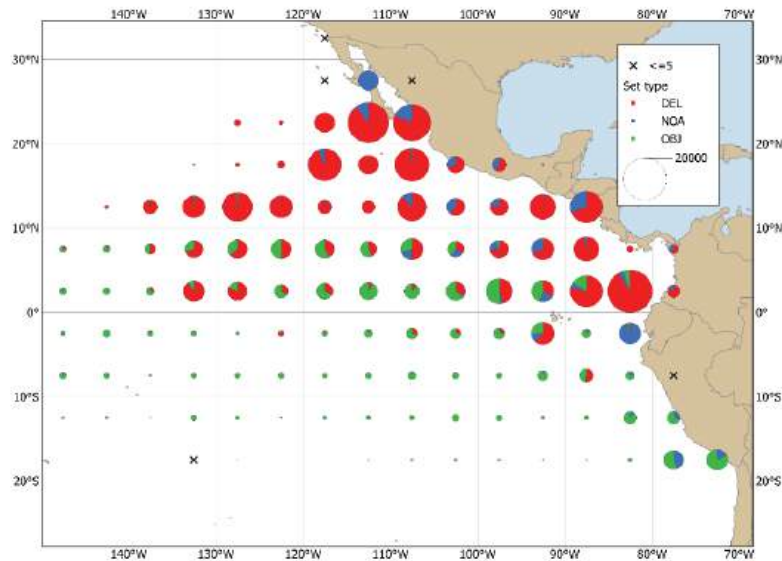
Information on other types of vessels that are authorized to fish in the EPO is available in the IATTC's [Regional Vessel Register](#). In some cases, particularly for large longline vessels, the Register contains information for vessels authorized to fish not only in the EPO, but also in other oceans, and which may not have fished in the EPO during 2024, or ever.

<sup>4</sup> The sum of the percentages may not add up to 100% due to rounding.



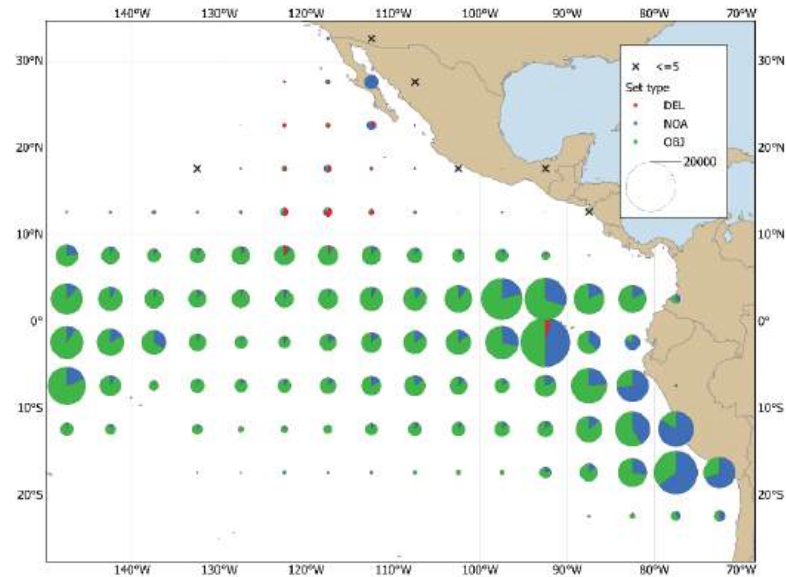
**FIGURE A-1a.** Average annual distributions of the purse-seine catches of yellowfin, by set type, 2014-2023. The sizes of the circles are proportional to the amounts of yellowfin caught in those 5° by 5° areas.

**FIGURA A-1a.** Distribución media anual de las capturas cerqueras de aleta amarilla, por tipo de lance, 2014-2023. El tamaño de cada círculo es proporcional a la cantidad de aleta amarilla capturado en la cuadrícula de 5° x 5° correspondiente.



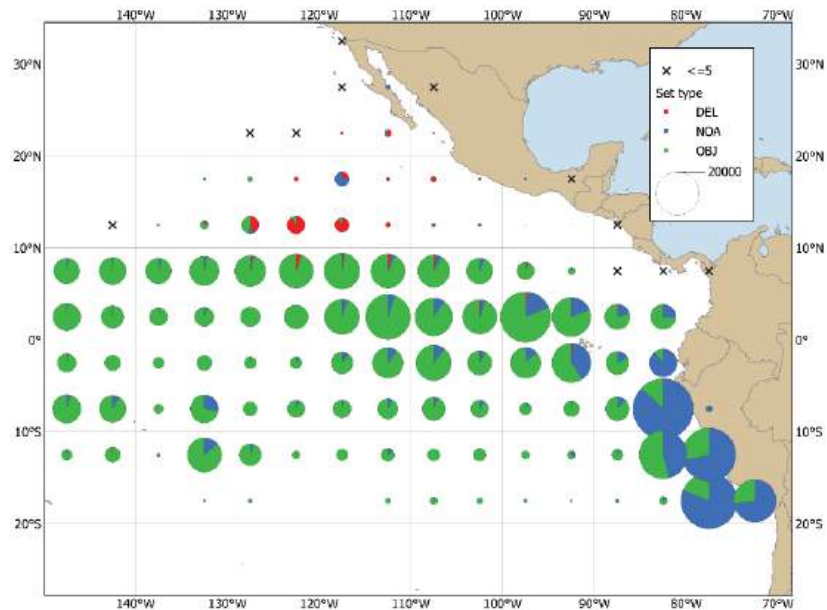
**FIGURE A-1b.** Annual distributions of the purse-seine catches of yellowfin, by set type, 2024. The sizes of the circles are proportional to the amounts of yellowfin caught in those 5° by 5° areas.

**FIGURA A-1b.** Distribución anual de las capturas cerqueras de aleta amarilla, por tipo de lance, 2024. El tamaño de cada círculo es proporcional a la cantidad de aleta amarilla capturado en la cuadrícula de 5° x 5° correspondiente.



**FIGURE A-2a.** Average annual distributions of the purse-seine catches of skipjack, by set type, 2014-2023. The sizes of the circles are proportional to the amounts of skipjack caught in those 5° by 5° areas.

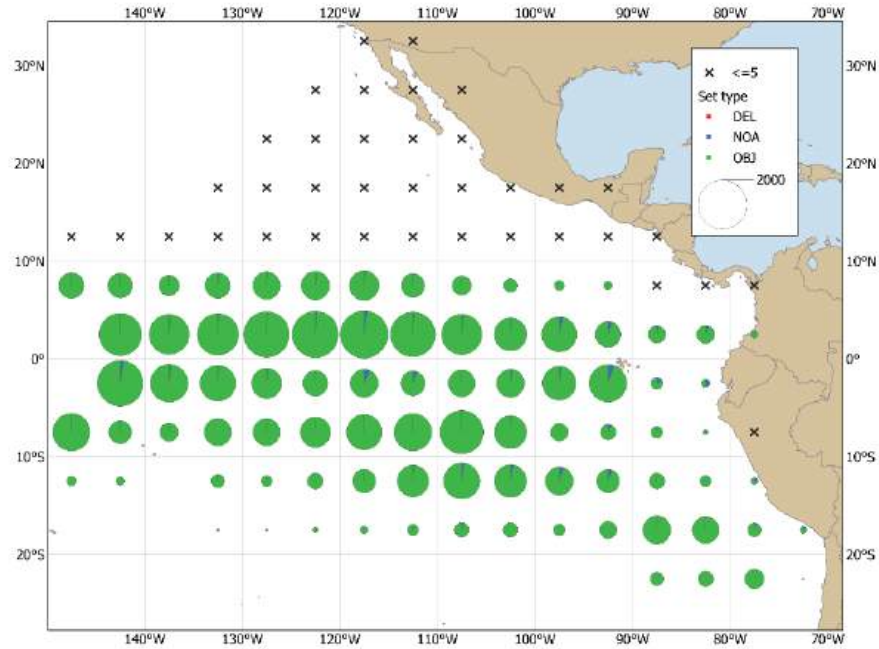
**FIGURA A-2a.** Distribución media anual de las capturas cerqueras de barrilete, por tipo de lance, 2014-2023. El tamaño de cada círculo es proporcional a la cantidad de barrilete capturado en la cuadrícula de 5° x 5° correspondiente.



**FIGURE A-2b.** Annual distributions of the purse-seine catches of skipjack, by set type, 2024. The sizes of the circles are proportional to the amounts of skipjack caught in those 5° by 5° areas.

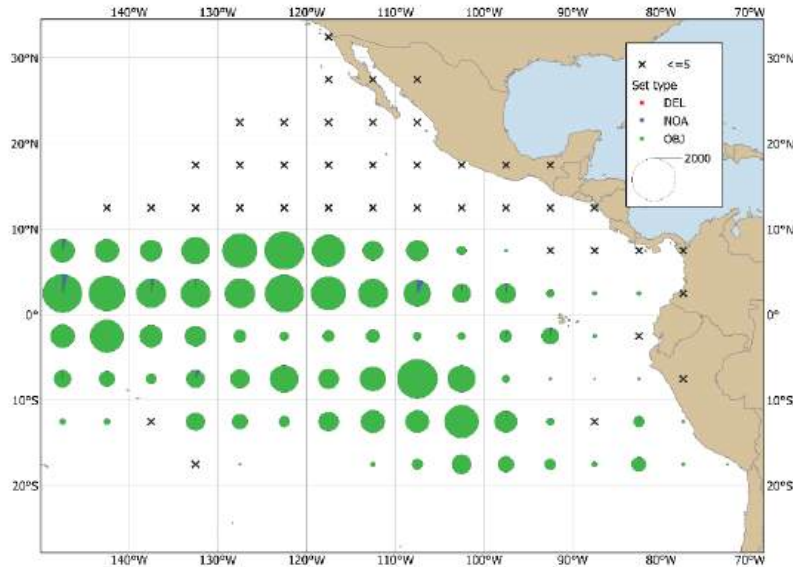
**FIGURA A-2b.** Distribución anual de las capturas cerqueras de barrilete, por tipo de lance, 2024. El tamaño de cada círculo es proporcional a la cantidad de barrilete capturado en la cuadrícula de 5° x 5° correspondiente.





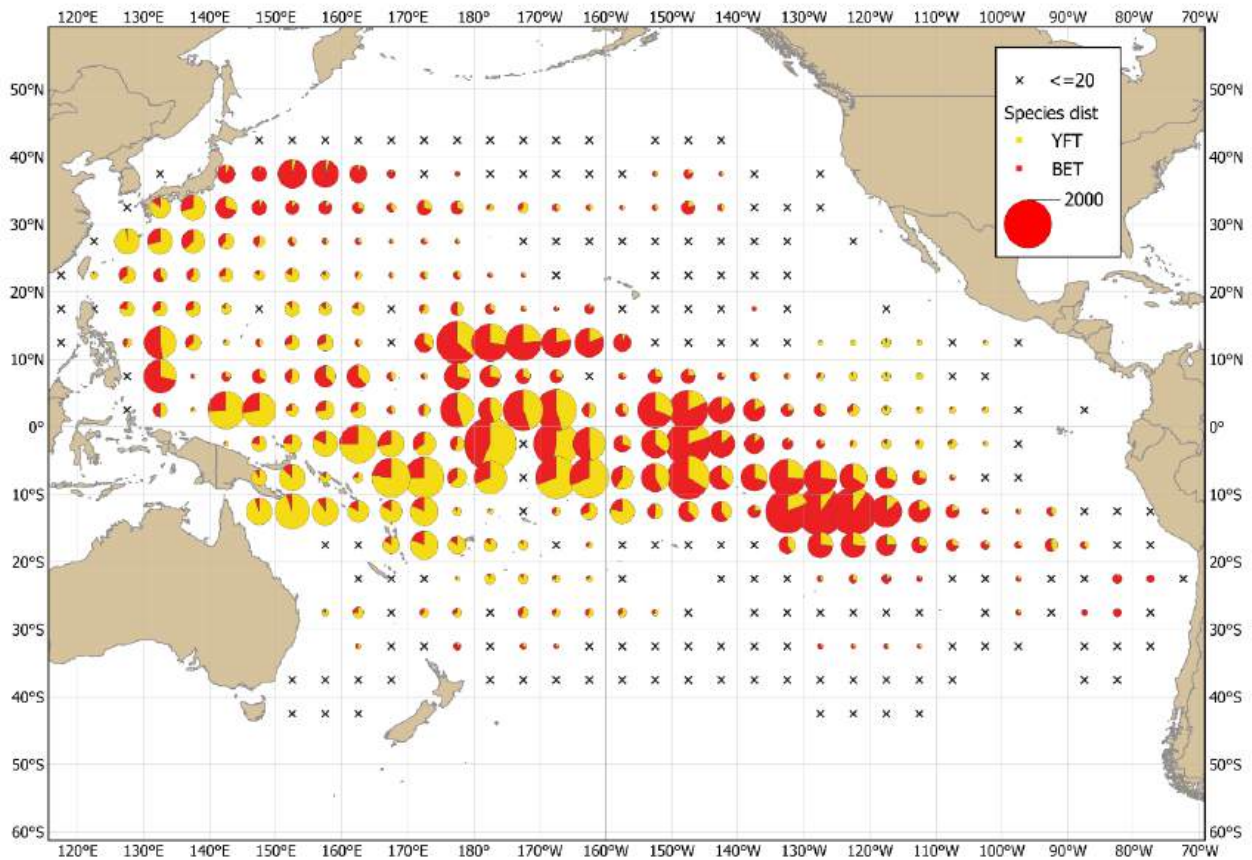
**FIGURE A-3a.** Average annual distributions of the purse-seine catches of bigeye, by set type, 2014-2023. The sizes of the circles are proportional to the amounts of bigeye caught in those 5° by 5° areas.

**FIGURA A-3a.** Distribución media anual de las capturas cerqueras de patudo, por tipo de lance, 2014-2023. El tamaño de cada círculo es proporcional a la cantidad de patudo capturado en la cuadrícula de 5° x 5° correspondiente.



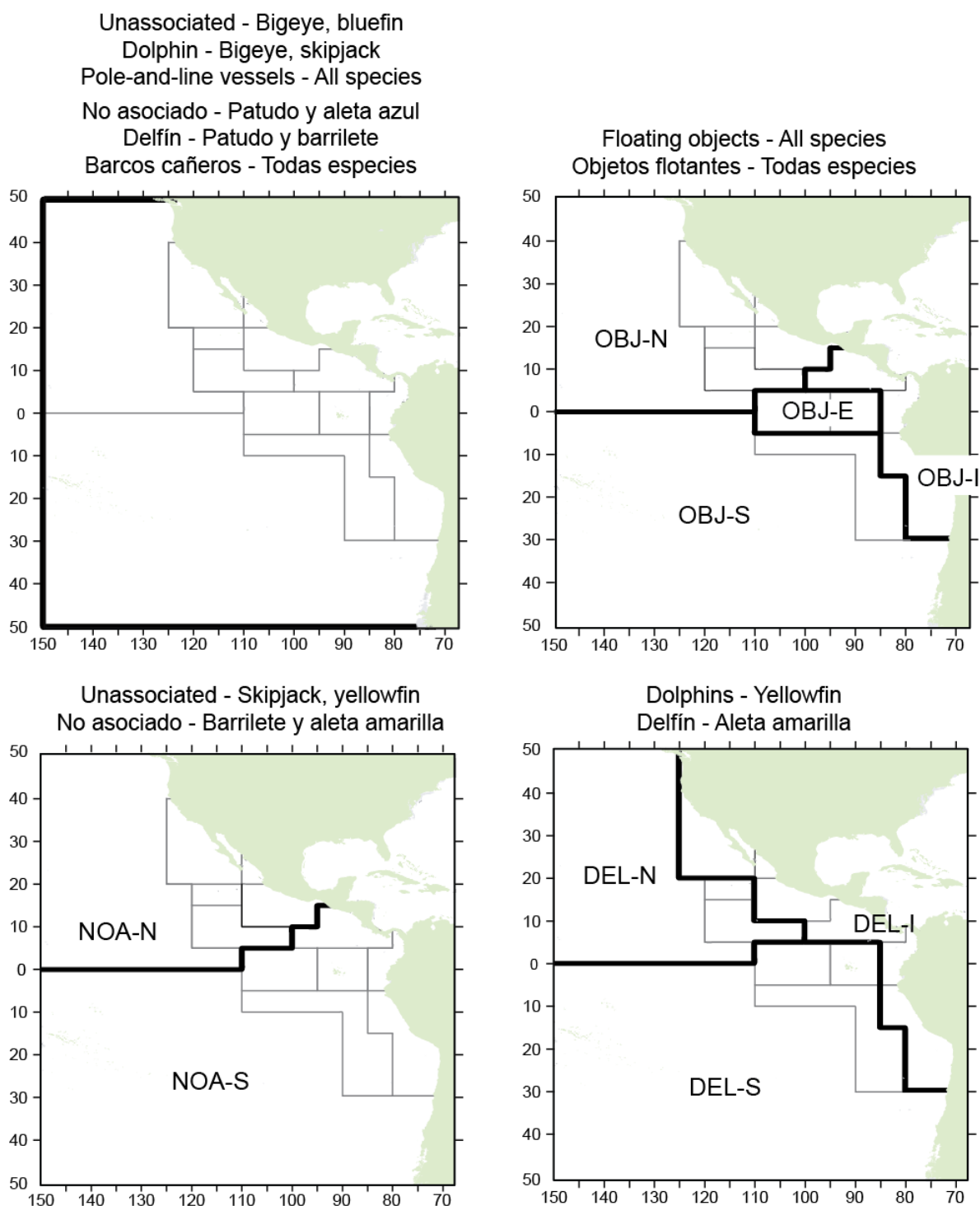
**FIGURE A-3b.** Annual distributions of the purse-seine catches of bigeye, by set type, 2024. The sizes of the circles are proportional to the amounts of bigeye caught in those 5° by 5° areas.

**FIGURA A-3b.** Distribución anual de las capturas cerqueras de patudo, por tipo de lance, 2024. El tamaño de cada círculo es proporcional a la cantidad de patudo capturado en la cuadrícula de 5° x 5° correspondiente.



**FIGURE A-4.** Distributions of the average annual catches of bigeye and yellowfin tunas in the Pacific Ocean, in metric tons, by Chinese, Japanese, Korean, and Chinese Taipei longline vessels, 2019-2023. The sizes of the circles are proportional to the amounts of bigeye and yellowfin caught in those 5° by 5° areas.

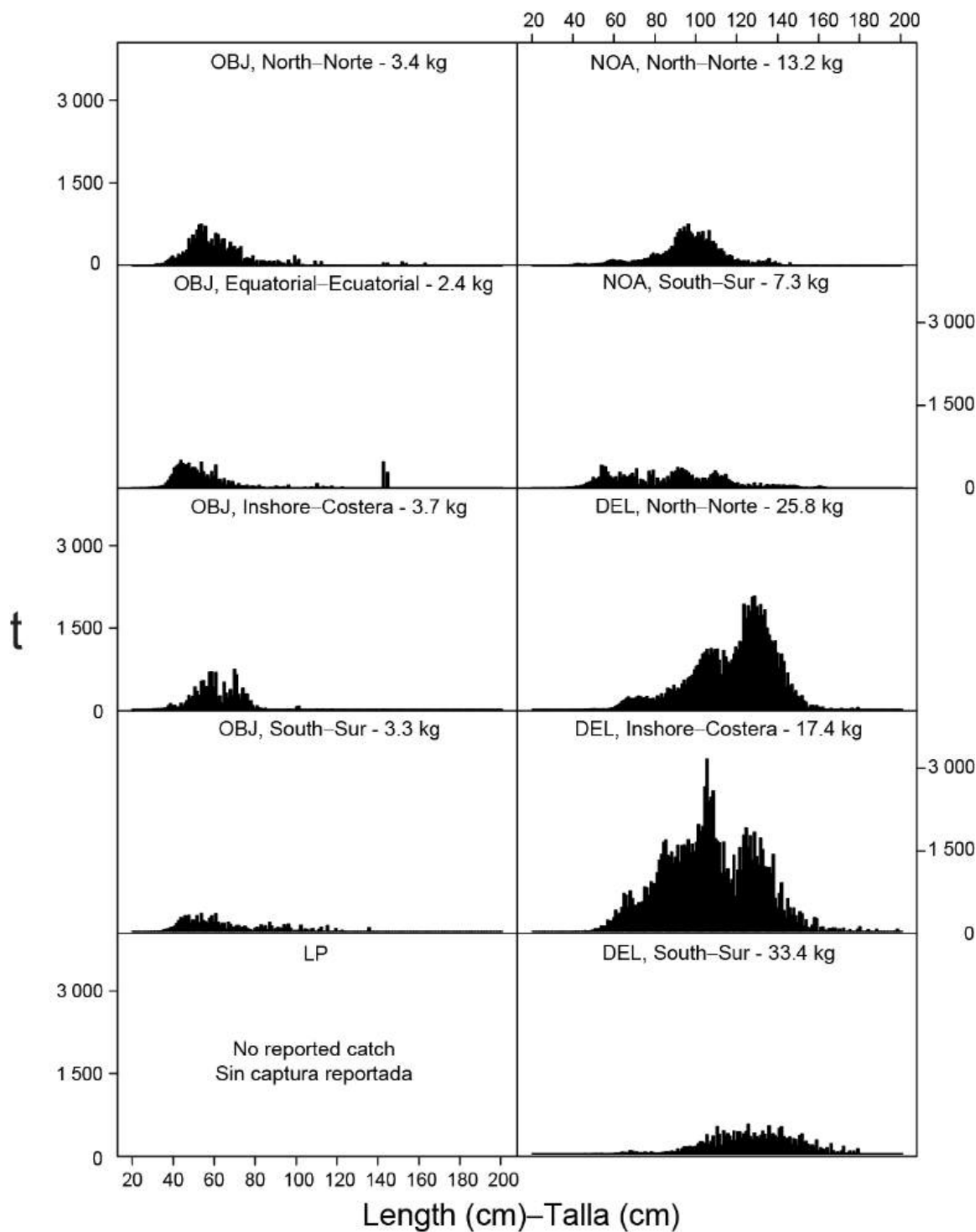
**FIGURA A-4.** Distribución de las capturas anuales medias de atunes patudo y aleta amarilla en el Océano Pacífico, en toneladas métricas, por buques palangreros de China, Corea, Japón, y Taipei Chino, 2019-2023. El tamaño de cada círculo es proporcional a la cantidad de patudo y aleta amarilla capturado en la cuadrícula de 5° x 5° correspondiente.



**FIGURE A-5.** The purse-seine fisheries defined by the IATTC staff for analyses of yellowfin, skipjack, and bigeye in the EPO. The thin lines indicate the boundaries of the 13 length-frequency sampling areas, and the bold lines the boundaries of the fisheries.

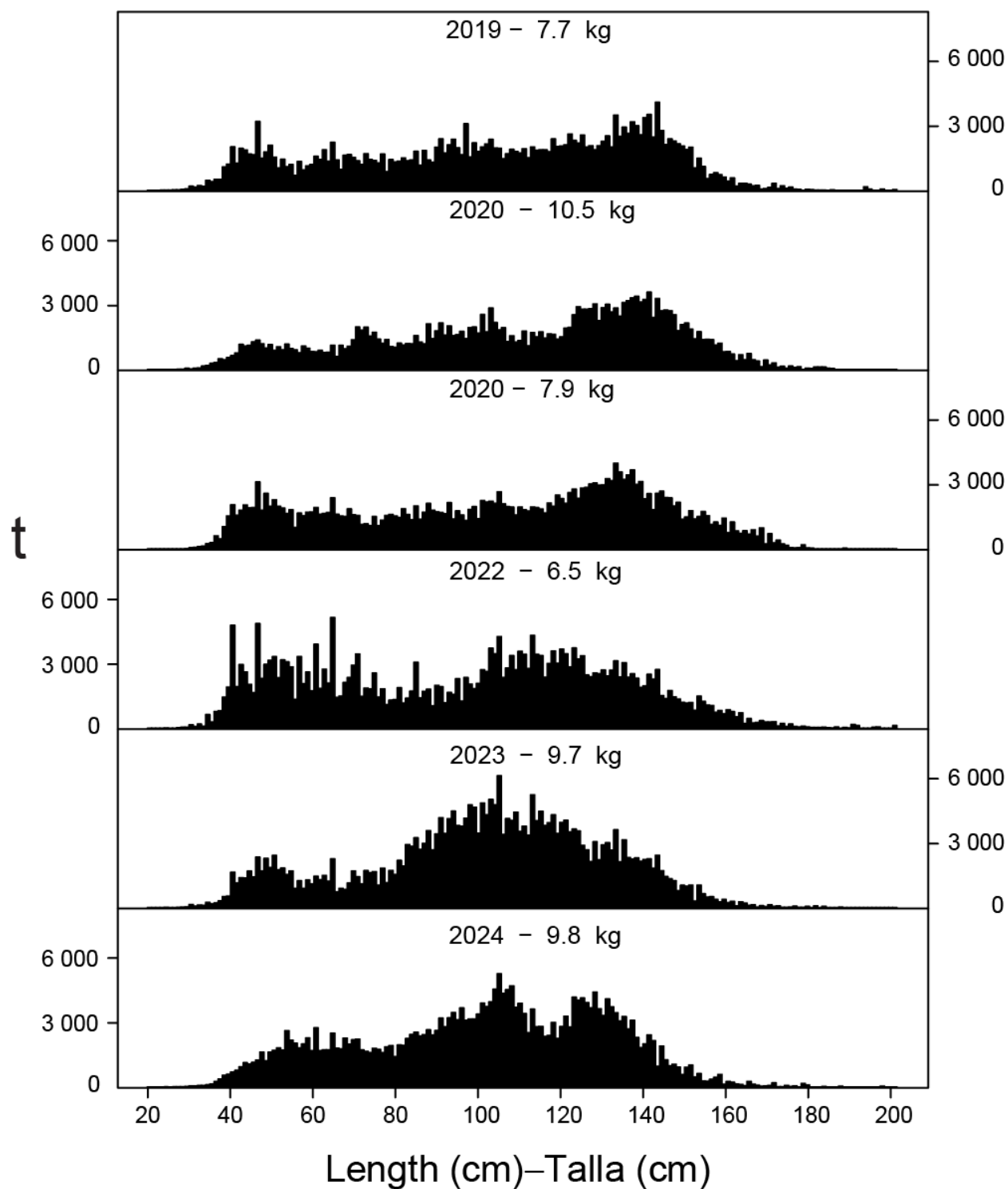
**FIGURA A-5.** Las pesquerías cerqueras definidas por el personal de la CIAT para los análisis de los atunes aleta amarilla, barrilete, y patudo en el OPO. Las líneas delgadas indican los límites de las 13 zonas de muestreo de frecuencia de tallas, y las líneas gruesas los límites de las pesquerías.





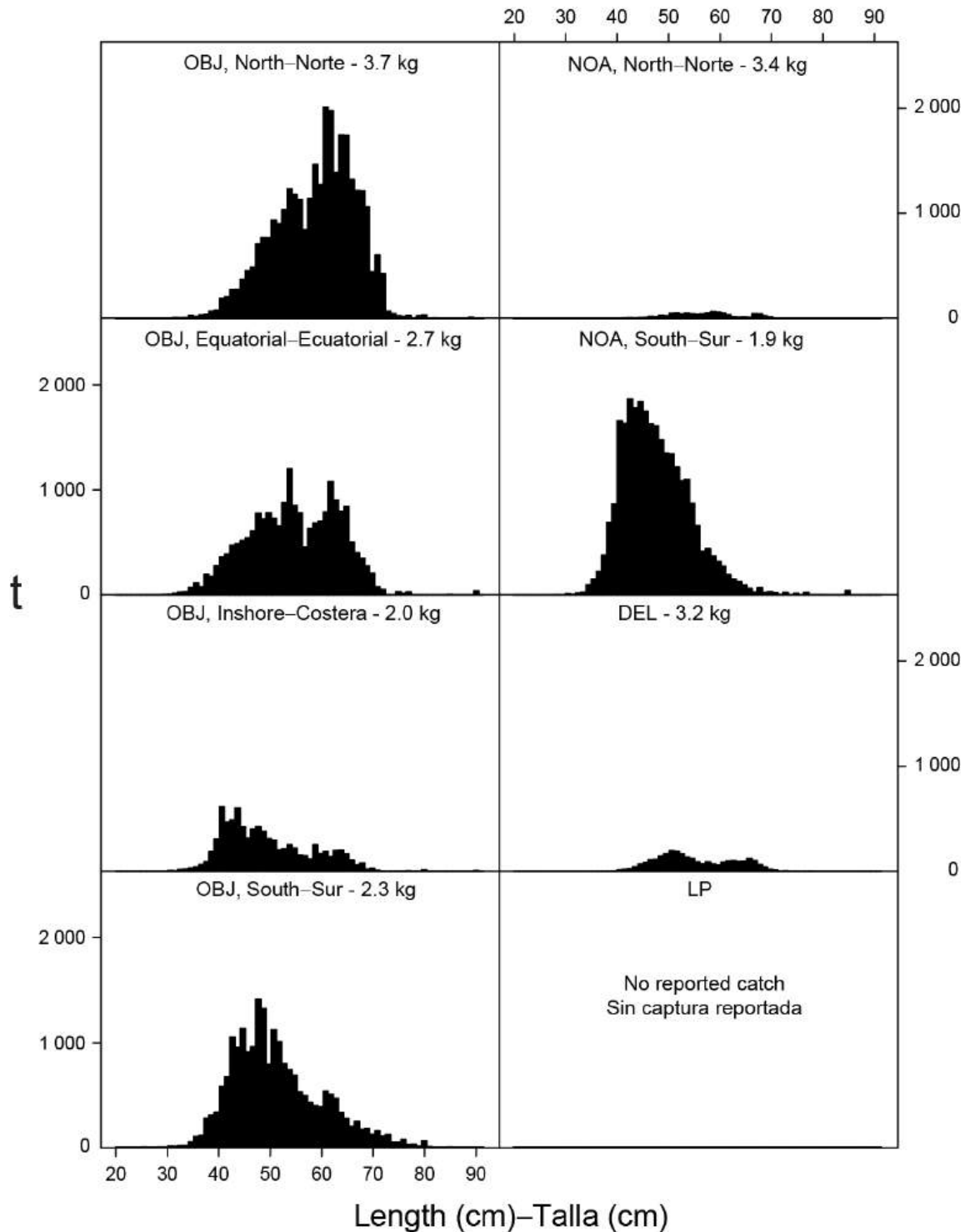
**FIGURE A-6a.** Estimated size compositions of the yellowfin caught in the EPO during 2024 for each fishery designated in Figure A-5. The value at the top of each panel is the average weight of the fish in the samples.

**FIGURA A-6a.** Composición por tallas estimada del aleta amarilla capturado en el OPO durante 2024 en cada pesquería ilustrada en la Figura A-5. El valor en cada recuadro representa el peso promedio del pescado en las muestras.

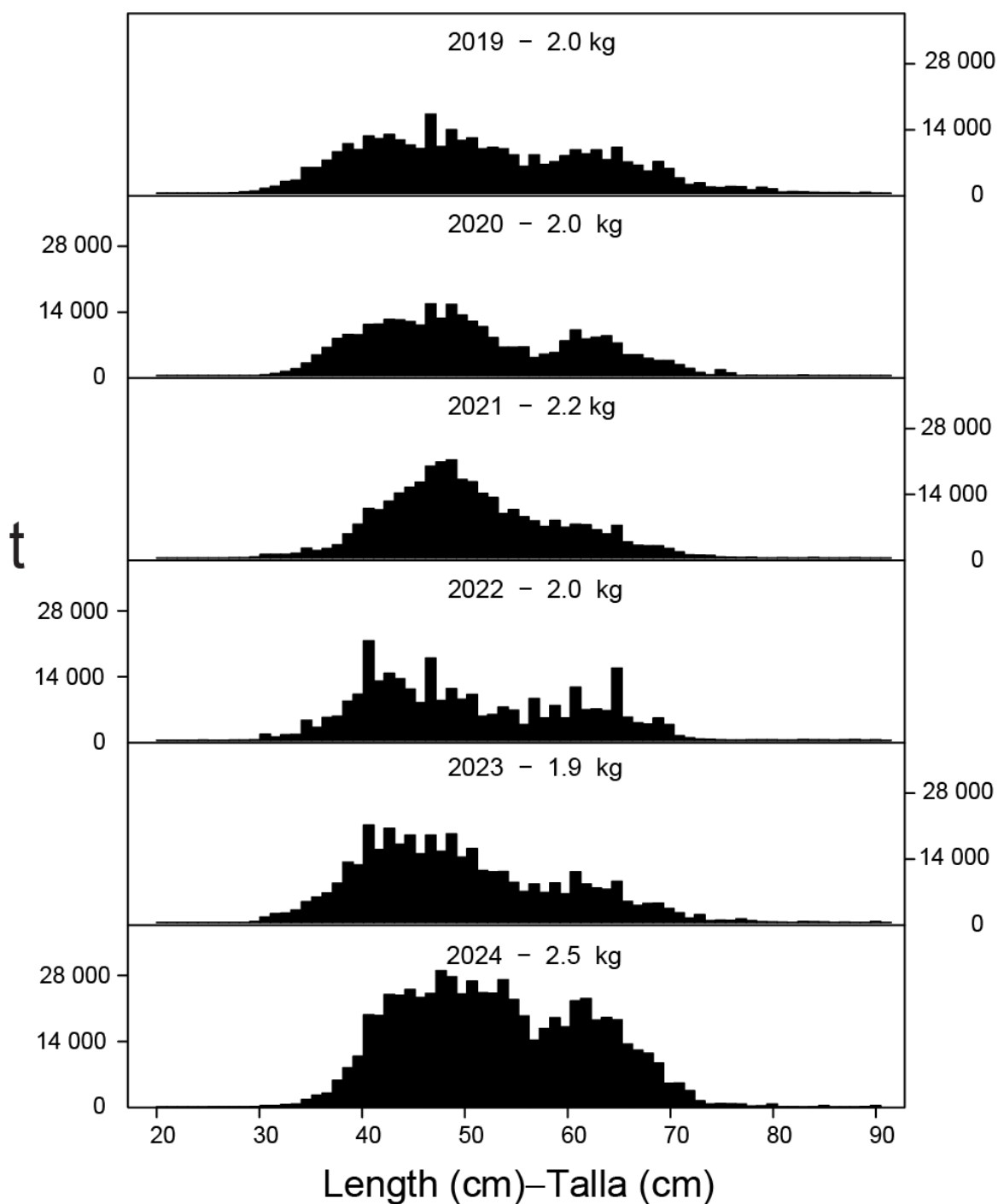


**FIGURE A-6b.** Estimated size compositions of the yellowfin caught by purse-seine and pole-and-line vessels in the EPO during 2019-2024. The value at the top of each panel is the average weight of the fish in the samples.

**FIGURA A-6b.** Composición por tallas estimada del aleta amarilla capturado por buques cerqueros y cañeros en el OPO durante 2019-2024. El valor en cada recuadro representa el peso promedio del pescado en las muestras.

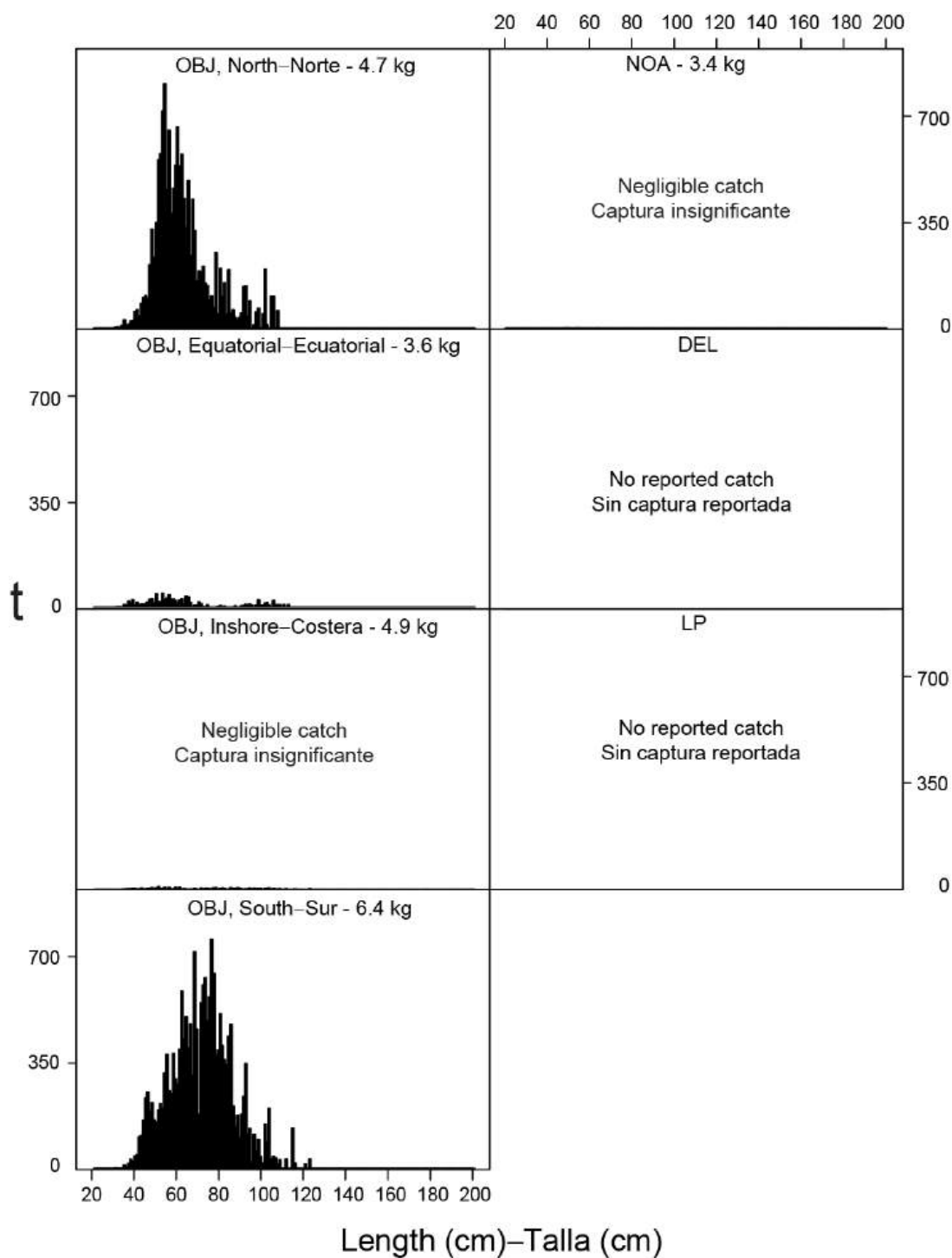


**FIGURE A-7a.** Estimated size compositions of the skipjack caught in the EPO during 2024 for each fishery designated in Figure A-5. The value at the top of each panel is the average weight of the fish in the samples.  
**FIGURA A-7a.** Composición por tallas estimada del barrilete capturado en el OPO durante 2024 en cada pesquería ilustrada en la Figura A-5. El valor en cada recuadro representa el peso promedio del pescado en las muestras.



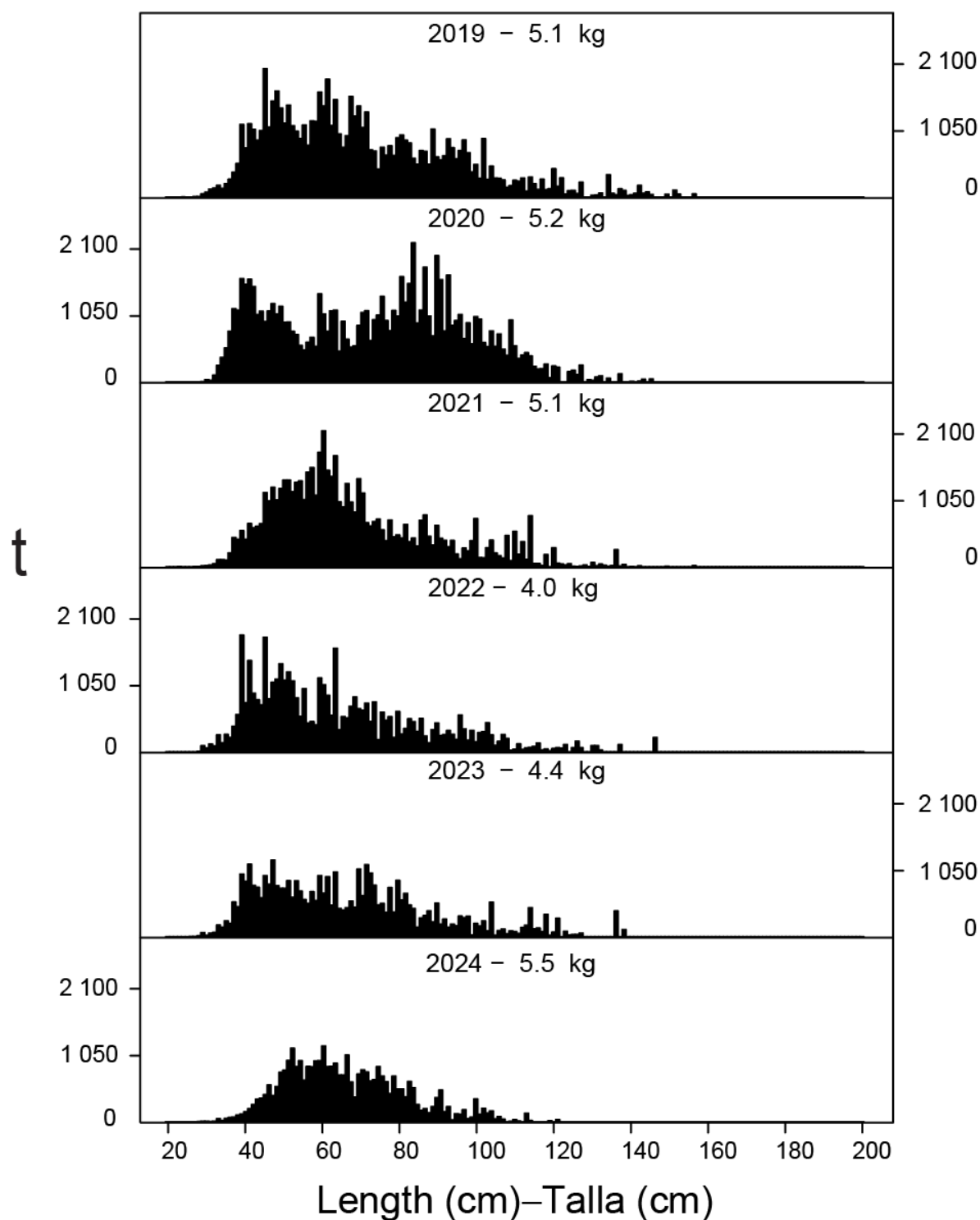
**FIGURE A-7b.** Estimated size compositions of the skipjack caught by purse-seine and pole-and-line vessels in the EPO during 2019-2024. The value at the top of each panel is the average weight of the fish in the samples.

**FIGURA A-7b.** Composición por tallas estimada del barrilete capturado por buques cerqueros y cañeros en el OPO durante 2019-2024. El valor en cada recuadro representa el peso promedio del pescado en las muestras.



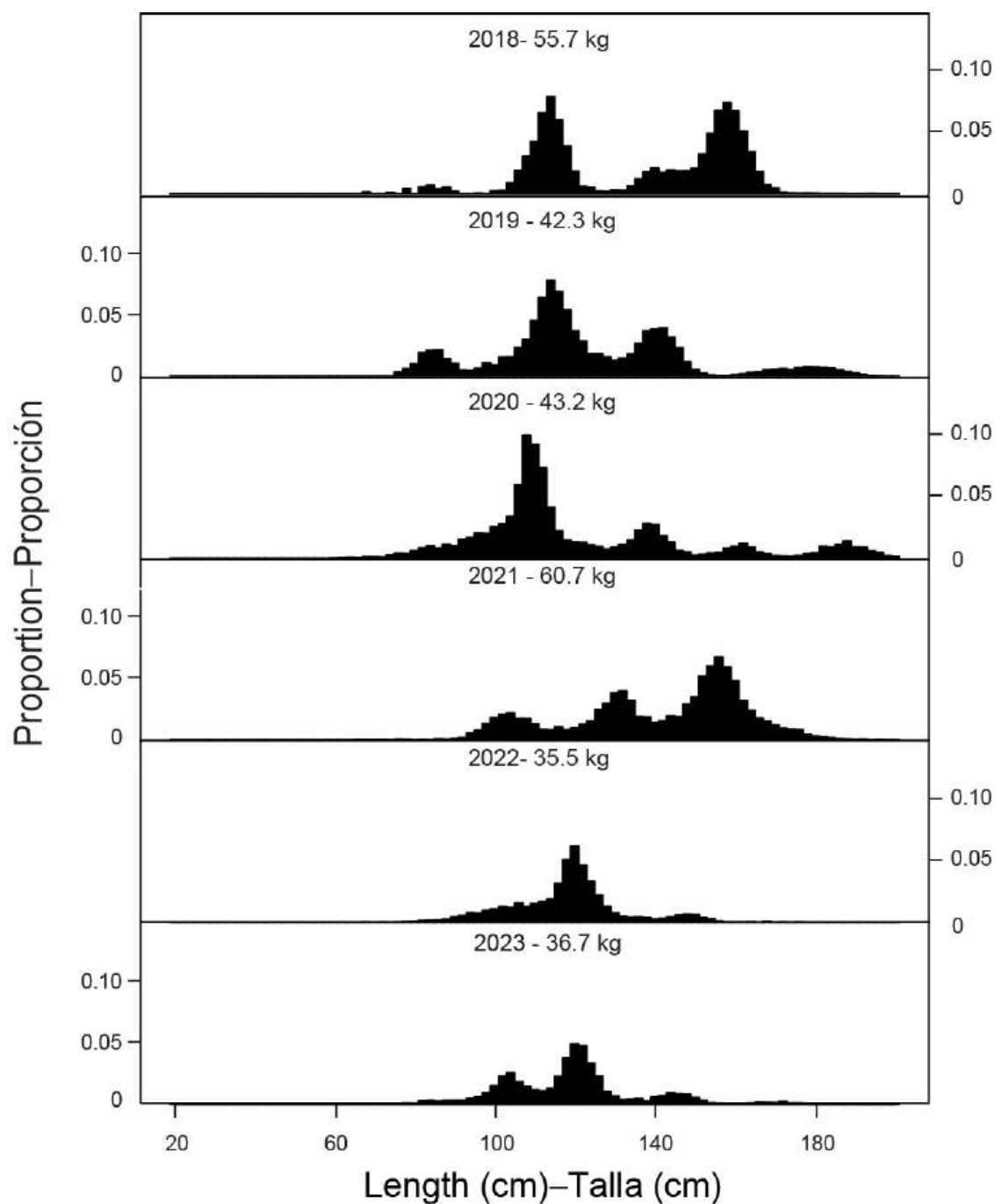
**FIGURE A-8a.** Estimated size compositions of the bigeye caught in the EPO during 2024 for each fishery designated in Figure A-5. The value at the top of each panel is the average weight.

**FIGURA A-8a.** Composición por tallas estimada del patudo capturado en el OPO durante 2024 en cada pesquería ilustrada en la Figura A-5. El valor en cada recuadro representa el peso promedio del pescado en las muestras.



**FIGURE A-8b.** Estimated size compositions of the bigeye caught by purse-seine vessels in the EPO during 2019-2024. The value at the top of each panel is the average weight.

**FIGURA A-8b.** Composición por tallas estimada del patudo capturado por buques cerqueros en el OPO durante 2019-2024. El valor en cada recuadro representa el peso promedio del pescado en las muestras.

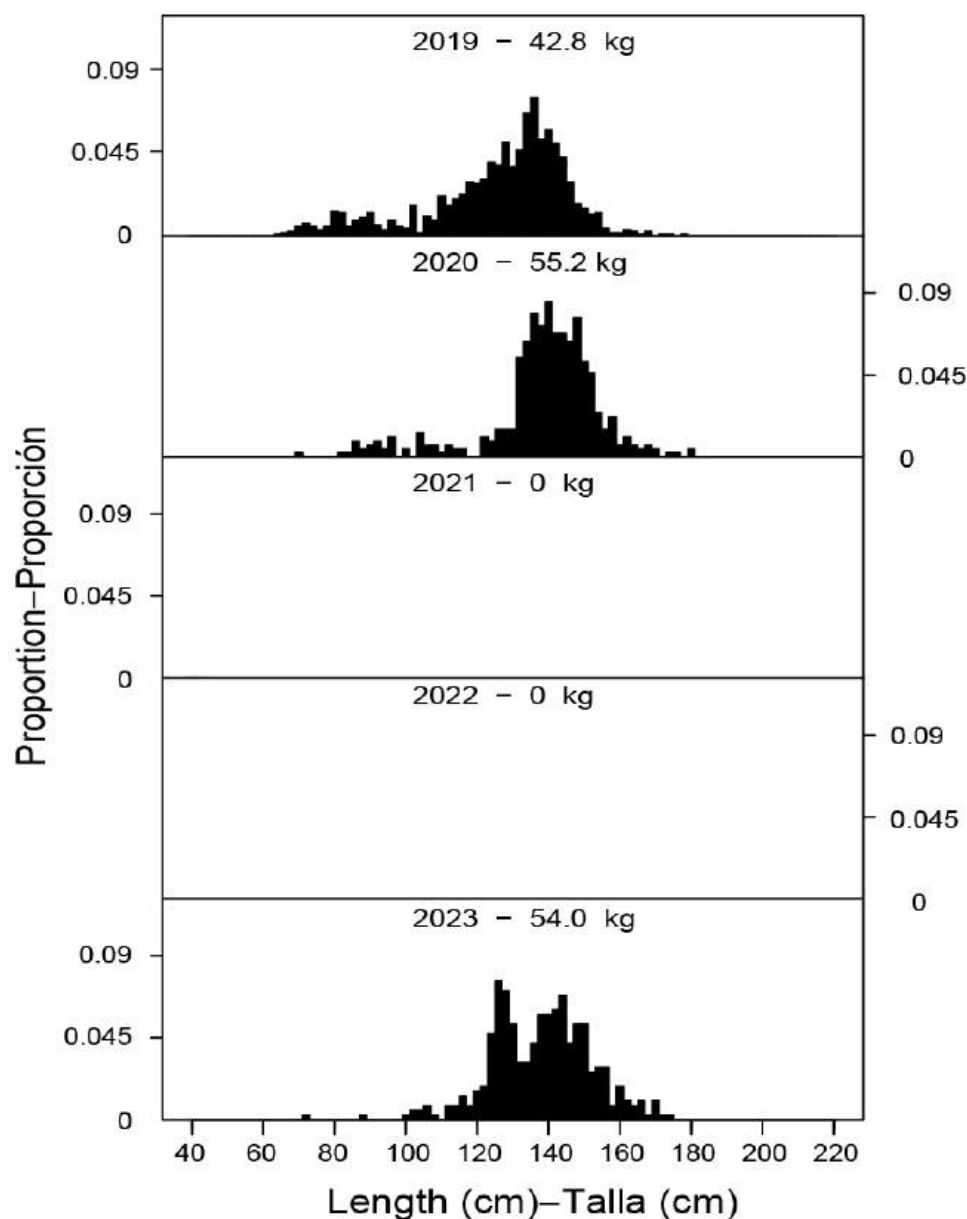


**FIGURE A-9.** Estimated length compositions of purse-seine catches of Pacific bluefin tuna, 2018-2023. The length distribution has been standardized as a proportion of the total number of measured tuna in each length interval. The value at the top of each panel is the average weight.

Source: Mexico's National Observer Program (PNAAPD).

**FIGURA A-9.** Composición por talla estimada de las capturas cerqueras de atún aleta azul del Pacífico, 2018-2023. La distribución de las tallas ha sido estandarizada como proporción del número total de atunes medidos en cada intervalo de talla. El valor en cada recuadro representa el peso promedio.

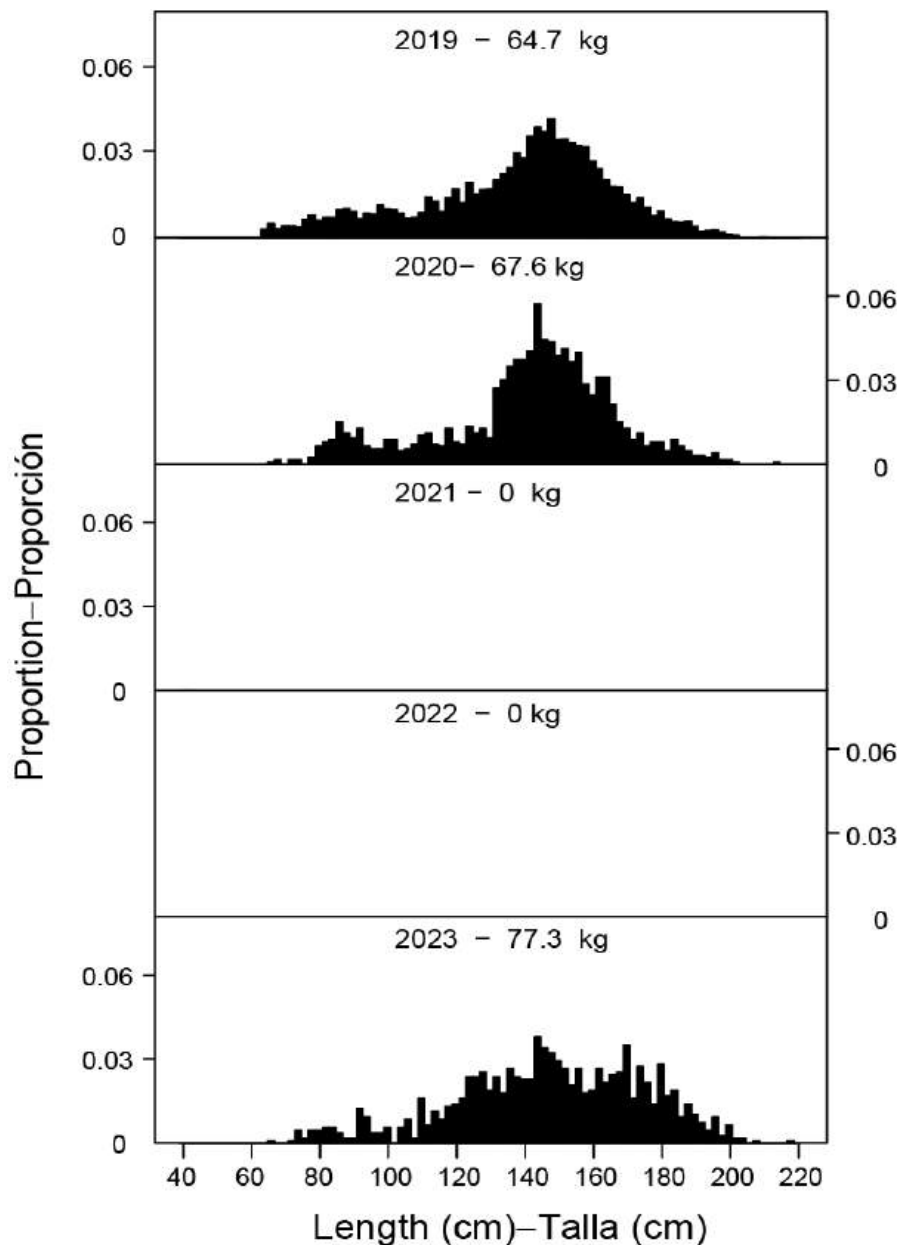
Fuente: Programa Nacional de Observadores de México (PNAAPD).



**FIGURE A-10.** Estimated size compositions of the catches of yellowfin by the Japanese longline fleet in the EPO, 2019-2023. The size distribution has been standardized as a proportion of the total number of measured tunas in each size range. The value at the top of each panel is the average weight. Source: Fisheries Agency of Japan. [Size composition data for 2021 and 2022 was not available due to difficulties resulting from the COVID-19 pandemic, which impacted the collection and analysis of 2021 and 2022 YFT size data.]

**FIGURA A-10.** Composición por tallas estimada de las capturas de aleta amarilla por la flota palangrera japonesa en el OPO, 2019-2023. La distribución de las tallas ha sido estandarizada como proporción del número total de atunes medidos en cada gama de tallas. El valor en cada recuadro representa el peso promedio. Fuente: Agencia Pesquera de Japón. [Los datos de composición por talla de 2021 y 2022 no estaban disponibles debido a las dificultades derivadas de la pandemia de COVID-19, que afectaron la recolección y el análisis de los datos de talla de YFT de 2021 y 2022.]





**FIGURE A-11.** Estimated size compositions of the catches of bigeye by the Japanese longline fleet in the EPO, 2019-2023. The size distribution has been standardized as a proportion of the total number of measured tunas in each size range. The value at the top of each panel is the average weight. Source: Fisheries Agency of Japan. [Size composition data for 2021 and 2022 was not available due to difficulties resulting from the COVID-19 pandemic, which impacted the collection and analysis of 2021 and 2022 BET size data.]

**FIGURA A-11.** Composición por tallas estimada de las capturas de patudo por la flota palangrera japonesa en el OPO, 2019-2023. La distribución de las tallas ha sido estandarizada como proporción del número total de atunes medidos en cada gama de tallas. El valor en cada recuadro representa el peso promedio. Fuente: Agencia Pesquera de Japón. [Los datos de composición por talla de 2021 y 2022 no estaban disponibles debido a las dificultades derivadas de la pandemia de COVID-19, que afectaron la recolección y el análisis de los datos de talla de BET de 2021 y 2022.]

**TABLE A-1.** Total annual catches (t) of yellowfin, skipjack, and bigeye tunas, by all types of gear combined, in the Pacific Ocean. The EPO totals for 1995-2024 include discards from purse-seine vessels with carrying capacities greater than 363 t.

**TABLA A-1.** Capturas totales anuales (t) de atunes aleta amarilla, barrilete, y patudo, por todas las artes combinadas, en el Océano Pacífico. Los totales del OPO de 1995-2024 incluyen los descartes de buques cerqueros de más de 363 t de capacidad de acarreo.

	YFT			SKJ			BET			Total		
	EPO	WCPO	Total	EPO	WCPO	Total	EPO	WCPO	Total	EPO	WCPO	Total
1995	244,639	442,805	687,444	150,661	977,478	1,128,139	108,210	110,385	218,595	503,510	1,530,668	2,034,178
1996	266,928	425,669	692,597	132,335	999,701	1,132,036	114,706	107,168	221,874	513,969	1,532,538	2,046,507
1997	277,575	481,019	758,594	188,285	939,497	1,127,782	122,274	133,495	255,769	588,134	1,554,011	2,142,145
1998	280,606	536,845	817,451	165,489	1,244,132	1,409,621	93,954	152,415	246,369	540,049	1,933,392	2,473,441
1999	304,638	474,648	779,286	291,249	1,070,280	1,361,529	93,078	162,524	255,602	688,965	1,707,452	2,396,417
2000	286,863	506,028	792,891	230,479	1,194,139	1,424,618	148,557	148,094	296,651	665,899	1,848,261	2,514,160
2001	425,008	504,501	929,509	157,676	1,100,714	1,258,390	130,546	134,459	265,005	713,230	1,739,674	2,452,904
2002	443,458	489,995	933,453	167,048	1,253,634	1,420,682	132,806	157,958	290,764	743,312	1,901,587	2,644,899
2003	415,933	563,926	979,859	300,470	1,245,155	1,545,625	115,175	143,471	258,646	831,578	1,952,552	2,784,130
2004	296,847	595,888	892,735	217,249	1,354,765	1,572,014	110,722	182,599	293,321	624,818	2,133,252	2,758,070
2005	286,492	551,822	838,314	283,453	1,418,105	1,701,558	110,514	154,748	265,262	680,459	2,124,675	2,805,134
2006	180,519	537,076	717,595	309,090	1,479,366	1,788,456	117,328	165,386	282,714	606,937	2,181,828	2,788,765
2007	182,141	565,930	748,071	216,324	1,663,353	1,879,677	94,260	165,365	259,625	492,725	2,394,648	2,887,373
2008	197,328	644,365	841,693	307,699	1,649,067	1,956,766	103,350	171,317	274,667	608,377	2,464,749	3,073,126
2009	250,413	558,914	809,327	239,408	1,761,272	2,000,680	109,255	169,294	278,549	599,076	2,489,480	3,088,556
2010	261,871	564,607	826,478	153,092	1,680,215	1,833,307	95,408	139,796	235,204	510,371	2,384,618	2,894,989
2011	216,720	530,946	747,666	283,509	1,536,806	1,820,315	89,460	168,119	257,579	589,689	2,235,871	2,825,560
2012	213,310	625,697	839,007	273,519	1,731,944	2,005,463	102,687	167,245	269,932	589,516	2,524,886	3,114,402
2013	231,170	578,467	809,637	284,043	1,831,413	2,115,456	86,029	154,783	240,812	601,242	2,564,663	3,165,905
2014	246,784	618,262	865,046	265,490	1,985,110	2,250,600	96,054	169,046	265,100	608,328	2,772,418	3,380,746
2015	260,265	589,128	849,393	334,049	1,788,545	2,122,594	104,820	145,709	250,529	699,134	2,523,382	3,222,516
2016	255,465	660,291	915,756	345,163	1,788,760	2,133,923	92,952	156,656	249,608	693,580	2,605,707	3,299,287
2017	224,800	710,202	935,002	327,629	1,609,970	1,937,599	102,860	130,595	233,455	655,289	2,450,767	3,106,056
2018	253,305	696,706	950,011	291,352	1,843,398	2,134,750	94,479	154,404	248,883	639,136	2,694,508	3,333,644
2019	242,248	682,704	924,952	350,992	2,044,477	2,395,469	97,145	131,808	228,953	690,385	2,858,989	3,549,374
2020	231,603	726,403	958,006	298,583	1,721,476	2,020,059	104,893	146,497	251,390	635,079	2,594,376	3,229,455
2021	263,755	747,354	1,011,109	328,616	1,684,029	2,012,645	79,953	132,915	212,868	672,324	2,564,298	3,236,622
2022	298,897	689,051	987,948	298,136	1,715,934	2,014,070	68,217	140,838	209,055	665,250	2,545,823	3,211,073
2023	306,170	739,277	1,045,447	390,549	1,631,322	2,021,871	67,233	140,673	207,906	763,952	2,511,272	3,275,224
2024	294,493	*	294,493	645,260	*	645,260	51,936	*	51,936	991,689	*	991,689

**TABLE A-2a.** Estimated catches, in metric tons, of tunas and bonitos in the EPO, by fishing gear, 1995-2024. For purse-seine (PS) vessels, retained (Ret.) catches include all vessels; discard (Dis.) data are for Class-6 vessels only. 'C' indicates that the catch has been combined with the total in the 'OTR' column. The purse-seine and pole-and-line (LP) data for yellowfin, skipjack, and bigeye tunas have been adjusted to the species composition estimate, and are preliminary. The data for 2021-2024 are preliminary.

**TABLA A-2a.** Capturas estimadas, en toneladas métricas, de atunes y bonitos en el OPO, por arte de pesca, 1995-2024. En el caso de los buques de cerco (PS), las capturas retenidas (Ret) incluyen todos los buques; los datos de descartes (Dis.) son de buques de Clase 6 únicamente. 'C' indica que la captura se ha combinado con el total en la columna 'OTR'. Los datos de los atunes aleta amarilla, barrilete, y patudo de las pesquerías de cerco y de caña (LP) fueron ajustados a la estimación de composición por especies, y son preliminares. Los datos de 2021-2024 son preliminares.

	Yellowfin—Aleta amarilla						Skipjack—Barrilete						Bigeye—Patudo					
	PS		LP	LL	OTR + UNK	Total	PS		LP	LL	OTR + UNK	Total	PS		LP	LL	OTR + UNK	Total
	Ret.	Dis. <sup>§</sup>					Ret.	Dis. <sup>§</sup>					Ret.	Dis. <sup>§</sup>				
1995	215,434	5,275	1,268	20,596	2,066	244,639	127,047	16,373	5,253	77	1,911	150,661	45,321	3,251	-	58,269	1,369	108,210
1996	238,607	6,312	3,762	16,608	1,639	266,928	103,973	24,494	2,555	52	1,261	132,335	61,311	5,689	-	46,958	748	114,706
1997	244,878	5,516	4,418	22,163	600	277,575	153,456	31,338	3,260	135	96	188,285	64,272	5,402	-	52,580	20	122,274
1998	253,959	4,697	5,085	15,336	1,529	280,606	140,631	22,643	1,684	294	237	165,489	44,129	2,822	-	46,375	628	93,954
1999	281,920	6,547	1,783	11,682	2,706	304,638	261,565	26,046	2,044	201	1,393	291,249	51,158	4,932	-	36,450	538	93,078
2000	253,263	6,205	2,431	23,855	1,109	286,863	205,647	24,467	231	68	66	230,479	95,282	5,417	-	47,605	253	148,557
2001	383,936	7,028	3,916	29,608	520	425,008	143,165	12,815	448	1,214	34	157,676	60,518	1,254	-	68,755	19	130,546
2002	412,286	4,140	950	25,531	551	443,458	153,546	12,506	616	261	119	167,048	57,421	949	-	74,424	12	132,806
2003	383,279	5,865	470	25,174	1,145	415,933	273,968	22,453	638	634	2,777	300,470	53,052	2,326	-	59,776	21	115,175
2004	272,557	3,000	1,884	18,779	627	296,847	197,824	17,078	528	713	1,106	217,249	65,471	1,574	-	43,483	194	110,722
2005	268,101	2,771	1,822	11,946	1,852	286,492	263,229	16,915	1,299	231	1,779	283,453	67,895	1,900	-	40,694	25	110,514
2006	166,631	1,534	686	10,210	1,458	180,519	296,268	11,177	435	224	986	309,090	83,838	1,680	-	31,770	40	117,328
2007	170,016	1,725	894	8,067	1,439	182,141	208,295	6,450	276	238	1,065	216,324	63,450	890	-	29,876	44	94,260
2008	185,057	696	814	9,820	941	197,328	296,603	8,249	499	1,185	1,163	307,699	75,028	2,086	-	26,208	28	103,350
2009	236,757	1,262	709	10,444	1,241	250,413	230,523	6,064	151	1,584	1,086	239,408	76,799	1,019	-	31,422	15	109,255
2010	251,009	1,031	460	8,339	1,032	261,871	147,192	2,769	47	1,815	1,269	153,092	57,752	564	-	37,090	2	95,408
2011	206,851	415	276	8,048	1,130	216,720	276,035	5,215	24	1,384	851	283,509	56,512	631	-	32,317	-	89,460
2012	198,017	451	400	12,954	1,488	213,310	266,215	3,511	303	2,381	1,109	273,519	66,020	473	-	36,167	27	102,687
2013	218,187	207	759	10,783	1,234	231,170	278,560	2,254	164	2,024	1,041	284,043	49,487	273	-	36,170	99	86,029
2014	234,066	517	C	8,649	3,552	246,784	261,469	2,596	C	194	1,231	265,490	60,445	83	-	35,356	170	96,054
2015	245,727	334	C	10,622	3,582	260,265	328,907	3,699	C	187	1,256	334,049	62,913	177	-	41,709	21	104,820
2016	242,118	404	C	9,801	3,142	255,465	337,561	4,086	-	214	3,302	345,163	56,731	541	-	35,656	24	92,952
2017	210,980	412	C	10,647	2,761	224,800	324,759	1,765	C	185	920	327,629	66,973	201	-	35,650	36	102,860
2018	238,981	231	C	12,576	1,517	253,305	288,821	865	C	1,221	445	291,352	64,523	145	C	29,787	24	94,479
2019	228,313	578	C	11,921	1,436	242,248	347,405	2,851	C	263	473	350,992	69,223	117	-	27,787	18	97,145
2020	218,747	148	C	11,584	1,124	231,603	295,961	1,787	C	269	566	298,583	78,784	106	-	25,959	44	104,893
2021	253,415	246	C	9,390	704	263,755	326,524	1,824	C	225	43	328,616	58,170	69	C	21,705	9	79,953
2022	291,661	332	C	6,757	147	298,897	296,791	1,058	C	201	86	298,136	46,974	50	C	21,106	87	68,217
2023	297,980	379	C	7,187	624	306,170	388,884	1,323	C	212	130	390,549	42,366	92	C	24,601	174	67,233
2024	293,770	723	*	*	*	294,493	640,670	4,590	*	*	*	645,260	34,058	238	*	17,640	*	51,936

<sup>§</sup> Class-6 (carrying capacity >363 t) purse-seine vessels only-Buques cerqueros de Clase 6 (capacidad de acarreo >363 t) solamente

TABLE A-2a. (continued)

TABLA A-2a. (continuación)

	Pacific bluefin—Aleta azul del Pacífico						Albacore—Albacora						Black skipjack—Barrilete negro					
	PS		LP	LL	OTR + UNK	Total	PS		LP	LL	OTR + UNK	Total	PS		LP	LL	OTR + UNK	Total
	Ret.	Dis. <sup>§</sup>					Ret.	Dis. <sup>§</sup>					Ret.	Dis. <sup>§</sup>				
1995	659	-	-	25	264	948	-	-	465	6,185	7,427	14,077	202	1,448	-	-	-	1,650
1996	8,333	-	-	19	83	8,435	11	-	72	7,631	8,398	16,112	704	2,304	-	12	-	3,020
1997	2,608	3	2	14	235	2,862	1	-	59	9,678	7,540	17,278	100	2,512	-	11	-	2,623
1998	1,772	-	-	95	516	2,383	42	-	81	12,635	13,158	25,916	489	1,876	39	-	-	2,404
1999	2,553	54	5	151	514	3,277	47	-	227	11,633	14,510	26,417	171	3,404	-	-	-	3,575
2000	3,712	-	61	46	349	4,168	71	-	86	9,663	13,453	23,273	294	1,995	-	-	-	2,289
2001	1,155	3	1	148	378	1,685	3	-	157	19,410	13,727	33,297	2,258	1,019	-	-	-	3,277
2002	1,758	1	3	71	620	2,453	31	-	381	15,289	14,433	30,134	1,459	2,283	8	-	-	3,750
2003	3,233	-	3	87	369	3,692	34	-	59	24,901	20,397	45,391	433	1,535	6	13	117	2,104
2004	8,880	19	-	15	59	8,973	105	-	126	18,444	22,011	40,686	884	387	-	27	862	2,160
2005	4,743	15	-	-	80	4,838	2	-	66	9,350	15,668	25,086	1,472	2,124	-	-	22	3,618
2006	9,928	-	-	-	93	10,021	109	-	1	13,831	18,980	32,921	1,999	1,972	-	-	-	3,971
2007	4,189	-	-	-	14	4,203	187	-	21	11,107	19,261	30,576	2,307	1,625	-	2	54	3,988
2008	4,392	14	15	-	63	4,484	49	-	1,050	9,218	16,505	26,822	3,624	2,251	-	-	8	5,883
2009	3,428	24	-	-	161	3,613	50	2	-	12,072	19,090	31,214	4,256	1,020	-	2	-	5,278
2010	7,746	-	-	3	89	7,838	25	-	-	14,256	19,363	33,644	3,425	1,079	-	8	184	4,696
2011	2,829	4	-	1	244	3,078	10	-	-	16,191	16,074	32,275	2,317	719	-	6	-	3,042
2012	6,705	-	-	1	405	7,111	-	-	-	24,198	18,100	42,298	4,504	440	-	5	7	4,956
2013	3,154	-	-	1	819	3,974	-	-	-	25,396	18,513	43,909	3,580	805	-	10	24	4,419
2014	5,263	66	C	1	427	5,757	-	-	-	29,231	19,463	48,694	4,153	486	-	11	81	4,731
2015	3,168	-	C	7	412	3,587	-	-	-	28,939	17,142	46,081	3,763	356	-	1	111	4,231
2016	3,025	-	C	0	728	3,753	2	-	-	26,777	14,567	41,346	6,606	792	-	-	178	7,576
2017	4,109	-	C	3	482	4,594	-	-	-	26,592	9,442	36,034	5,079	306	C	-	54	5,439
2018	2,852	-	C	0	588	3,440	8	-	-	25,759	11,138	36,905	3,002	732	C	-	120	3,854
2019	2,475	-	C	0	530	3,005	-	-	-	20,814	11,876	32,690	5,199	499	C	-	132	5,830
2020	3,383	19	C	1	857	4,260	-	-	-	19,983	10,338	30,321	4,573	684	C	-	363	5,620
2021	3,069	0	C	0	1,466	4,535	-	-	-	31,439	6,962	38,401	4,699	472	C	109	129	5,409
2022	3,392	7	C	2	1,749	5,150	76	0	-	31,809	12,758	44,643	6,453	591	C	-	9	7,053
2023	3,402	1	C	2	2,068	5,473	0	0	-	29,789	4,901	34,690	5,456	345	C	1	25	5,827
2024	3,531	18	*	*	*	3,549	1	0	-	*	*	1	6,647	811	*	*	*	7,458

<sup>§</sup> Class-6 (carrying capacity >363 t) purse-seine vessels only-Buques cerqueros de Clase 6 (capacidad de acarreo >363 t) solamente

TABLE A-2a. (continued)

TABLA A-2a. (continuación)

	Bonitos						Unidentified tunas— Atunes no identificados						Total					
	PS		LP	LL	OTR + UNK	Total	PS		LP	LL	OTR + UNK	Total	PS		LP	LL	OTR + UNK	Total
	Ret.	Dis. <sup>§</sup>					Ret.	Dis. <sup>§</sup>					Ret.	Dis. <sup>§</sup>				
1995	7,929	55	81	-	54	8,119	11	626	-	-	1,004	1,641	396,603	27,028	7,066	85,152	14,096	529,945
1996	647	1	7	-	16	671	37	1,028	-	-	1,038	2,103	413,623	39,827	6,395	71,283	13,183	544,311
1997	1,097	4	8	-	34	1,143	71	3,383	-	7	1,437	4,898	466,483	48,157	7,747	84,588	9,962	616,936
1998	1,330	4	7	-	588	1,929	13	1,233	-	24	18,158	19,428	442,365	33,276	6,897	74,758	34,815	592,111
1999	1,719	-	-	24	369	2,112	27	3,092	-	2,113	4,279	9,511	599,160	44,076	4,059	62,254	24,310	733,859
2000	636	-	-	75	56	767	190	1,410	-	1,992	1,468	5,060	559,095	39,494	2,809	83,305	16,756	701,459
2001	17	-	-	34	19	70	191	679	-	2,448	55	3,373	591,243	22,799	4,523	121,616	14,755	754,935
2002	-	-	-	-	1	1	576	1,863	-	482	1,422	4,343	627,077	21,741	1,958	116,057	17,158	783,992
2003	-	-	1	-	25	26	80	1,238	-	215	750	2,283	714,079	33,416	1,177	110,799	25,600	885,071
2004	15	35	1	8	3	62	256	973	-	349	258	1,836	545,992	23,066	2,539	81,818	25,120	678,536
2005	313	18	-	-	11	342	190	1,922	-	363	427	2,902	605,945	25,664	3,187	62,585	19,865	717,246
2006	3,507	80	12	-	3	3,602	50	1,910	-	29	193	2,182	562,330	18,353	1,134	56,066	21,754	659,636
2007	15,906	628	107	2	-	16,643	598	1,221	-	2,197	301	4,317	464,948	12,540	1,298	51,488	22,179	552,452
2008	7,874	37	9	6	26	7,952	136	1,380	1	727	883	3,127	572,763	14,712	2,388	47,164	19,617	656,644
2009	9,720	15	-	8	77	9,820	162	469	-	1,933	74	2,638	561,695	9,875	860	57,466	21,743	651,640
2010	2,820	19	4	2	70	2,915	136	709	-	1,770	36	2,651	470,105	6,170	511	63,279	22,045	562,111
2011	7,969	45	18	10	11	8,053	108	784	-	3,178	-	4,070	552,631	7,813	318	61,136	18,311	640,208
2012	8,191	156	-	1	64	8,412	41	354	-	196	221	812	549,693	5,385	704	75,900	21,419	653,101
2013	2,067	9	-	13	27	2,116	53	461	-	-	529	1,043	555,088	4,009	923	74,397	22,286	656,703
2014	2,821	38	-	-	154	3,013	113	328	-	269	392	1,102	568,330	4,113	C	73,711	25,470	671,625
2015	789	28	-	1	-	818	90	242	-	-	1,232	1,564	645,357	4,836	C	81,466	23,756	755,415
2016	3,806	15	-	-	1	3,822	129	212	-	-	294	635	649,978	6,050	C	72,448	22,236	750,712
2017	3,438	54	-	-	130	3,622	234	303	C	1	366	904	615,572	3,041	C	73,078	14,191	705,882
2018	2,409	58	-	-	44	2,511	75	448	-	3	213	739	600,671	2,479	C	69,346	14,089	686,585
2019	7,255	27	-	-	37,775	45,057	83	276	-	4	66	429	659,953	4,348	C	60,789	52,306	777,396
2020	3,169	6	-	-	41,446	44,621	211	480	-	4	44	739	604,828	3,230	C	57,800	54,782	720,640
2021	6,899	75	-	-	46,153	53,127	1,253	441	-	1	172	1,867	654,029	3,127	C	62,869	55,638	775,663
2022	3,242	9	-	-	*	3,251	2,379	705	-	0	0	3,084	650,968	2,752	C	59,875	14,836	728,431
2023	855	0	C	-	64,831	65,686	1,943	589	-	-	424	2,956	740,886	2,729	C	61,792	73,177	878,584
2024	0	18	*	-	*	18	2,643	601	-	-	*	3,244	981,320	6,999	*	17,640	*	1,005,959

<sup>§</sup> Class-6 (carrying capacity >363 t) purse-seine vessels only-Buques cerqueros de Clase 6 (capacidad de acarreo >363 t) solamente

**TABLE A-2b.** Estimated catches, in metric tons, of billfishes in the EPO, by fishing gear, 1995-2024. Purse-seine (PS) vessel data are for Class-6 vessels only. The data for 2021-2024 are preliminary.

**TABLA A-2b.** Capturas estimadas, en toneladas métricas, de peces picudos en el OPO, por arte de pesca, 1995-2024. En el caso de los buques de cerco (PS), los datos son de buques de Clase 6 únicamente. Los datos de 2021-2024 son preliminares.

	Swordfish—Pez espada					Blue marlin—Marlín azul					Black marlin—Marlín negro					Striped marlin—Marlín rayado				
	PS §		LL	OTR	Total	PS §		LL	OTR	Total	PS §		LL	OTR	Total	PS §		LL	OTR	Total
	Ret.	Dis.				Ret.	Dis.				Ret.	Dis.				Ret.	Dis.			
1995	3	-	4,495	2,974	7,472	70	16	7,288	-	7,374	43	23	158	-	224	18	8	3,249	296	3,571
1996	1	-	7,071	2,486	9,558	62	15	3,596	-	3,673	46	24	100	-	170	20	9	3,218	430	3,677
1997	2	1	10,580	1,781	12,364	126	15	5,915	-	6,056	71	22	154	-	247	28	3	4,473	329	4,833
1998	3	-	9,800	3,246	13,049	130	20	4,856	-	5,006	72	28	168	-	268	20	3	3,558	509	4,090
1999	2	-	7,569	1,965	9,536	181	38	3,691	-	3,910	83	42	94	-	219	26	11	2,621	376	3,034
2000	3	-	8,930	2,383	11,316	120	23	3,634	-	3,777	67	21	105	-	193	17	3	1,889	404	2,313
2001	3	1	16,007	1,964	17,975	119	40	4,196	-	4,355	67	48	123	-	238	13	8	1,961	342	2,324
2002	1	-	17,598	2,119	19,718	188	33	3,480	-	3,701	86	30	78	-	194	69	5	2,158	412	2,644
2003	3	1	18,161	354	18,519	185	21	4,015	-	4,221	121	26	73	-	220	31	4	1,904	417	2,356
2004	2	-	15,372	309	15,683	140	21	3,783	-	3,944	62	5	41	-	108	23	1	1,547	390	1,961
2005	2	-	8,935	4,304	13,241	209	14	3,350	-	3,573	95	9	39	-	143	37	4	1,531	553	2,125
2006	7	-	9,890	3,800	13,697	164	21	2,934	105	3,224	124	21	77	-	222	54	3	1,735	490	2,282
2007	4	-	9,639	4,390	14,033	124	13	2,393	106	2,636	74	8	47	-	129	32	4	1,656	1,024	2,716
2008	6	-	12,248	3,071	15,325	125	8	1,705	114	1,952	76	9	100	-	185	33	2	1,291	1,045	2,371
2009	4	-	15,539	3,905	19,448	159	15	2,102	131	2,407	76	8	94	-	178	23	2	1,333	7	1,365
2010	4	-	18,396	4,480	22,880	176	12	2,920	126	3,234	62	9	160	-	231	21	2	2,129	9	2,161
2011	3	-	20,400	5,101	25,504	150	6	2,025	144	2,325	59	7	187	-	253	28	1	2,640	16	2,685
2012	5	-	23,587	7,148	30,740	178	15	3,723	177	4,093	71	4	444	-	519	28	-	2,703	20	2,751
2013	2	-	22,342	5,560	27,904	172	15	4,202	168	4,557	99	4	138	-	241	21	1	2,439	19	2,480
2014	4	-	21,331	6,332	27,667	209	12	4,069	186	4,476	70	4	151	-	225	22	1	1,929	3	1,955
2015	5	1	26,021	6,159	32,186	306	11	4,170	182	4,669	117	14	239	-	370	26	-	1,267	474	1,767
2016	4	-	24,370	7,513	31,887	247	6	3,776	175	4,204	62	3	80	-	145	19	-	1,562	4	1,585
2017	1	2	22,449	8,073	30,525	151	4	3,903	191	4,249	39	1	211	-	251	10	-	1,752	7	1,769
2018	2	-	24,571	7,040	31,613	167	1	4,094	174	4,436	23	-	298	-	321	10	1	1,819	5	1,835
2019	3	-	21,874	9,248	31,125	201	4	2,499	186	2,890	45	-	162	-	207	16	-	1,733	11	1,760
2020	2	-	22,489	5,768	28,259	131	1	2,787	194	3,113	45	-	611	-	656	10	-	1,843	9	1,862
2021	2	-	18,861	5,046	23,909	117	1	1,622	-	1,740	38	-	372	-	410	12	-	1,340	2	1,354
2022	3	-	20,687	5,038	25,728	168	3	1,250	-	1,421	39	1	213	-	253	16	1	1,062	2	1,081
2023	3	0	21,871	7,354	29,228	185	2	1,415	-	1,602	52	2	260	-	314	16	0	1,392	2	1,410
2024	3	0	*	*	3	205	6	*	-	211	50	1	*	-	51	22	0	*	*	22

§ Class-6 (carrying capacity >363 t) purse-seine vessels only-Buques cerqueros de Clase 6 (capacidad de acarreo >363 t) solamente

TABLE A-2b. (continued)

TABLA A-2b. (continuación)

	Shortbill spearfish— Marlín trompa corta					Sailfish— Pez vela					Unidentified istiophorid billfishes—Pículos istio- fóridos no identificados					Total billfishes— Total de peces picudos				
	PS <sup>§</sup>		LL	OTR	Total	PS <sup>§</sup>		LL	OTR	Total	PS <sup>§</sup>		LL	OTR	Total	PS <sup>§</sup>		LL	OTR	Total
	Ret.	Dis.				Ret.	Dis.				Ret.	Dis.				Ret.	Dis.			
1995	1	-	155	-	156	12	15	1,351	-	1,378	4	9	232	-	245	151	71	16,928	3,270	20,420
1996	1	-	126	-	127	10	12	738	-	760	6	13	308	-	327	146	73	15,157	2,916	18,292
1997	1	-	141	-	142	12	11	1,891	-	1,914	3	5	1,324	-	1,332	243	57	24,478	2,110	26,888
1998	-	-	200	-	200	28	31	1,382	-	1,441	5	7	575	55	642	258	89	20,539	3,810	24,696
1999	1	-	278	-	279	33	8	1,216	-	1,257	6	12	1,136	-	1,154	332	111	16,605	2,341	19,389
2000	1	-	285	-	286	33	17	1,380	-	1,430	3	6	880	136	1,025	244	70	17,103	2,923	20,340
2001	-	-	304	-	304	18	45	1,539	325	1,927	2	5	1,741	204	1,952	222	147	25,871	2,835	29,075
2002	1	-	273	-	274	19	15	1,792	17	1,843	4	5	1,862	14	1,885	368	88	27,241	2,562	30,259
2003	1	4	290	-	295	38	49	1,174	-	1,261	6	5	1,389	-	1,400	385	110	27,006	771	28,272
2004	1	-	207	-	208	19	13	1,400	17	1,449	4	4	1,385	-	1,393	251	44	23,735	716	24,746
2005	1	-	229	-	230	32	11	805	15	863	5	3	901	-	909	381	41	15,790	4,872	21,084
2006	1	-	231	-	232	30	13	1,007	35	1,085	23	4	490	1	518	403	62	16,364	4,431	21,260
2007	1	-	239	-	240	41	8	1,032	64	1,145	13	4	1,171	15	1,203	289	37	16,177	5,599	22,102
2008	1	-	266	-	267	28	7	524	72	631	16	5	1,587	8	1,616	285	31	17,721	4,310	22,347
2009	1	-	446	-	447	17	6	327	8	358	11	1	1,799	12	1,823	291	32	21,640	4,063	26,026
2010	1	-	519	-	520	27	20	655	3	705	8	2	2,604	-	2,614	299	45	27,383	4,618	32,345
2011	-	-	462	-	462	18	5	658	28	709	15	1	2,377	3	2,396	273	20	28,749	5,292	34,334
2012	1	-	551	-	552	14	2	685	15	716	10	1	2,178	-	2,189	307	22	33,871	7,360	41,560
2013	1	-	913	-	914	16	2	614	9	641	15	3	2,743	1	2,762	326	25	33,391	5,757	39,499
2014	-	-	721	-	721	16	1	481	8	506	8	2	220	3	233	329	20	28,902	6,532	35,783
2015	1	-	498	-	499	18	8	1,403	22	1,451	19	1	654	4	678	492	35	34,252	6,841	41,620
2016	1	-	416	-	417	49	9	458	19	535	112	9	633	1	755	494	27	31,295	7,712	39,528
2017	-	-	245	-	245	22	2	526	15	565	164	12	259	16	451	387	21	29,345	8,302	38,055
2018	-	-	234	-	234	13	2	466	17	498	123	6	204	12	345	338	10	31,686	7,248	39,282
2019	-	-	751	-	751	17	1	857	5	880	121	5	416	51	593	403	11	28,292	9,501	38,207
2020	1	-	611	-	612	18	1	492	3	514	77	3	564	32	676	284	5	29,397	6,006	35,692
2021	-	-	115	-	115	10	1	602	-	613	70	6	78	23	177	249	8	22,990	5,071	28,318
2022	1	-	174	-	175	8	2	548	-	558	61	4	101	2	168	296	11	24,035	5,042	29,384
2023	1	0	107	-	108	9	1	458	-	468	63	3	51	16	133	328	8	25,554	7,372	33,263
2024	0	0	*	-	-	18	1	*	-	19	62	3	*	*	65	360	11	*	*	371

<sup>§</sup> Class-6 (carrying capacity >363 t) purse-seine vessels only-Buques cerqueros de Clase 6 (capacidad de acarreo >363 t) solamente

**TABLE A-3a.** Retained catches (t) of yellowfin tuna by purse-seine vessels in the EPO, by vessel flag. ‘C’ indicates that the catch has been combined with the total in the ‘OTR’ column. The data have been adjusted to the species composition estimate and are preliminary.

**TABLA A-3a.** Capturas retenidas (t) de atún aleta amarilla por buques de cerco en el OPO, por bandera del buque. ‘C’ indica que la captura se ha combinado con el total en la columna ‘OTR’. Los datos están ajustados a la estimación de composición por especie, y son preliminares.

	COL	CRI	ECU	EU (ESP)	MEX	NIC	PAN	PER	SLV	USA	VEN	VUT	C + OTR <sup>1</sup>	Total
1995	8,829	C	17,044	C	108,749	-	1,714	-	-	5,069	47,804	22,220	4,005	215,434
1996	9,855	C	17,125	C	119,878	-	3,084	-	-	6,948	62,846	10,549	8,322	238,607
1997	9,402	-	18,697	C	120,761	-	4,807	-	-	5,826	57,881	20,701	6,803	244,878
1998	15,592	-	36,201	5,449	106,840	-	3,330	-	C	2,776	61,425	17,342	5,004	253,959
1999	13,267	-	53,683	8,322	114,545	C	5,782	-	C	3,400	55,443	16,476	11,002	281,920
2000	6,138	-	35,492	10,318	101,662	C	5,796	-	-	4,374	67,672	8,247	13,563	253,262
2001	12,950	-	55,347	18,448	130,087	C	9,552	-	C	5,670	108,974	10,729	32,180	383,937
2002	17,574	-	32,512	16,990	152,864	C	15,719	C	7,412	7,382	123,264	7,502	31,068	412,287
2003	9,770	-	34,271	12,281	172,807	-	16,591	C	C	3,601	96,914	9,334	27,710	383,279
2004	C	-	40,886	13,622	91,442	C	33,563	-	C	C	39,094	7,371	46,577	272,555
2005	C	-	40,596	11,947	110,898	4,838	33,393	-	6,470	C	28,684	C	31,276	268,102
2006	C	-	26,049	8,409	69,449	4,236	22,521	-	C	C	13,286	C	22,679	166,629
2007	C	-	19,749	2,631	65,091	3,917	26,024	-	C	C	20,097	C	32,507	170,016
2008	C	-	18,463	3,023	84,462	4,374	26,993	C	C	C	17,692	C	30,050	185,057
2009	C	-	18,167	7,864	99,785	6,686	35,228	C	C	C	25,298	C	43,729	236,757
2010	20,493	-	34,764	2,820	104,969	9,422	34,538	C	C	-	21,244	C	22,758	251,008
2011	18,643	-	32,946	1,072	99,812	7,781	18,607	-	C	C	18,712	C	9,278	206,851
2012	20,924	-	29,485	1,065	93,323	7,541	15,932	-	C	C	23,408	C	6,339	198,017
2013	16,476	-	27,655	511	114,706	8,261	18,301	C	C	-	24,896	C	7,381	218,187
2014	17,185	-	37,546	760	120,980	8,100	19,349	C	C	1,105	23,025	-	6,016	234,066
2015	17,270	-	50,153	C	106,171	6,876	26,558	783	C	3,212	30,428	-	4,276	245,727
2016	19,280	-	59,280	C	93,928	11,047	23,249	1,647	C	4,578	23,812	-	5,298	242,118
2017	15,106	-	55,705	C	80,870	9,347	19,921	3,349	C	6,500	16,809	-	3,373	210,980
2018	21,855	-	57,164	C	101,651	7,552	22,625	1,458	C	3,808	19,527	-	3,341	238,981
2019	17,177	-	46,102	C	105,426	7,114	17,826	1,782	C	6,515	22,558	-	3,814	228,313
2020	16,641	-	39,897	C	102,137	5,423	22,585	561	C	3,728	24,475	-	3,300	218,747
2021	14,613	-	50,420	C	107,945	7,429	30,095	C	C	4,595	33,293	-	5,025	253,415
2022	15,710	-	59,897	C	119,381	8,918	39,151	*	C	4,399	37,995	-	6,210	291,661
2023	21,147	-	53,588	C	143,062	10,083	35,118	C	C	4,811	24,089	-	6,082	297,980
2024	8,034	-	45,369	C	157,601	6,683	35,884	C	C	3,335	33,186	-	3,678	293,770

<sup>1</sup> Includes—Incluye: BLZ, BOL, CHN, EU(CYP), GTM, HND, LBR, NZL, UNK



**TABLE A-3b.** Total annual catches (t) of yellowfin tuna by longline vessels, and totals for all gears, in the EPO, by vessel flag. 'C' indicates that the catch has been combined with the total in the 'OTR' column. The data for 2021-2024 are preliminary.

**TABLA A-3b.** Capturas totales anuales (t) de atún aleta amarilla por buques de palangre en el OPO, y totales de todas las artes, por bandera del buque. 'C' indica que la captura se ha combinado con el total en la columna 'OTR'. Los datos de 2021-2024 son preliminares.

	CHN	CRI	FRA (PYF)	JPN	KOR	MEX	PAN	TWN	USA	VUT	C + OTR <sup>1</sup>	Total LL	Total PS+LL	OTR <sup>2</sup>
1995	-	542	198	17,042	2,748	7	-	28	31	-	*	20,596	236,030	3,334
1996	-	183	253	12,631	3,491	0	-	37	13	-	*	16,608	255,215	5,401
1997	-	715	307	16,218	4,753	-	-	131	11	-	28	22,163	267,041	5,018
1998	-	1,124	388	10,048	3,624	16	-	113	15	-	8	15,336	269,295	6,614
1999	-	1,031	206	7,186	3,030	10	-	186	7	-	26	11,682	293,602	4,489
2000	-	1,084	1,052	15,265	5,134	153	359	742	10	5	51	23,855	277,118	3,540
2001	942	1,133	846	14,808	5,230	29	732	3,928	29	13	1,918	29,608	413,544	4,436
2002	1,457	1,563	278	8,513	3,626	4	907	7,360	5	290	1,528	25,531	437,817	1,501
2003	2,739	1,418	462	9,125	4,911	365	C	3,477	5	699	1,973	25,174	408,453	1,615
2004	798	1,701	767	7,338	2,997	32	2,802	1,824	6	171	343	18,779	291,336	2,511
2005	682	1,791	530	3,966	532	0	1,782	2,422	7	51	183	11,946	280,047	3,674
2006	246	1,402	537	2,968	928	0	2,164	1,671	21	164	109	10,210	176,841	2,144
2007	224	1,204	408	4,582	353	8	-	745	11	154	378	8,067	178,083	2,333
2008	469	1,248	335	5,383	83	5	-	247	33	175	1,842	9,820	194,877	1,755
2009	629	1,003	590	4,268	780	10	-	636	84	244	2,200	10,444	247,201	1,950
2010	459	3	301	3,639	737	6	-	872	54	269	1,999	8,339	259,348	1,492
2011	1,807	-	349	2,373	754	6	-	647	55	150	1,907	8,048	214,899	1,406
2012	2,591	1,482	538	3,600	631	7	519	749	39	155	2,643	12,954	210,971	1,888
2013	1,874	1,424	410	3,117	928	8	325	572	43	101	1,981	10,783	228,970	1,993
2014	2,120	1,072	567	2,633	704	4	249	896	61	323	20	8,649	242,715	3,552
2015	2,642	1,415	929	2,177	957	20	419	1,287	107	530	139	10,622	256,349	3,582
2016	2,398	1,010	825	1,839	1,124	29	688	1,222	247	166	253	9,801	251,919	3,142
2017	2,907	837	1,252	1,463	1,176	10	612	1,263	532	406	190	10,647	221,627	2,761
2018	5,386	1,190	1,101	1,412	1,189	*	231	1,212	423	293	139	12,576	251,557	1,517
2019	3,372	1,490	1,015	1,652	1,725	*	314	1,556	253	344	199	11,921	240,234	1,436
2020	3,392	1,719	853	1,338	2,110	*	94	1,185	373	242	278	11,584	230,331	1,124
2021	2,299	-	1,933	1,027	1,641	*	1,037	895	204	215	139	9,390	262,805	704
2022	1,388	-	1,096	904	1,597	*	44	1,202	271	80	175	6,757	298,418	147
2023	1,474	-	1,007	579	2,347	*	81	1,216	257	143	83	7,187	305,167	624
2024	*	-	*	*	*	*	*	*	*	*	*	*	293,770	*

<sup>1</sup> Includes—Incluye: BLZ, CHL, ECU, EU(ESP), EU(PRT), GTM, HND, NIC, SLV

<sup>2</sup> Includes gillnets, Handline, Harpoon, pole-and-line, recreational, Trawler, Troll and unknown gears—Incluye red agallera, línea de mano, arpon, caña, artes deportivas, red de arrastre, curricán y desconocidas

**TABLE A-3c.** Total annual catches (t) of skipjack tuna by purse-seine and longline vessels in the EPO, by vessel flag, adjusted to the species composition estimate. ‘C’ indicates that the catch has been combined with the total in the ‘OTR’ column. The 2021-2024 data are preliminary.

**TABLA A-3c.** Capturas totales anuales (t) de atún barrilete por buques de cerco y de palangre en el OPO, por bandera del buque, ajustadas a la estimación de composición por especie. ‘C’ indica que la captura se ha combinado con el total en la columna ‘OTR’. Los datos de 2021-2024 son preliminares.

	PS														LL+ OTR <sup>2</sup>
	COL	CRI	ECU	EU(ESP)	MEX	NIC	PAN	PER	SLV	USA	VEN	VUT	C+OTR <sup>1</sup>	Total	
1995	13,081	C	31,934	C	29,406	-	4,084	-	-	14,032	5,508	13,910	15,092	127,047	7,241
1996	13,230	C	32,433	C	14,501	-	3,619	-	-	12,012	4,104	10,873	13,201	103,973	3,868
1997	12,332	-	51,826	C	23,416	-	4,277	-	-	13,687	8,617	14,246	25,055	153,456	3,491
1998	4,698	-	67,074	20,012	15,969	-	1,136	-	C	6,898	6,795	11,284	6,765	140,631	2,215
1999	11,210	-	124,393	34,923	16,767	C	5,286	-	C	13,491	16,344	21,287	17,864	261,565	3,638
2000	10,138	-	104,849	17,041	14,080	C	9,573	-	-	7,224	6,720	13,620	22,399	205,644	365
2001	9,445	-	66,144	13,454	8,169	C	6,967	-	C	4,135	3,215	7,824	23,813	143,166	1,696
2002	10,908	-	80,378	10,546	6,612	C	9,757	C	4,601	4,582	2,222	4,657	19,283	153,546	996
2003	14,771	-	139,804	18,567	8,147	-	25,084	C	C	5,445	6,143	14,112	41,895	273,968	4,049
2004	C	-	89,621	8,138	24,429	C	20,051	-	C	C	23,356	4,404	27,825	197,824	2,347
2005	C	-	140,927	9,224	32,271	3,735	25,782	-	4,995	C	22,146	C	24,149	263,229	3,309
2006	C	-	138,490	16,668	16,790	8,396	44,639	-	C	C	26,334	C	44,952	296,269	1,645
2007	C	-	93,553	2,879	21,542	4,286	28,475	-	C	C	21,990	C	35,571	208,296	1,579
2008	C	-	143,431	4,841	21,638	7,005	43,230	C	C	C	28,333	C	48,125	296,603	2,847
2009	C	-	132,712	6,021	6,847	5,119	26,973	C	C	C	19,370	C	33,481	230,523	2,821
2010	11,400	-	82,280	1,569	3,010	5,242	19,213	C	C	-	11,818	C	12,660	147,192	3,132
2011	23,269	-	149,637	5,238	11,899	3,889	29,837	-	C	C	27,026	C	25,240	276,035	2,259
2012	15,760	-	151,280	15,773	18,058	3,931	25,786	-	C	C	20,829	C	14,798	266,215	3,793
2013	22,168	-	172,002	2,900	17,350	4,345	31,022	C	C	-	17,522	C	11,251	278,560	3,229
2014	22,732	-	172,239	5,581	8,783	6,300	21,776	C	C	521	13,767	-	9,770	261,469	1,425
2015	16,431	-	208,765	C	23,515	1,261	31,427	5,225	C	16,826	4,792	-	20,665	328,907	1,443
2016	20,665	-	190,577	C	13,286	1,971	32,844	6,449	C	40,036	9,067	-	22,666	337,561	3,516
2017	19,284	-	190,139	C	21,238	6,959	37,419	6,257	C	24,989	7,288	-	11,186	324,759	1,105
2018	15,365	-	177,456	C	17,014	7,759	36,504	4,119	C	11,869	6,679	-	12,056	288,821	1,667
2019	23,395	-	211,827	C	19,656	8,089	33,662	8,944	C	19,706	5,719	-	16,407	347,405	735
2020	15,569	-	189,750	C	7,322	9,049	39,058	2,618	C	14,119	4,578	-	13,898	295,961	834
2021	26,107	-	193,168	C	7,944	7,574	44,375	C	C	24,116	7,306	-	15,934	326,524	268
2022	20,493	-	170,116	C	11,601	7,760	47,962	*	C	17,593	6,412	-	14,854	296,791	287
2023	21,830	-	231,535	C	12,034	8,934	53,570	C	C	29,843	2,767	-	28,371	388,884	342
2024	32,886	-	354,799	C	23,176	14,822	105,758	C	C	50,602	3,934	-	54,693	640,670	*

<sup>1</sup> Includes—Incluye: BLZ, BOL, CHN, EU(CYP), GTM, HND, LBR, NZL, UNK

<sup>2</sup> Includes gillnets, Handline, Harpoon, pole-and-line, recreational, Trawler, Troll and unknown gears—Incluye red agallera, línea de mano, arpon, caña, artes deportivas, red de arrastre, curricán y desconocidas

**TABLE A-3d.** Retained catches (t) of bigeye tuna by purse-seine vessels in the EPO, by vessel flag. ‘C’ indicates that the catch has been combined with the total in the ‘OTR’ column. The data have been adjusted to the species composition estimate and are preliminary for 2023 and 2024.

**TABLA A-3d.** Capturas retenidas (t) de atún patudo por buques de cerco en el OPO, por bandera del buque. ‘C’ indica que la captura se ha combinado con el total en la columna ‘OTR’. Los datos están ajustados a la estimación de composición por especie, y los de 2023 y 2024 son preliminares.

	COL	CRI	ECU	EU(ESP)	MEX	NIC	PAN	PER	SLV	USA	VEN	VUT	C + OTR <sup>1</sup>	Total
1995	5,815	C	8,304	C	91	-	839	*	-	11,042	706	12,072	6,452	45,321
1996	7,692	C	20,279	C	82	-	1,445	*	-	8,380	619	12,374	10,440	61,311
1997	3,506	-	30,092	C	38	-	1,811	*	-	8,312	348	6,818	13,347	64,272
1998	596	-	25,113	5,747	12	-	12	*	C	5,309	348	4,746	2,246	44,129
1999	1,511	-	24,355	11,703	33	C	1,220	*	C	2,997	10	5,318	4,011	51,158
2000	7,443	-	36,094	12,511	0	C	7,028	*	-	5,304	457	10,000	16,446	95,283
2001	5,230	-	24,424	7,450	0	C	3,858	*	C	2,290	0	4,333	12,933	60,518
2002	5,283	-	26,262	5,108	0	C	4,726	C	2,228	2,219	0	2,256	9,340	57,422
2003	3,664	-	22,896	4,605	0	-	6,222	C	C	1,350	424	3,500	10,390	53,051
2004	C	-	30,817	3,366	0	C	8,294	*	C	C	9,661	1,822	11,511	65,471
2005	C	-	30,507	3,831	0	1,551	10,707	*	2,074	C	9,197	C	10,028	67,895
2006	C	-	39,302	5,264	6	2,652	14,099	*	C	C	8,317	C	14,197	83,837
2007	C	-	40,445	711	0	1,058	7,029	*	C	C	5,428	C	8,780	63,451
2008	C	-	41,177	1,234	327	1,785	11,018	C	C	C	7,221	C	12,266	75,028
2009	C	-	35,646	2,636	1,334	2,241	11,807	C	C	C	8,479	C	14,657	76,800
2010	4,206	-	34,902	579	11	1,934	7,089	C	C	-	4,360	C	4,672	57,753
2011	3,210	-	31,282	4,111	133	2,256	7,953	*	C	C	301	C	7,266	56,512
2012	1,873	-	45,633	3,866	225	1,250	7,238	*	C	C	848	C	5,087	66,020
2013	1,405	-	32,444	1,672	124	2,749	6,118	-	C	-	963	C	4,012	49,487
2014	2,479	-	39,094	2,812	40	3,068	8,168	-	C	129	1,183	-	3,472	60,445
2015	2,470	-	44,063	C	156	774	10,113	-	C	2,384	100	-	2,853	62,913
2016	2,743	-	33,139	C	255	667	8,440	312	C	2,801	345	-	8,029	56,731
2017	3,656	-	38,299	C	358	1,610	10,544	0	C	6,210	1,256	-	5,040	66,973
2018	1,449	-	40,427	C	766	1,519	11,753	104	C	3,354	1,157	-	3,994	64,523
2019	4,171	-	38,757	C	962	2,630	10,868	-	C	3,304	996	-	7,536	69,223
2020	4,548	-	47,957	C	726	1,885	10,519	65	C	4,066	688	-	8,330	78,784
2021	3,742	-	31,084	C	1,107	1,700	6,473	-	C	5,078	275	-	8,711	58,170
2022	2,137	-	24,252	C	580	2,056	7,374	-	C	3,866	838	-	5,871	46,974
2023	1,712	-	23,209	C	331	1,666	5,592	C	C	2,923	20	-	6,913	42,366
2024	1,775	-	18,746	C	774	710	2,898	C	C	3,215	130	-	5,810	34,058

<sup>1</sup> Includes—Incluye: BLZ, BOL, CHN, EU(CYP), GTM, HND, LBR, NZL, UNK

**TABLE A-3e.** Total annual catches (t) of bigeye tuna by longline vessels, and totals for all gears, in the EPO, by vessel flag. 'C' indicates that the catch has been combined with the total in the 'OTR' column. The data for 2021-2024 are preliminary.

**TABLA A-3e.** Capturas totales anuales (t) de atún patudo por buques de palangre en el OPO, y totales de todas las artes, por bandera del buque. 'C' indica que la captura se ha combinado con el total en la columna 'OTR'. Los datos de 2021-2024 son preliminares.

	CHN	CRI	FRA (PYF)	JPN	KOR	MEX	PAN	TWN	USA	VUT	C + OTR <sup>1</sup>	Total LL	Total PS + LL	OTR <sup>2</sup>
1995	-	13	97	49,016	8,992	-	-	77	74	-	*	58,269	103,590	1,369
1996	-	1	113	36,685	9,983	-	-	95	81	-	*	46,958	108,269	748
1997	-	9	250	40,571	11,376	-	-	256	118	-	*	52,580	116,852	20
1998	-	28	359	35,752	9,731	-	-	314	191	-	*	46,375	90,504	628
1999	-	25	3,652	22,224	9,431	-	-	890	228	-	*	36,450	87,608	538
2000	-	27	653	28,746	13,280	42	14	1,916	162	2,754	11	47,605	142,887	253
2001	2,639	28	684	38,048	12,576	1	80	9,285	147	3,277	1,990	68,755	129,273	19
2002	7,614	19	388	34,193	10,358	-	6	17,253	132	2,995	1,466	74,424	131,845	12
2003	10,066	18	346	24,888	10,272	-	C	12,016	232	1,258	680	59,776	112,828	21
2004	2,645	21	405	21,236	10,729	-	48	7,384	149	407	459	43,483	108,954	194
2005	2,104	23	398	19,113	11,580	-	30	6,441	536	318	151	40,694	108,589	25
2006	709	18	388	16,235	6,732	-	37	6,412	85	960	195	31,771	115,608	40
2007	2,324	15	361	13,977	5,611	-	-	6,057	417	1,013	101	29,876	93,326	44
2008	2,379	16	367	14,908	4,150	-	-	1,852	1,277	790	468	26,207	101,236	28
2009	2,481	13	484	15,490	6,758	-	-	3,396	730	1,032	1,038	31,422	108,221	15
2010	2,490	4	314	15,847	9,244	-	-	5,276	1,356	1,496	1,063	37,090	94,842	2
2011	5,450	-	445	13,399	6,617	-	-	3,957	1,050	694	706	32,318	88,829	-
2012	4,386	3	464	16,323	7,450	-	-	4,999	875	1,063	604	36,167	102,187	27
2013	5,199	-	527	14,258	8,822	-	-	4,162	2,054	604	544	36,170	85,657	99
2014	5,253	9	526	13,634	8,203	-	114	4,511	2,073	913	120	35,356	95,801	170
2015	8,401	8	692	13,079	8,635	-	364	5,181	2,948	2,073	328	41,709	104,622	21
2016	7,052	3	477	10,467	7,692	-	313	6,006	2,090	877	679	35,656	92,387	24
2017	7,093	16	700	8,055	8,749	-	357	6,186	2,700	1,463	331	35,650	102,623	36
2018	6,060	14	897	6,125	6,675	-	415	5,125	2,408	1,841	227	29,787	94,310	24
2019	5,372	23	800	5,656	6,137	-	325	5,868	1,720	1,571	315	27,787	97,010	18
2020	4,048	35	745	5,139	7,633	-	164	5,414	1,405	1,077	299	25,959	104,743	44
2021	3,481	-	906	4,224	7,029	-	41	3,526	1,388	947	163	21,705	79,875	9
2022	2,923	-	1,127	3,652	6,629	-	97	5,128	1,051	256	249	21,106	68,080	87
2023	2,382	-	929	2,648	11,428	-	57	5,056	1,274	700	127	24,601	66,967	174
2024	2,633	-	*	2,028	7,871	-	*	3,890	*	1,218	*	17,640	51,698	*

<sup>1</sup> Includes—Incluye: BLZ, CHL, ECU, EU(ESP), EU(PRT), HND, SLV

<sup>2</sup> Includes gillnets, Handline, Harpoon, pole-and-line, recreational, Trawler, Troll and unknown gears—Incluye red agallera, línea de mano, arpon, caña, artes deportivas, red de arrastre, curricán y desconocidas

**TABLE A-4a.** Preliminary estimates of the retained catches, in metric tons, of tunas and bonitos caught by purse-seine vessels in the EPO in 2023 and 2024, by species and vessel flag. The data for yellowfin, skipjack, and bigeye tunas have been adjusted to the species composition estimates and are preliminary.

**TABLA A-4a.** Estimaciones preliminares de las capturas retenidas, en toneladas métricas, de atunes y bonitos por buques cerqueros en el OPO en 2023 y 2024, por especie y bandera del buque. Los datos de los atunes aleta amarilla, barrilete, y patudo fueron ajustados a las estimaciones de composición por especie, y son preliminares.

	YFT	SKJ	BET	PBF	ALB	BKJ	BZX	TUN	Total	%
<b>2023</b>	<b>Retained catches–Capturas retenidas</b>									
COL	21,146	21,830	1,712	-	-	9	-	51	44,748	6.0
ECU	53,588	231,535	23,209	-	-	1,535	3	1,770	311,640	42.1
MEX	143,062	12,034	331	3,399	-	3,859	754	3	163,442	22.1
NIC	10,083	8,934	1,667	-	-	1	-	6	20,691	2.8
PAN	35,118	53,570	5,592	-	-	38	-	96	94,414	12.7
USA	4,811	29,843	2,923	3	-	5	97	6	37,688	5.1
VEN	24,089	2,767	20	-	-	8	1	2	26,887	3.6
OTR <sup>1</sup>	6,083	28,371	6,912	-	-	1	-	9	41,376	5.6
<b>Total</b>	<b>297,980</b>	<b>388,884</b>	<b>42,366</b>	<b>3,402</b>	<b>-</b>	<b>5,456</b>	<b>855</b>	<b>1,943</b>	<b>740,886</b>	
<b>2024</b>	<b>Retained catches–Capturas retenidas</b>									
COL	8,034	32,886	1,775	-	-	69	-	15	42,779	4.4
ECU	45,369	354,799	18,746	-	-	2,414	-	2,012	423,340	43.1
MEX	157,601	23,176	774	3,531	-	3,568	-	22	188,672	19.2
NIC	6,683	14,822	710	-	-	74	-	52	22,341	2.3
PAN	35,884	105,758	2,898	-	-	441	-	447	145,428	14.8
USA	3,335	50,602	3,215	-	1	55	-	20	57,228	5.8
VEN	33,186	3,934	130	-	-	15	-	-	37,265	3.8
OTR <sup>2</sup>	3,678	54,693	5,810	-	-	11	-	75	64,267	6.6
<b>Total</b>	<b>293,770</b>	<b>640,670</b>	<b>34,058</b>	<b>3,531</b>	<b>1</b>	<b>6,647</b>	<b>-</b>	<b>2,643</b>	<b>981,320</b>	

<sup>1</sup> Includes El Salvador, European Union (Spain) and Peru - This category is used to avoid revealing the operations of individual vessels or companies.

<sup>1</sup> Incluye El Salvador, Perú y Unión Europea (España) - Se usa esta categoría para no revelar información sobre las actividades de buques o empresas individuales.

<sup>2</sup> Includes El Salvador, European Union (Spain) and Peru - This category is used to avoid revealing the operations of individual vessels or companies.

<sup>2</sup> Incluye El Salvador, Perú y Unión Europea (España) - Se usa esta categoría para no revelar información sobre las actividades de buques o empresas individuales.

**TABLE A-4b.** Preliminary estimates of the landings, in metric tons, of tunas and bonitos caught by purse-seine vessels in the EPO in 2023 and 2024, by year, species and country of landing. The data for yellowfin, skipjack, and bigeye tunas have not been adjusted to the species composition estimates and are preliminary. Landings in a given year may include retained catches from the previous year.

**TABLA A-4b.** Estimaciones preliminares de las descargas, en toneladas métricas, de atunes y bonitos por buques cerqueros en el OPO en 2023 y 2024, por año, especie y país de descarga. Los datos de los atunes aleta amarilla, barrilete, y patudo no fueron ajustados a las estimaciones de composición por especie, y son preliminares. Las descargas de un año determinado pueden incluir capturas retenidas del año anterior.

	YFT	SKJ	BET	PBF	ALB	BKJ	BZX	TUN	Total	%
<b>2023</b>	<b>Landings-Descargas</b>									
COL	20,138	12,285	986	-	-	-	-	-	33,409	4.5
ECU	110,646	317,097	27,820	-	-	1,596	2	1,911	459,072	62.1
MEX	140,853	10,900	246	3,399	-	3,858	754	3	160,013	21.7
PER	1,605	14,227	630	-	-	8	-	63	16,533	2.2
USA	2,890	13,082	1,245	3	-	-	97	-	17,317	2.4
OTR <sup>1</sup>	28,944	20,069	3,365	-	-	-	-	6	52,384	7.1
<b>Total</b>	<b>305,076</b>	<b>387,660</b>	<b>34,292</b>	<b>3,402</b>	<b>-</b>	<b>5,462</b>	<b>853</b>	<b>1,983</b>	<b>738,728</b>	
<b>2024</b>	<b>Landings-Descargas</b>									
COL	11,450	27,587	1,604	-	-	16	-	5	40,662	4.1
ECU	103,458	487,923	21,250	-	-	2,906	2	2,589	618,128	62.8
MEX	156,827	21,796	700	3,531	-	3,567	-	18	186,439	18.9
PER	1,784	23,132	741	-	-	8	-	15	25,680	2.6
USA	915	26,964	1,322	-	1	-	-	-	29,202	3.0
OTR <sup>2</sup>	34,599	45,542	3,784	-	-	57	-	35	84,017	8.6
<b>Total</b>	<b>309,033</b>	<b>632,944</b>	<b>29,401</b>	<b>3,531</b>	<b>1</b>	<b>6,554</b>	<b>2</b>	<b>2,662</b>	<b>984,128</b>	

<sup>1</sup> Includes Costa Rica, El Salvador, France (French Polynesia), Guatemala, Kiribati, Marshall Islands, Panama, Philippines, Solomon Islands and Thailand - This category is used to avoid revealing the operations of individual vessels or companies.

<sup>1</sup> Incluye Costa Rica, El Salvador, Filipinas, Francia (Polinesias Francesas), Guatemala, Islas Marshall, Islas Salomón, Kiribati, Panamá y Tailandia - Se usa esta categoría para no revelar información sobre las actividades de buques o empresas individuales.

<sup>2</sup> Includes Costa Rica, El Salvador, China, Guatemala, High Seas, Kiribati and Panama - This category is used to avoid revealing the operations of individual vessels or companies.

<sup>2</sup> Incluye Costa Rica, El Salvador, China, Guatemala, High Seas, Kiribati y Panamá - Se usa esta categoría para no revelar información sobre las actividades de buques o empresas individuales.

**TABLE A-5a.** Annual retained catches of Pacific bluefin tuna, by gear type and flag, in metric tons, 1995-2023. The data for 2021, 2022 and 2023 are preliminary; 2024 data are not available.

**TABLA A-5a.** Capturas retenidas anuales de atún aleta azul del Pacífico, por arte de pesca y bandera, en toneladas, 1995-2023. Los datos de 2021, 2022 y 2023 son preliminares; no se dispone de datos de 2024.

PBF	Western Pacific flags—Banderas del Pacífico occidental <sup>1</sup>										EPO flags—Banderas del OPO						Total
	JPN				KOR		TWN			Sub- total	MEX		USA		Sub- total		
	PS	LP	LL	OTR	PS	OTR	PS	LL	OTR		PS	OTR	PS	OTR			
1995	18,909	270	678	7,223	821	-	-	335	2	28,238	11	-	657	294	962	29,200	
1996	7,644	94	901	5,359	102	-	-	956	-	15,056	3,700	-	4,639	110	8,449	23,505	
1997	13,152	34	1,300	4,354	1,054	-	-	1,814	-	21,708	367	-	2,240	264	2,871	24,579	
1998	5,391	85	1,255	4,450	188	-	-	1,910	-	13,279	1	0	1,771	703	2,475	15,754	
1999	16,173	35	1,157	5,246	256	-	-	3,089	-	25,956	2,369	35	184	592	3,180	29,136	
2000	16,486	102	953	7,031	2,401	-	-	2,780	2	29,755	3,019	99	693	380	4,191	33,946	
2001	7,620	180	791	5,614	1,176	10	-	1,839	4	17,234	863	-	292	392	1,547	18,781	
2002	8,903	99	841	4,338	932	1	-	1,523	4	16,641	1,708	2	50	625	2,385	19,026	
2003	5,768	44	1,237	3,345	2,601	-	-	1,863	21	14,879	3,211	43	22	373	3,649	18,528	
2004	8,257	132	1,847	3,855	773	-	-	1,714	3	16,581	8,880	14	-	61	8,955	25,536	
2005	12,817	549	1,925	6,363	1,318	9	-	1,368	2	24,351	4,542	-	201	80	4,823	29,174	
2006	8,880	108	1,121	4,058	1,012	3	-	1,149	1	16,332	9,806	-	-	96	9,902	26,234	
2007	6,840	236	1,762	4,983	1,281	4	-	1,401	10	16,517	4,147	-	42	14	4,203	20,720	
2008	10,221	64	1,390	5,505	1,866	10	-	979	2	20,037	4,407	15	-	64	4,486	24,523	
2009	8,077	50	1,080	4,814	936	4	-	877	11	15,849	3,019	-	410	162	3,591	19,440	
2010	3,742	83	890	3,681	1,196	16	-	373	36	10,017	7,746	-	-	89	7,835	17,852	
2011	8,340	63	837	3,754	670	14	-	292	24	13,994	2,731	1	-	343	3,075	17,069	
2012	2,462	113	673	2,846	1,421	2	-	210	4	7,731	6,668	1	-	442	7,111	14,842	
2013	2,771	8	784	2,848	604	1	-	331	3	7,350	3,154	-	-	820	3,974	11,324	
2014	5,456	5	683	3,429	1,305	6	-	483	42	11,409	4,862	-	401	427	5,690	17,099	
2015	3,645	8	648	2,086	676	1	-	552	26	7,642	3,082	-	86	411	3,579	11,221	
2016	5,095	54	691	2,514	1,024	5	-	454	0	9,837	2,709	-	316	413	3,438	13,275	
2017	4,540	49	913	3,491	734	9	-	415	0	10,151	3,643	-	466	483	4,592	14,743	
2018	4,049	9	700	1,447	523	12	-	381	3	7,124	2,840	-	12	589	3,441	10,565	
2019	4,464	0	1,002	2,043	542	39	-	486	6	8,582	2,249	-	226	533	3,008	11,590	
2020	3,960	1	1,416	2,634	567	38	-	1,149	1	9,766	3,285	-	116	860	4,261	14,027	
2021	4,198	0	1,512	2,907	422	87	-	1,478	-	10,604	3,027	-	43	1,468	4,538	15,142	
2022	4,702	13	1,599	3,798	654	227	-	1,496	1	12,490	3,194	-	198	1,751	5,143	17,633	
2023	4,570	24	1,556	3,642	448	220	-	2,117	1	12,578	3,399	-	3	2,071	5,473	18,051	

<sup>1</sup> Source: International Scientific Committee, 24<sup>th</sup> Plenary Meeting, PBFWG workshop report on Pacific Bluefin Tuna, June 2024—Fuente: Comité Científico Internacional, 24<sup>a</sup> Reunión Plenaria, Taller PBFWG sobre Atún Aleta Azul del Pacífico, junio de 2024

**TABLE A-5b.** Reported catches of Pacific bluefin tuna in the EPO by recreational gear, in number of fish, 1995-2024. 2024 data are not available.

**TABLA A-5b.** Capturas reportadas de atún aleta azul del Pacífico en el OPO por artes deportivas, en número de peces, 1995-2024. No se dispone de datos de 2024.

<b>1995</b>	16,025	<b>2010</b>	8,453
<b>1996</b>	2,739	<b>2011</b>	31,494
<b>1997</b>	8,338	<b>2012</b>	40,012
<b>1998</b>	20,466	<b>2013</b>	63,158
<b>1999</b>	36,797	<b>2014</b>	27,889
<b>2000</b>	20,669	<b>2015</b>	28,661
<b>2001</b>	21,913	<b>2016</b>	12,312
<b>2002</b>	33,399	<b>2017</b>	16,493
<b>2003</b>	22,291	<b>2018</b>	14,072
<b>2004</b>	3,391	<b>2019</b>	18,702
<b>2005</b>	5,757	<b>2020</b>	37,469
<b>2006</b>	7,473	<b>2021</b>	58,823
<b>2007</b>	1,028	<b>2022</b>	59,595
<b>2008</b>	10,187	<b>2023</b>	80,196
<b>2009</b>	12,138	<b>2024</b>	



**TABLE A-6.** Annual retained catches of albacore in the EPO, by gear and area (north and south of the equator), in metric tons, 1995-2023. The data for 2021, 2022 and 2023 are preliminary; 2024 data are not available.

**TABLA A-6.** Capturas retenidas anuales de atún albacora en el OPO, por arte y zona (al norte y al sur de la línea ecuatorial), en toneladas, 1995-2023. Los datos de 2021, 2022 y 2023 son preliminares; no se dispone de datos de 2024.

ALB	North—Norte				South—Sur				Total
	LL	LTL <sup>1</sup>	OTR	Subtotal	LL	LTL	OTR	Subtotal	
1995	1,380	7,773	102	9,255	4,805	2	15	4,822	14,077
1996	1,675	8,267	99	10,041	5,956	94	21	6,071	16,112
1997	1,365	6,115	1,019	8,499	8,313	466	0	8,779	17,278
1998	1,730	12,019	1,250	14,999	10,905	12	0	10,917	25,916
1999	2,701	11,028	3,668	17,397	8,932	81	7	9,020	26,417
2000	1,880	10,960	1,869	14,709	7,783	778	3	8,564	23,273
2001	1,822	11,727	1,638	15,187	17,588	516	6	18,110	33,297
2002	1,227	12,286	2,388	15,901	14,062	131	40	14,233	30,134
2003	1,129	17,808	2,260	21,197	23,772	419	3	24,194	45,391
2004	854	20,288	1,623	22,765	17,590	331	0	17,921	40,686
2005	405	13,807	1,741	15,953	8,945	181	7	9,133	25,086
2006	3,671	18,515	408	22,594	10,161	48	119	10,328	32,922
2007	2,708	17,948	1,415	22,071	8,399	19	87	8,505	30,576
2008	1,160	17,137	308	18,605	8,058	0	159	8,217	26,822
2009	91	17,933	996	19,020	11,981	0	213	12,194	31,214
2010	1,134	18,246	892	20,272	13,122	3	247	13,372	33,644
2011	1,833	15,437	426	17,696	14,357	0	222	14,579	32,275
2012	4,583	16,633	1,222	22,438	19,613	35	210	19,858	42,296
2013	6,193	17,398	844	24,435	19,204	0	271	19,475	43,910
2014	3,546	18,178	1,042	22,766	25,685	0	243	25,928	48,694
2015	2,067	15,986	935	18,988	26,872	0	221	27,093	46,081
2016	1,627	13,600	679	15,906	25,150	0	290	25,440	41,346
2017	2,580	8,851	402	11,833	24,012	3	186	24,201	36,034
2018	1,106	10,433	539	12,078	24,653	0	174	24,827	36,905
2019	1,425	10,146	1,517	13,088	19,389	1	212	19,602	32,690
2020	2,911	9,884	327	13,122	17,072	0	127	17,199	30,321
2021	1,368	6,629	312	8,309	30,071	2	19	30,092	38,401
2022	1,810	12,080	652	14,542	29,999	14	88	30,101	44,643
2023	1,376	4,305	578	6,259	28,413	3	15	28,431	34,690

<sup>1</sup> Includes pole-and-line—Incluye caña

**TABLE A-7.** Estimated numbers of sets, by set type and vessel capacity category, and estimated retained catches, in metric tons, of yellowfin, skipjack, and bigeye tuna by purse-seine vessels in the EPO. The data for 2023 and 2024 are preliminary. The data for yellowfin, skipjack, and bigeye tunas have been adjusted to the species composition estimate and are preliminary.

**TABLA A-7.** Números estimados de lances, por tipo de lance y categoría de capacidad de buque, y capturas retenidas estimadas, en toneladas métricas, de atunes aleta amarilla, barrilete, y patudo por buques cerqueros en el OPO. Los datos de 2023 y 2024 son preliminares. Los datos de los atunes aleta amarilla, barrilete, y patudo fueron ajustados a la estimación de composición por especie, y son preliminares.

	Number of sets—Número de lances			Retained catch—Captura retenida		
	Vessel capacity— Capacidad del buque		Total	YFT	SKJ	BET
	≤363 t	>363 t				
DEL	Sets associated with dolphins Lances asociados a delfines					
2009	0	10,910	10,910	178,291	2,683	1
2010	0	11,646	11,646	170,028	1,365	0
2011	0	9,604	9,604	134,926	4,387	2
2012	0	9,220	9,220	133,825	2,122	0
2013	0	10,736	10,736	157,432	4,272	0
2014	0	11,382	11,382	167,780	4,413	3
2015	0	11,020	11,020	160,595	5,608	2
2016	0	11,219	11,219	146,526	3,179	4
2017	0	8,863	8,863	112,533	1,656	1
2018	0	9,774	9,774	147,859	2,456	1
2019	0	9,680	9,680	153,649	3,696	28
2020	0	9,773	9,773	150,263	1,705	63
2021	0	9,887	9,887	158,256	2,585	0
2022	0	10,614	10,614	177,458	2,874	0
2023	0	10,328	10,328	198,411	9,584	0
2024	0	10,554	10,554	195,076	12,035	0
OBJ	Sets associated with floating objects Lances asociados a objetos flotantes					
2009	2,142	7,077	9,219	36,147	157,023	75,889
2010	2,432	6,399	8,831	37,850	114,659	57,059
2011	2,538	6,921	9,459	42,176	171,193	55,587
2012	3,067	7,610	10,677	37,487	177,055	65,035
2013	3,081	8,038	11,119	35,112	194,372	48,337
2014	3,860	8,777	12,637	46,049	199,696	59,797
2015	3,457	9,385	12,842	43,603	206,515	60,975
2016	4,214	10,377	14,591	58,673	248,190	55,269
2017	4,544	11,148	15,692	67,167	224,422	65,443
2018	4,954	11,871	16,825	66,122	213,626	63,815
2019	4,885	10,591	15,476	52,862	226,375	68,553
2020	3,363	8,788	12,151	44,461	191,399	78,208
2021	4,002	11,167	15,169	66,542	227,028	57,391
2022	4,520	13,394	17,914	90,837	241,855	46,737
2023	4,634	12,630	17,264	74,129	319,153	42,167
2024	3,494	11,715	15,209	62,395	458,923	33,808

TABLE A-7. (continued)

TABLA A-7. (continuación)

	Number of sets—Número de lances			Retained catch—Captura retenida		
	Vessel capacity— Capacidad del buque		Total	YFT	SKJ	BET
	≤363 t	>363 t				
Sets on unassociated schools Lances sobre cardúmenes no asociados						
2009	3,822	4,109	7,931	22,319	70,817	909
2010	2,744	3,885	6,629	43,131	31,168	693
2011	2,840	5,182	8,022	29,749	100,455	923
2012	2,996	5,369	8,365	26,705	87,038	985
2013	3,064	4,156	7,220	25,643	79,916	1,150
2014	2,428	3,369	5,797	20,237	57,360	645
2015	3,116	6,201	9,317	41,529	116,784	1,936
2016	2,300	5,101	7,401	36,919	86,192	1,458
2017	2,016	4,960	6,976	31,280	98,681	1,529
2018	1,925	4,163	6,088	25,000	72,739	707
2019	2,064	5,948	8,012	21,802	117,334	642
2020	1,883	4,575	6,458	24,023	102,857	513
2021	1,678	4,803	6,481	28,617	96,911	779
2022	1,301	3,459	4,760	23,366	52,062	237
2023	850	3,435	4,285	25,440	60,147	199
2024	1,065	6,538	7,603	36,299	169,712	250
Sets on all types of schools Lances sobre todos tipos de cardumen						
2009	5,964	22,096	28,060	236,757	230,523	76,799
2010	5,176	21,930	27,106	251,009	147,192	57,752
2011	5,378	21,707	27,085	206,851	276,035	56,512
2012	6,063	22,199	28,262	198,017	266,215	66,020
2013	6,145	22,930	29,075	218,187	278,560	49,487
2014	6,288	23,528	29,816	234,066	261,469	60,445
2015	6,573	26,606	33,179	245,727	328,907	62,913
2016	6,514	26,697	33,211	242,118	337,561	56,731
2017	6,560	24,971	31,531	210,980	324,759	66,973
2018	6,879	25,808	32,687	238,981	288,821	64,523
2019	6,949	26,219	33,168	228,313	347,405	69,223
2020	5,246	23,136	28,382	218,747	295,961	78,784
2021	5,680	25,857	31,537	253,415	326,524	58,170
2022	5,821	27,467	33,288	291,661	296,791	46,974
2023	5,484	26,393	31,877	297,980	388,884	42,366
2024	4,559	28,807	33,366	293,770	640,670	34,058

**TABLE A-8.** Types of floating objects involved in sets by vessels of >363 t carrying capacity, 2009-2024. The 2023 and 2024 data are preliminary.

**TABLA A-8.** Tipos de objetos flotantes sobre los que realizaron lances buques de >363 t de capacidad de acarreo, 2009-2024. Los datos de 2023 and 2024 son preliminares.

OBJ	Flotsam Naturales		FADs Plantados		Unknown Desconocido		Total
	No.	%	No.	%	No.	%	
2009	322	4.5	6,728	95.1	27	0.4	7,077
2010	337	5.3	6,038	94.3	24	0.4	6,399
2011	563	8.1	6,342	91.6	16	0.2	6,921
2012	286	3.8	7,321	96.2	3	< 0.1	7,610
2013	274	3.4	7,759	96.5	5	0.1	8,038
2014	283	3.2	8,490	96.7	4	< 0.1	8,777
2015	273	2.9	9,093	96.9	19	0.2	9,385
2016	278	2.7	10,070	97.0	29	0.3	10,377
2017	271	2.4	10,877	97.6	0	0	11,148
2018	322	2.7	11,549	97.3	0	0	11,871
2019	216	2.0	10,373	97.9	2	< 0.1	10,591
2020	166	1.9	8,622	98.1	0	0	8,788
2021	260	2.3	10,907	97.7	0	0	11,167
2022	413	3.1	12,980	96.9	1	< 0.1	13,394
2023	375	3.0	12,253	97.0	2	< 0.1	12,630
2024	297	2.5	11,417	97.5	1	< 0.1	11,715

**TABLE A-9.** Reported nominal longline fishing effort (E; 1000 hooks) and catch (C; metric tons) of yellowfin, skipjack, bigeye, Pacific bluefin, and albacore tunas only, by flag, in the EPO. 2024 data are not available.

**TABLA A-9.** Esfuerzo de pesca palangrero nominal reportado (E; 1000 anzuelos), y captura (C; toneladas métricas) de atunes aleta amarilla, barrilete, patudo, aleta azul del Pacífico, y albacora solamente, por bandera, en el OPO. No se dispone de datos de 2024.

LL	CHN		JPN		KOR		FRA(PYF)		TWN		USA		OTR <sup>1</sup>
	E	C	E	C	E	C	E	C	E	C	E	C	
1995	-	-	129,598	69,435	54,979	12,778	1,776	559	2,910	1,639	828	180	562
1996	-	-	103,654	52,298	40,290	14,121	2,087	931	5,830	3,553	510	182	185
1997	-	-	96,383	59,325	30,493	16,663	3,464	1,941	8,720	5,673	464	215	752
1998	-	-	106,568	50,167	51,817	15,089	4,724	2,858	10,586	5,039	1,008	406	1,176
1999	-	-	80,958	32,886	54,269	13,294	5,512	4,446	23,247	7,865	1,756	469	1,157
2000	-	-	79,311	45,216	33,585	18,759	8,090	4,382	18,152	7,809	737	204	4,868
2001	13,056	5,162	102,219	54,775	72,261	18,201	7,445	5,086	41,920	20,060	1,438	238	15,612
2002	34,889	10,398	103,920	45,401	96,273	14,370	943	3,238	78,018	31,773	613	138	10,258
2003	43,289	14,548	101,227	36,187	71,006	15,551	11,098	4,101	74,460	28,328	1,314	262	11,595
2004	15,889	4,033	76,824	30,936	55,861	14,540	13,757	3,030	49,979	19,535	1,049	166	9,193
2005	16,896	3,681	65,081	25,712	15,798	12,284	13,356	2,515	38,536	12,229	2,397	557	5,244
2006	588	969	56,525	21,432	27,472	7,892	11,786	3,220	38,134	12,375	234	121	10,027
2007	12,226	2,624	45,972	20,514	10,548	6,037	9,672	3,753	22,244	9,498	2,689	436	6,424
2008	11,518	2,984	44,547	21,375	3,442	4,256	10,255	3,017	12,544	4,198	6,322	1,369	9,231
2009	10,536	3,435	41,517	21,492	18,364	7,615	10,686	4,032	13,904	6,366	5,141	852	11,731
2010	11,905	3,590	47,807	21,017	25,816	10,477	8,976	3,139	24,976	10,396	8,879	1,480	11,400
2011	37,384	9,983	52,194	18,682	25,323	7,814	9,514	3,192	21,065	9,422	7,359	1,233	7,616
2012	55,508	14,462	55,587	22,214	20,338	8,286	8,806	3,589	20,587	11,924	5,822	986	14,237
2013	70,411	18,128	48,825	19,097	31,702	10,248	9,847	3,303	19,198	11,722	10,765	2,127	9,754
2014	78,851	24,282	40,735	17,235	22,695	9,132	10,572	3,291	17,047	10,435	11,276	2,168	6,874
2015	99,131	25,559	35,290	16,046	22,394	9,879	13,661	4,509	15,334	11,274	13,868	3,089	10,924
2016	66,405	25,756	30,910	13,242	23,235	9,457	13,677	3,954	20,941	11,432	11,313	2,372	6,236
2017	82,461	27,341	27,961	10,617	27,540	10,525	11,641	3,425	24,164	11,811	15,266	3,266	6,093
2018	83,023	27,024	24,608	8,686	19,443	8,474	13,258	4,300	31,735	9,985	13,607	2,876	7,998
2019	65,298	18,652	18,472	8,342	17,655	8,556	12,620	4,209	34,930	12,170	11,117	2,012	6,843
2020	56,607	15,620	17,987	7,351	23,284	10,427	14,253	3,906	43,643	11,778	9,384	1,898	6,816
2021	84,812	27,299	15,266	6,176	19,704	9,699	15,748	5,092	28,693	8,032	8,123	1,692	4,770
2022	75,160	26,649	12,943	5,704	18,304	9,208	16,449	5,541	31,431	9,875	7,214	1,402	1,495
2023	30,837	24,528	7,900	3,547	5,131	14,416	14,638	5,431	28,786	10,659	8,425	1,777	1,434

<sup>1</sup> Includes the catches of—Incluye las capturas de: BLZ, CHL, COK, CRI, ECU, EU(ESP), GTM, HND, MEX, NIC, PAN, EU(PRT), SLV, VUT

**TABLE A-10.** Numbers and well volumes, in cubic meters, of purse-seine and pole-and line vessels of the EPO tuna fleet. The data for 2023 and 2024 are preliminary. (\* The data provided for pole and line vessels for these years are reported combined under total catch (OTR; Table A-2a) because there is no information available by individual vessel; therefore, the total number of PL vessels and well volume is not available.)

**TABLA A-10.** Número y volumen de bodega, en metros cúbicos, de buques cerqueros y cañeros de la flota atunera del OPO. Los datos de 2023 y 2024 son preliminares. (\* Los datos de buques cañeros de estos años se presentan combinados bajo captura total (OTR; Tabla A-2a) porque no se dispone de información por buque individual; por lo tanto, no se dispone del número total de buques cañeros ni del volumen de bodega).

	PS		LP		Total	
	No.	Vol. (m <sup>3</sup> )	No.	Vol. (m <sup>3</sup> )	No.	Vol. (m <sup>3</sup> )
<b>1995</b>	175	123,798	20	1,784	195	125,582
<b>1996</b>	180	130,774	17	1,646	197	132,420
<b>1997</b>	194	147,926	23	2,127	217	150,053
<b>1998</b>	202	164,956	22	2,216	224	167,172
<b>1999</b>	208	178,724	14	1,642	222	180,366
<b>2000</b>	205	180,679	12	1,220	217	181,899
<b>2001</b>	204	189,088	10	1,259	214	190,347
<b>2002</b>	218	199,870	6	921	224	200,791
<b>2003</b>	214	202,381	3	338	217	202,719
<b>2004</b>	218	206,473	3	338	221	206,811
<b>2005</b>	220	212,419	4	498	224	212,917
<b>2006</b>	225	225,166	4	498	229	225,664
<b>2007</b>	227	225,359	4	380	231	225,739
<b>2008</b>	219	223,804	4	380	223	224,184
<b>2009</b>	221	224,632	4	380	225	225,012
<b>2010</b>	202	210,025	3	255	205	210,280
<b>2011</b>	208	213,237	3	339	211	213,576
<b>2012</b>	209	217,687	4	464	213	218,151
<b>2013</b>	203	212,087	3	268	206	212,355
<b>2014</b>	226	230,379	2	226	228	230,605
<b>2015</b>	244	248,428	1	125	245	248,553
<b>2016</b>	250	261,474	*	*	250	261,474
<b>2017</b>	254	263,018	*	*	254	263,018
<b>2018</b>	261	263,666	*	*	261	263,666
<b>2019</b>	261	265,085	*	*	261	265,085
<b>2020</b>	242	241,331	*	*	242	241,331
<b>2021</b>	236	253,323	*	*	236	253,323
<b>2022</b>	239	253,071	*	*	239	253,071
<b>2023</b>	246	261,296	*	*	246	261,296
<b>2024</b>	238	260,573	*	*	238	260,573

**TABLE A-11a.** Estimates of the numbers and well volume (cubic meters) of purse-seine (PS) and pole-and-line (LP) vessels that fished in the EPO in 2023, by flag and gear. Each vessel is included in the total for each flag under which it fished during the year but is included only once in the “Grand total”; therefore, the grand total may not equal the sums of the individual flags.

**TABLA A-11a.** Estimaciones del número y volumen de bodega (metros cúbicos) de buques cerqueros (PS) y cañeros (LP) que pescaron en el OPO en 2023 por bandera y arte de pesca. Se incluye cada buque en los totales de cada bandera bajo la cual pescó durante el año, pero solamente una vez en el “Total general”; por consiguiente, los totales generales no equivalen necesariamente a las sumas de las banderas individuales.

Flag Bandera	Gear Arte	Well volume —Volumen de bodega (m³)					Total	
		<401	401-800	801-1300	1301-1800	>1800	No.	Vol. (m³)
		Number—Número						
COL	PS	1	2	7	3	-	13	14,590
ECU	PS	34	35	25	7	8	109	85,275
EU(ESP)	PS	-	-	-	-	4	4	9,330
MEX	PS	4	4	21	24	-	53	63,389
NIC	PS	-	-	2	1	1	4	6,099
PAN	PS	-	2	6	8	5	21	30,035
PER	PS	-	2	-	-	-	2	1,143
SLV	PS	-	-	-	1	2	3	6,202
USA	PS	9	-	1	8	5	23	25,386
VEN	PS	-	-	7	6	1	14	19,847
Grand total— Total general	PS	48	45	69	58	26	246	
Well volume—Volumen de bodega (m³)								
Grand total— Total general	PS	12,359	26,196	78,474	88,806	55,461		261,296

- : none—ninguno

**TABLE A-11b.** Estimates of the numbers and well volumes (cubic meters) of purse-seine (PS) vessels that fished in the EPO in 2024, by flag and gear. Each vessel is included in the total for each flag under which it fished during the year but is included only once in the “Grand total”; therefore, the grand total may not equal the sums of the individual flags.

**TABLA A-11b.** Estimaciones del número y volumen de bodega (metros cúbicos) de buques cerqueros (PS) que pescaron en el OPO en 2024, por bandera y arte de pesca. Se incluye cada buque en los totales de cada bandera bajo la cual pescó durante el año, pero solamente una vez en el “Total general”; por consiguiente, los totales generales no equivalen necesariamente a las sumas de las banderas individuales.

Flag Bandera	Gear Arte	Well volume —Volumen de bodega (m³)					Total	
		<401	401-800	801-1300	1301-1800	>1800	No.	Vol. (m³)
		Number—Número						
COL	PS	2	2	7	3	-	14	14,860
ECU	PS	33	36	27	9	8	113	91,171
EU(ESP)	PS	-	-	-	-	4	4	9,330
MEX	PS	3	4	20	23	-	50	61,043
NIC	PS	-	-	2	1	1	4	6,099
PAN	PS	-	-	6	8	6	20	31,002
PER	PS	-	5	-	-	-	5	2,686
SLV	PS	-	-	-	1	2	3	6,202
USA	PS	1	-	1	8	5	15	23,233
VEN	PS	-	-	3	6	1	10	14,947
Grand total— Total general	PS	39	47	66	59	27	238	
Well volume—Volumen de bodega (m³)								
Grand total— Total general	PS	11,215	27,280	75,006	89,931	57,141		260,573

- : none—ninguno



**TABLE A-12.** Minimum, maximum, and average capacity, in thousands of cubic meters, of purse-seine and pole-and-line vessels at sea in the EPO during 2014-2023 and in 2024, by month.

**TABLA A-12.** Capacidad mínima, máxima, y media, en miles de metros cúbicos, de los buques cerqueros y cañeros en el mar en el OPO durante 2014-2023 y en 2024, por mes.

Month Mes	2014-2023			2024
	Min	Max	Ave.-Prom.	
1	86.9	130.4	109.3	116.4
2	154.2	192.3	179.6	180.8
3	147.9	189.7	171.7	164.1
4	151.2	200.8	172.5	160.2
5	150.6	196.9	174.1	165.7
6	156.3	198.6	176.7	152.1
7	161.4	200.4	174.0	155.8
8	107.6	148.7	121.6	116.7
9	102.2	142.2	119.1	105.4
10	141.7	188.9	169.4	153.9
11	93.5	135.9	115.4	99.8
12	56.3	90.4	66.7	67.1
Ave.-Prom.	125.8	167.9	145.8	136.5