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THE FISHERY FOR TUNAS AND BILLFISHES IN THE
EASTERN PACIFIC OCEAN IN 2014

INTRODUCTION

This report provides a summary of the fishery for tunas in the eastern Pacific Ocean (EPO), summary assessments of the major stocks of tunas and billfishes that are exploited in the fishery, and an evaluation of the pelagic ecosystem in the EPO, in 2014.

The report is based on data available to the IATTC staff in March 2015. As a result, some of the data tables for 2014 are incomplete, and all data for 2013 and 2014 should be considered preliminary.

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:	Fishing gears:
ALB Albacore tuna (<i>Thunnus alalunga</i>)	FPN Trap
BET Bigeye tuna (<i>Thunnus obesus</i>)	GN Gillnet
BIL Unidentified istiophorid billfishes	HAR Harpoon
BKJ Black skipjack (<i>Euthynnus lineatus</i>)	LL Longline
BLM Black marlin (<i>Makaira indica</i>)	LP Pole and line
BUM Blue marlin (<i>Makaira nigricans</i>)	LTL Troll
BZX Bonito (<i>Sarda</i> spp.)	LX Hook and line
CAR Chondrichthyes, cartilaginous fishes nei ¹	OTR Other ²
CGX Carangids (Carangidae)	NK Unknown
DOX Dorado (<i>Coryphaena</i> spp.)	PS Purse seine
MLS Striped marlin (<i>Kajikia audax</i>)	RG Recreational
MZZ Osteichthyes, marine fishes nei	TX Trawl
PBF Pacific bluefin tuna (<i>Thunnus orientalis</i>)	Ocean areas:
SFA Indo-Pacific sailfish (<i>Istiophorus platypterus</i>)	EPO Eastern Pacific Ocean
SKJ Skipjack tuna (<i>Katsuwonus pelamis</i>)	WCPO Western and Central Pacific Ocean
SKX Unidentified elasmobranchs	Set types:
SSP Shortbill spearfish (<i>Tetrapturus angustirostris</i>)	DEL Dolphin
SWO Swordfish (<i>Xiphias gladius</i>)	NOA Unassociated school
TUN Unidentified tunas	OBJ Floating object
YFT Yellowfin tuna (<i>Thunnus albacares</i>)	LOG: Flotsam
	FAD: Fish-aggregating device

¹ not elsewhere included

² Used to group known gear types

Flags:

IATTC Members & cooperating non-Members

BLZ	Belize
BOL	Bolivia
CAN	Canada
CHN	China
COL	Colombia
CRI	Costa Rica
ECU	Ecuador
EU	European Union
FRA	France
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

Other flags

CHL	Chile
COK	Cook Islands
CYM	Cayman Islands
CYP	Cyprus
FSM	Federated States of Micronesia
NZL	New Zealand
PRT	Portugal
RUS	Russia
SEN	Senegal
VCT	St. Vincent and the Grenadines
UNK	Unknown

Stock assessment:

<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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This document summarizes the fisheries for species covered by the IATTC Convention (tunas and other fishes caught by tuna-fishing vessels) in the eastern Pacific Ocean (EPO). The most important of these are the scombrids (Family Scombridae), which include tunas, bonitos, seerfishes, and mackerels. The principal species of tunas caught are yellowfin, skipjack, bigeye, and albacore, with lesser catches of Pacific bluefin, black skipjack, and frigate and bullet tunas; other scombrids, such as bonitos and wahoo, are also caught.

This document also covers other species caught by tuna-fishing vessels in the EPO: billfishes (swordfish, marlins, shortbill spearfish, and sailfish) carangids (yellowtail, rainbow runner, and jack mackerel), dorado, elasmobranchs (sharks, rays, and skates), and other fishes.

Most of the catches are made by the purse-seine and longline fleets; the pole-and-line fleet and various artisanal and recreational fisheries account for a small percentage of the total catches.

Detailed data are available for the purse-seine and pole-and-line fisheries; the data for the longline, artisanal, and recreational fisheries are incomplete.

The IATTC [Regional Vessel Register](#) contains details of vessels authorized to fish for tunas in the EPO. The IATTC has detailed records of most of the purse-seine and pole-and-line vessels that fish for yellowfin, skipjack, bigeye, and/or Pacific bluefin tuna in the EPO. The Register is incomplete for small vessels. It contains records for most large (overall length >24 m) longline vessels that fish in the EPO and in other areas.

The data in this report are derived from various sources, including vessel logbooks, observer data, unloading records provided by canners and other processors, export and import records, reports from governments and other entities, and estimates derived from the species and size composition sampling program.

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

Estimating the total catch of a species of fish is difficult, for various reasons. Some fish are discarded at sea, and the data for some gear types are incomplete. Data for fish discarded at sea by purse-seine vessels with carrying capacities greater than 363 metric tons (t) have been collected by observers since 1993, which allows for better estimation of the total amounts of fish caught by the purse-seine fleet. Estimates of the total amount of the catch that is landed (hereafter referred to as the retained catch) are based principally on data from unloadings. Beginning with Fishery Status Report 3, which reports on the fishery in 2004, the unloading data for purse-seine and pole-and-line vessels have been adjusted, based on the species composition estimates for yellowfin, skipjack, and bigeye tunas. The current species composition sampling program, described in Section 1.3.1, began in 2000, so the catch data for 2000-2014 are adjusted, based on estimates by flag for each year. The catch data for the previous years were adjusted by applying the average ratio by species from the 2000-2004 estimates, by flag, and summing over all flags. This has tended to increase the estimated catches of bigeye and decrease those of yellowfin and/or skipjack. These adjustments are all preliminary, and may be improved in the future. All of the purse-seine and pole-and-line data for 2013 and 2014 are preliminary.

Data on the retained catches of most of the larger longline vessels are obtained from the governments of the nations that fish for tunas in the EPO. Longline vessels, particularly the larger ones, direct their effort primarily at bigeye, yellowfin, albacore, or swordfish. Data from smaller longliners, artisanal vessels, and other vessels that fish for tunas, billfishes, dorado, and sharks in the EPO were gathered either directly from the governments, from logbooks, or from reports published by the governments. Data for the western and central Pacific Ocean (WCPO) were provided by the Ocean Fisheries Programme of the Secretariat of the Pacific Community (SPC). All data for catches in the EPO by longlines and other gears for 2013 and 2014 are preliminary.

The data from all of the above sources are compiled in a database by the IATTC staff and summarized in this report. In recent years, the IATTC staff has increased its effort toward compiling data on the catches of tunas, billfishes, and other species caught by other gear types, such as trollers, harpooners, gillnetters, and recreational vessels. The estimated total catches from all sources mentioned above of 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 1985-2014 are shown in Tables A-2a-c. The catches of yellowfin, bigeye, and skipjack tunas, by gear and flag, during 1985-2014 are shown in Tables A-3a-e, and the purse-seine and pole-and-line catches of tunas and bonitos during 2013-2014 are summarized by flag in Table A-4. There were no restrictions on fishing for tunas in the EPO during 1988-1997, but the catches of most species have been affected by restrictions on fishing during some or all of the last six months of 1998-2014. Furthermore, regulations placed on purse-seine vessels directing their effort at tunas associated with dolphins have affected the way these vessels operate, especially since the late 1980s, as discussed in Section 3.

The catches have also been affected by climate perturbations, such as the major El Niño events that occurred during 1982-1983 and 1997-1998. These events made the fish less vulnerable to capture by purse seiners due to the greater depth of the thermocline, but had no apparent effect on the longline catches. Yellowfin recruitment tends to be greater after an El Niño event.

1.1. Catches by species

1.1.1. Yellowfin tuna

The annual catches of yellowfin during 1985-2014 are shown in Table A-1. The EPO totals for 1993-2014 include discards from purse-seine vessels with carrying capacities greater than 363 t. The El Niño event of 1982-1983 led to a reduction in the catches in those years, whereas the catches in the WCPO were apparently not affected. Although the El Niño episode of 1997-1998 was greater in scope, it did not have the same effect on the yellowfin catches in the EPO. In the EPO, catches increased steadily to a high of 443 thousand t in 2002; they decreased substantially in 2004, reaching their lowest level during 2006-2008, at only 44% of the highest catches of the 2001-2003 period. The 2014 catch of 234 thousand t is equal to the average for the current 5 year period. In the WCPO, the catches of yellowfin increased steadily to a high of 604 thousand t in 1998, then settled into a range of 468 to 590 thousand t during 1999-2013.

The annual retained catches of yellowfin in the EPO by purse-seine and pole-and-line vessels during 1985-2014 are shown in Table A-2a. The average annual retained catch during 1999-2013 was 260 thousand t (range: 167 to 413 thousand t). The preliminary estimate of the retained catch in 2014, 233 thousand t, was 7% larger than that of 2013, but 10% less than the average for 1999-2013. The average amount of yellowfin discarded at sea during 1999-2013 was about 1% of the total purse-seine catch (retained catch plus discards) of yellowfin (range: 0.1 to 2.4%) (Table A-2a).

The annual retained catches of yellowfin in the EPO by longliners during 1985-2014 are shown in Table A-2a. During 1990-2003 catches averaged about 23 thousand t (range: 12 to 35 thousand t), or about 8% of the total retained catches of yellowfin. Longline catches declined sharply beginning in 2005, averaging

10 thousand t per year (range: 8 to 13 thousand t), or about 4% of the total retained catches, through 2013. The lower longline catch total for 2014 is due to incomplete data for the year. Yellowfin are also caught by recreational vessels, as incidental catch in gillnets, and by artisanal fisheries. Estimates of these catches are shown in Table A-2a, under “Other gears” (OTR); during 1999-2013 they averaged about 1 thousand t.

1.1.2. Skipjack tuna

The annual catches of skipjack during 1985-2014 are shown in Table A-1. Most of the skipjack catch in the Pacific Ocean is taken in the WCPO. Prior to 1999, WCPO skipjack catches averaged about 900 thousand t. Beginning in 1999, catches increased steadily from 1.1 million t to an all-time high of 1.8 million t in 2013. In the EPO, the greatest yearly catches occurred between 2003 and 2014, with the highest catch of 309 thousand t in 2006, and a range from 153 to 309 thousand t.

The annual retained catches of skipjack in the EPO by purse-seine and pole-and-line vessels during 1985-2014 are shown in Table A-2a. During 1999-2013 the annual retained catch averaged 234 thousand t (range 144 to 297 thousand t). The preliminary estimate of the retained catch in 2014, 262 thousand t, is 12% greater than the average for 1999-2013, and 12% less than the record-high retained catch of 2008. Discards of skipjack at sea decreased each year during the period, from 11% in 2000 to a low of less than 1% in 2013. During the period about 5% of the total catch of the species was discarded at sea (Table A-2a).

Small amounts of EPO skipjack are caught with longlines and other gears (Table A-2a).

1.1.3. Bigeye tuna

The annual catches of bigeye during 1985-2014 are shown in Table A-1. Overall, the catches in both the EPO and WCPO have increased, but with considerable fluctuations. In the EPO, the average catch for the period was 103 thousand t, with a low of 72 thousand t in 1985 and a high of 149 thousand t in 2000. In the WCPO the catches of bigeye increased to more than 77 thousand t during the late 1970s, decreased during the early 1980s, and then increased steadily to 111 thousand t in 1996. In 1997 the total jumped to 154 thousand t, and reached a high of 180 thousand t in 2004. Since 2004 the catch has fluctuated between 128 and 153 thousand t.

The annual retained catches of bigeye in the EPO by purse-seine and pole-and-line vessels during 1985-2014 are shown in Table A-2a. During 1993-1994 the use of fish-aggregating devices (FADs), placed in the water by fishermen to aggregate tunas, nearly doubled, and continued to increase in the following years. This resulted in greater catches of bigeye by purse-seine vessels. Before this increase, the annual retained catch of bigeye taken by purse-seine vessels in the EPO was about 5 thousand t (Table A-2a). As a result of the development of the FAD fishery, it increased from 35 thousand t in 1994 to between 44 and 95 thousand t during 1995-2013. The preliminary estimate of the retained catch in the EPO in 2014 is 60 thousand t.

During 1999-2013 the purse-seine catch of the species discarded at sea has steadily decreased, from 9% in 1999 to less than 1% in 2013, for an average discard rate of about 2.5%. No bigeye catch has been reported by pole-and-line vessels in recent years.

From 1985 to 1993, before the increase in the use of FADs, longliners caught an average of 95% of the bigeye in the EPO (average 86 thousand t; range; 66 to 104 thousand t). During 1999-2013 this average dropped to 39%, with a low of 25% in 2008 (average: 42 thousand t; range: 26 to 74 thousand t) (Table A-2a). The preliminary estimate of the longline catch in the EPO in 2014 is 35 thousand t (Table A-2a).

Small amounts of bigeye are caught in the EPO by other gears, as shown in Table A-2a.

1.1.4. Bluefin tuna

The catches of Pacific bluefin in the EPO during 1985-2014, by gear, are shown in Table A-2a. Purse-seine and pole-and-line vessels accounted for over 94% of the total EPO retained catch during 1999-2013.

During this period the annual retained catch of bluefin in the EPO by purse-seine vessels averaged 4.6 thousand t (range 1.2 to 9.9 thousand t). The preliminary estimate of the retained purse-seine catch of bluefin in 2014, 4.9 thousand t, is slightly greater than the average for 1999-2013 (Table A-2a).

The catches of Pacific Bluefin in the entire Pacific Ocean, by flag and gear, are shown in Table A-5a. The data, which were obtained from the International Scientific Committee for Tuna and Tuna-like Species in the North Pacific Ocean (ISC), are reported by fishing nation or entity, regardless of the area of the Pacific Ocean in which the fish were caught.

Catches of Pacific bluefin by recreational gear in the EPO are reported in numbers of individual tuna caught, whereas all other gears report catch in weight (metric tons). These numbers are then converted to metric tons for inclusion in the EPO catch totals for all gears. The original catch data for 1985-2014, in numbers of fish, are presented in Table A-5b.

1.1.5. Albacore tuna

The catches of albacore in the entire Pacific Ocean, by gear and area (north and south of the equator) are shown in Tables A-6a and A-6b. The catches of albacore in the EPO, by gear, are shown in Table A-2a. A significant portion of the albacore catch is taken by troll gear, included under “Other gears” (OTR) in Table A-2a. The catch data were obtained from IATTC data for the EPO and from data compiled by the SPC for the WCPO.

1.1.6. Other tunas and tuna-like species

While yellowfin, skipjack, and bigeye tunas comprise the most significant portion of the retained catches of the purse-seine and pole-and-line fleets in the EPO, other tunas and tuna-like species, such as black skipjack, bonito, wahoo, and frigate and bullet tunas, contribute to the overall harvest in this area. The estimated annual retained and discarded catches of these species during 1985-2014 are presented in Table A-2a. The catches reported in the “unidentified tunas” category (TUN) in Table A-2a contain some catches reported by species (frigate or bullet tunas) along with the unidentified tunas. The total retained catch of these other species by these fisheries was 7.0 thousand t in 2014, which is greater than the 1999-2013 average retained catch of 6.4 thousand t (range: 500 t to 19 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.

1.1.7. Billfishes

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

In general, dolphins, sea turtles, whale sharks, and small fish are the only animals captured in the purse-seine fishery that are released alive. In previous versions of this report, all billfishes caught in that fishery were classified as discarded dead. When most of the individuals of species caught incidentally are discarded, the difference between catches and discards is not significant for those species, but as the rate of retention of species formerly discarded increases, part of the bycatch becomes catch, and the distinction becomes important. As a result of a review in 2010, this has been clarified in Table A-2b with the addition of a column for retained catch next to the column for discards.

Swordfish are caught in the EPO with large-scale and artisanal longline gear, gillnets, harpoons, and occasionally with recreational gear. During 1999-2008 the longline catch of swordfish averaged 12 thousand t, but during 2011-2013 the average almost doubled to over 22 thousand t. It is not clear whether this is due to increased abundance of swordfish or increased effort directed toward that species.

Other billfishes are caught with large-scale and artisanal longline gear and recreational gear. The average annual longline catches of blue marlin and striped marlin during 1999-2013 were about 4.1 thousand and 1.9 thousand t, respectively. Smaller amounts of other billfishes are taken by longline.

Unfortunately, little information is available on the recreational catches of billfishes, but they are believed to be substantially less than the commercial catches for all species.

Small amounts of billfishes are caught by purse seiners, some are retained, and others are considered to be discarded although some may be landed but not reported. These data are also included in Table A-2b. During 1999-2013 purse seiners accounted about 1% of the total catch of billfishes in the EPO.

1.1.8. Other species

Data on the catches and discards of carangids (yellowtail, rainbow runner, and jack mackerel), dorado, elasmobranchs (sharks, rays, and skates), and other fishes caught in the EPO are shown in Table A-2c.

Bycatches in the purse-seine fishery are reported in Table A-2c as either retained or discarded. A revision was made to the allocation of catches into those categories as a result of a review in 2010.

Dorado are unloaded mainly in ports in Central and South America. Although the reported catches have been as high as 71 thousand t in recent years, the fishing gears used are often not reported.

1.2. Distributions of the catches of tunas

1.2.1. Purse-seine catches

The average annual distributions of the purse-seine catches of yellowfin, skipjack, and bigeye, by set type, in the EPO during 2009-2013, are shown in Figures A-1a, A-2a, and A-3a, and preliminary estimates for 2014 are shown in Figures A-1b, A-2b, and A-3b.

The majority of the yellowfin catches in 2014 were taken in sets associated with dolphins from 3 general areas: between 5°N and 15°N west of 115°W longitude, north of 15°N and east of 115°W longitude, and between 5°N and 15°N east of 105°W longitude. Offshore catches of yellowfin in association with dolphins were found further south than in the previous year.

Yellowfin catches on unassociated schools in 2014 decreased by 27% from the previous year, mainly due to a substantial decrease in catch in the inshore areas off southern Mexico. Inshore catches around the equator were lower than the 2009-2013 average. Smaller amounts of yellowfin were caught south of the equator throughout the EPO, mostly in association with floating objects.

Inshore skipjack catches in 2014 were similar to those of previous years, though the percentage of catch in association with floating objects increased. Offshore catches of skipjack were almost exclusively in association with floating objects, and the overall 2014 offshore catches decreased from the previous year.

Bigeye are not often caught north of about 7°N, and the catches of bigeye have decreased in the inshore areas off South America for several years. With the development of the fishery for tunas associated with FADs, the relative importance of the inshore areas has decreased, while that of the offshore areas has increased. Most of the bigeye catches are taken in sets on FADs between 5°N and 5°S.

1.2.2. Longline catches

Data on the spatial and temporal distributions of the catches in the EPO by the distant-water longline fleets of China, French Polynesia, Japan, the Republic of Korea, Spain, Chinese Taipei, the United States, and Vanuatu are maintained in databases of the IATTC. 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 tunas in the Pacific Ocean by Chinese, Japanese, Korean, and Chinese Taipei longline vessels during 2009-2013 are shown in Figure A-4. Data for the Japanese longline fishery in the EPO during 1956-2007 are available in IATTC Bulletins describing that fishery.

1.3. Size compositions of the catches of tunas

1.3.1. Purse-seine, pole-and-line, and recreational fisheries

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, including the integrated modeling that the staff has employed during the last several years. The results of such studies have been described in several IATTC Bulletins, in its Annual Reports for 1954-2002, and in its Stock Assessment Reports.

Length-frequency samples of yellowfin, skipjack, bigeye, Pacific bluefin, and, occasionally, black skipjack from the catches of purse-seine, pole-and-line, and recreational vessels in the EPO are collected by IATTC personnel at ports of landing in Ecuador, Mexico, Panama, the USA, and Venezuela. The catches of yellowfin and skipjack were first sampled in 1954, bluefin in 1973, and bigeye in 1975. Sampling has continued to the present.

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](#). Briefly, the fish in a well of a purse-seine or pole-and-line vessel are selected for sampling only if all the fish in the well were caught during the same calendar month, in the same type of set (floating-object, unassociated school, or dolphin), and in the same sampling area. These data are then categorized by fishery (Figure A-5), based on the staff's most recent stock assessments.

Data for fish caught during the 2009-2014 period are presented in this report. Two sets of length-frequency histograms are presented for each species, except bluefin and black skipjack; the first shows the data by stratum (gear type, set type, and area) for 2014, and the second shows the combined data for each year of the 2009-2014 period. For bluefin, the histograms show the 2007-2012 catches by commercial and recreational gear combined. For black skipjack, the histograms show the 2009-2014 catches by commercial gear. Only a small amount of catch was taken by pole-and-line vessels in 2013 and 2014, and no samples were obtained from these vessels.

For stock assessments of yellowfin, nine purse-seine fisheries (four associated with floating objects, three associated with dolphins, and two unassociated) and one pole-and-line fishery are defined (Figure A-5). The last fishery includes all 13 sampling areas. Of the 815 wells sampled during 2014, 625 contained yellowfin. The estimated size compositions of the fish caught are shown in Figure A-6a. The majority of the yellowfin catch was taken in sets associated with dolphins in the Northern and Inshore dolphin fisheries throughout the year. Most of the larger yellowfin (>100 cm) were caught in the Northern dolphin fishery in all four quarters, and in the Inshore dolphin fishery in the first and second quarters. Smaller yellowfin (<100 cm) were caught primarily in the Inshore floating object fishery during the first quarter.

The estimated size compositions of the yellowfin caught by all fisheries combined during 2009-2014 are shown in Figure A-6b. The average weight of the yellowfin caught in 2014 (9.8 kg) was about the same as the previous year, but much less than the high for the 6 year period of 14.4 kg in 2009.

For stock assessments of skipjack, seven purse-seine fisheries (four associated with floating objects, two unassociated, one associated with dolphins) and one pole-and-line fishery are defined (Figure A-5). The last two fisheries include all 13 sampling areas. Of the 815 wells sampled, 479 contained skipjack. The estimated size compositions of the fish caught during 2014 are shown in Figure A-7a. Large amounts of skipjack in the 40- to 60-cm size range were caught in the Equatorial floating-object fishery in the third and fourth quarters, in the Inshore floating-object fishery in the first, second and third quarters, in the Southern floating-object fishery throughout the year, and in the Southern unassociated fishery during the first quarter. Larger skipjack in the 60- to 70-cm size range were taken in the Equatorial floating-object fishery during the third and fourth quarters, in the Southern floating-object fishery during the fourth quarter, and in the Southern unassociated fishery during the second and fourth quarters.

The estimated size compositions of the skipjack caught by all fisheries combined during 2009-2014 are shown in Figure A-7b. The average weight of skipjack in 2014 (2.2 kg) was equal to the average of the previous five years (range: 2.0 to 2.5 kg).

For stock assessments of bigeye, six purse-seine fisheries (four associated with floating objects, one

unassociated, one associated with dolphins) and one pole-and-line fishery are defined (Figure A-5). The last three fisheries include all 13 sampling areas. Of the 815 wells sampled, 159 contained bigeye. The estimated size compositions of the fish caught during 2014 are shown in Figure A-8a. Bigeye in the 40- to 100- size range was taken primarily in the Northern floating-object fishery during the second and fourth quarters, and in the Southern floating-object fishery in the third and fourth quarters. Larger bigeye (>100 cm) were caught primarily in the Equatorial floating-object fishery in the second and fourth quarters, and in the Southern floating-object fishery in the third and fourth quarters.

The estimated size compositions of bigeye caught by all fisheries combined during 2009-2014 are shown in Figure A-8b. The average weight of bigeye in 2014 (5.7 kg) was slightly higher than the previous year, but lower than the 8.0 and 6.7 kg recorded in 2011 and 2012, respectively.

Pacific bluefin are caught by purse-seine and recreational gear off California and Baja California from about 23°N to 35°N, with most of the catch being taken during May through October. During 2012 bluefin were caught between 28°N and 32°N from June through August. The majority of the catches of bluefin by both commercial and recreational vessels were taken during July and August. Prior to 2004, the sizes of the fish in the commercial and recreational catches have been reported separately. During 2004-2012, however, small sample sizes made it infeasible to estimate the size compositions separately. Therefore, the sizes of the fish in the commercial and recreational catches of bluefin were combined for each year of the 2004-2012 period. The average weight of the fish caught during 2012 (14.2 kg) was less than that of 2011 (15.4 kg), but very close to the average weights in 2009 and 2010. The estimated size compositions are shown in Figure A-9. Prior to 2013, IATTC staff collected length-frequency samples from recreational vessels with landings in San Diego and from purse seiners. Beginning in 2013, sampling of recreational vessels was taken over by the U.S. National Marine Fisheries Service (NMFS). Very few samples were collected from commercial purse-seiners in 2013 and 2014. The size composition estimates for bluefin will be updated after development of a methodology that will incorporate the changes in sampling.

Black skipjack are caught incidentally by fishermen who direct their effort toward yellowfin, skipjack, and bigeye tuna. The demand for this species is low, so most of the catches are discarded at sea, but small amounts, mixed with the more desirable species, are sometimes retained. The estimated size compositions for each year of the 2009-2014 period are shown in Figure A-10.

1.3.2. Longline fishery

The estimated size compositions of the catches of yellowfin and bigeye by the Japanese longline fishery in the EPO during 2009-2013 are shown in Figures A-11 and A-12. The average weight of yellowfin in 2013 (61.3 kg) was considerably greater than the previous 4 years (44.7 to 56.3 kg). The average weight of bigeye in 2013 was consistent with the previous 4 years at 46.3 kg. Information on the size compositions of fish caught by the Japanese longline fishery in the EPO during 1958-2008 is available in IATTC Bulletins describing that fishery.

1.4. Catches of tunas and bonitos, by flag and gear

The annual retained catches of tunas and bonitos in the EPO during 1985-2014, by flag and gear, are shown in Tables A-3a-e. These tables include all of the known catches of tunas and bonitos compiled from various sources, including vessel logbooks, observer data, unloading records provided by canners and other processors, export and import records, estimates derived from the species and size composition sampling program, reports from governments and other entities, and estimates derived from the species- and size-composition sampling program. Similar information on tunas and bonitos prior to 2001, and historical data for tunas, billfishes, sharks, carangids, dorado, and miscellaneous fishes are available on the [IATTC website](#). The purse-seine catches of tunas and bonitos in 2013 and 2014, by flag, are summarized in Table A-4. Of the 566 thousand t of tunas and bonitos caught in 2014, 45% were caught by Ecuadorian vessels, and 24% by Mexican vessels. Other countries with significant catches of tunas and bonitos in the EPO included Panama (9 %), Venezuela (7%), and Colombia (8%).

2. FISHING EFFORT

2.1. Purse seine

Estimates of the numbers of purse-seine sets of each type (associated with dolphins, associated with floating objects, and unassociated) in the EPO during the 1999-2014 period, and the retained catches of these sets, are shown in Table A-7 and in Figure 1. The estimates for vessels ≤ 363 t carrying capacity were calculated from logbook data in the IATTC statistical data base, and those for vessels >363 t carrying capacity were calculated from the observer data bases of the IATTC, Colombia, Ecuador, the European Union, Mexico, Nicaragua, Panama, the United States, and Venezuela. The greatest numbers of sets associated with floating objects and unassociated sets were made from the mid-1970s to the early 1980s. Despite opposition to fishing for tunas associated with dolphins and the refusal of U.S. canners to accept tunas caught during trips during which sets were made on dolphin-associated fish, the numbers of sets associated with dolphins decreased only moderately during the mid-1990s, and in 2003 were the greatest recorded.

There are two types of floating objects, flotsam and fish-aggregating devices (FADs). The occurrence of the former is unplanned from the point of view of the fishermen, whereas the latter are constructed by fishermen specifically for the purpose of attracting fish. The use of FADs increased sharply in 1994, with the percentage of FADs almost doubling from the previous year, to almost 60% of all floating-object sets. Their relative importance has continued to increase since then, reaching 97% of all floating-object sets by vessels with >363 t carrying capacity in recent years, as shown in Table A-8.

2.2. 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.

3. THE FLEETS

3.1. The purse-seine and pole-and-line fleets

The IATTC staff maintains detailed records of gear, flag, and fish-carrying capacity for most of the vessels that fish with purse-seine or pole-and-line gear for yellowfin, skipjack, bigeye, and/or Pacific bluefin tuna in the EPO. The fleet described here includes purse-seine and pole-and-line vessels that have fished all or part of the year in the EPO for any of these four species.

Historically, the owner's or builder's estimates of carrying capacities of individual vessels, in tons of fish, were used until landing records indicated that revision of these estimates was required.

Since 2000, the IATTC has used well volume, in cubic meters (m^3), instead of weight, in metric tons (t), to measure the carrying capacities of the vessels. Since a well can be loaded with different densities of fish, measuring carrying capacity in weight is subjective, as a load of fish packed into a well at a higher density weighs more than a load of fish packed at a lower density. Using volume as a measure of capacity eliminates this problem.

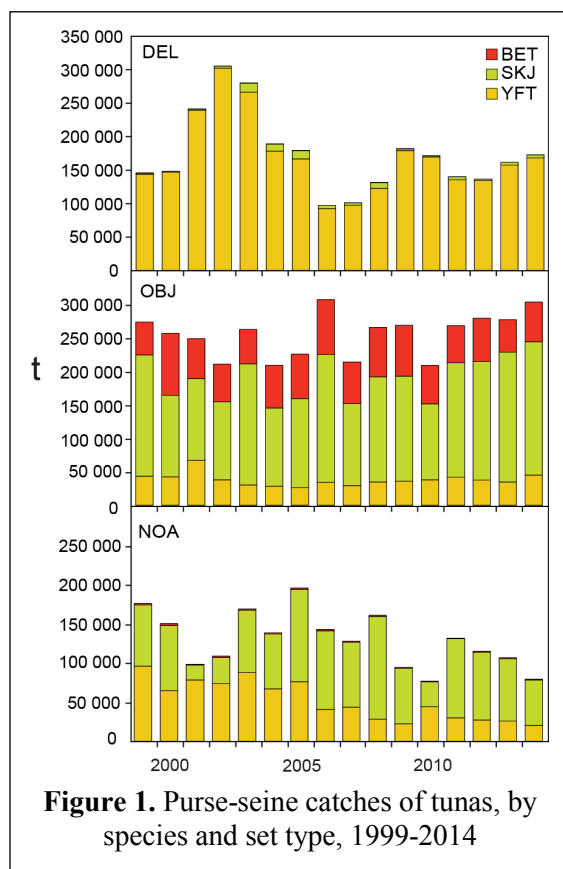


Figure 1. Purse-seine catches of tunas, by species and set type, 1999-2014

The IATTC staff began collecting capacity data by volume in 1999, but has not yet obtained this information for all vessels. For vessels for which reliable information on well volume is not available, the estimated capacity in metric tons was converted to cubic meters.

Until about 1960, fishing for tunas in the EPO was dominated by pole-and-line vessels operating in coastal regions and in the vicinity of offshore islands and banks. During the late 1950s and early 1960s most of the larger pole-and-line vessels were converted to purse seiners, and by 1961 the EPO fishery was dominated by these vessels.

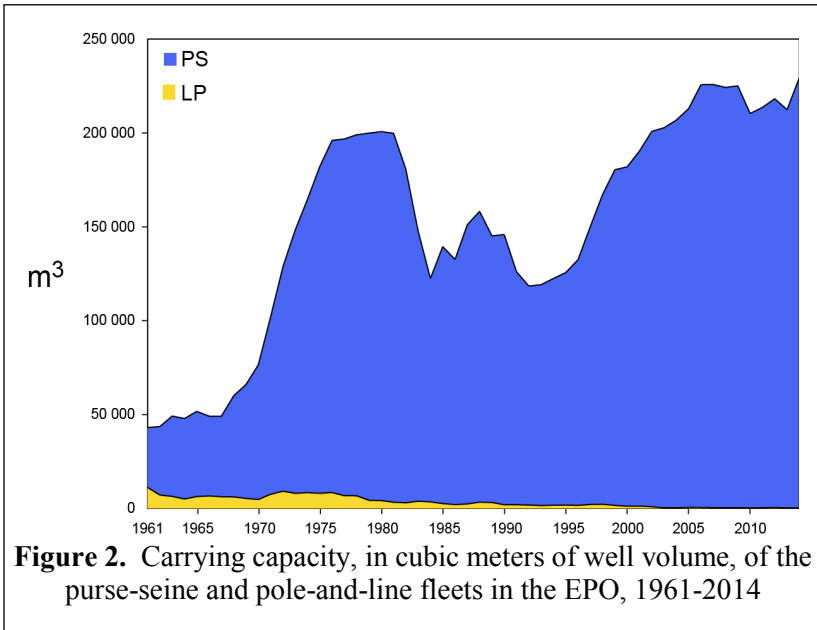


Figure 2. Carrying capacity, in cubic meters of well volume, of the purse-seine and pole-and-line fleets in the EPO, 1961-2014

From 1961 to 2014 the number of pole-and-line vessels decreased from 93 to 2, and their total well volume from about 11 thousand to about 226 m³. During the same period the number of purse-seine vessels increased from 125 to 217, and their total well volume from about 32 thousand to about 229 thousand m³, an average of about 1,055 m³ per vessel. An earlier peak in numbers and total well volume of purse seiners occurred from the mid-1970s to the early 1980s, when the number of vessels reached 282 and the total well volume about 195 thousand m³, an average of about 700 m³ per vessel (Table A-10; Figure 2).

The catch rates in the EPO were low during 1978-1981, due to concentration of fishing effort on small fish, and the situation was exacerbated by a major El Niño event, which began in mid-1982 and persisted until late 1983 and made the fish less vulnerable to capture. The total well volume of purse-seine and pole-and-line vessels then declined as vessels were deactivated or left the EPO to fish in other areas, primarily the western Pacific Ocean, and in 1984 it reached its lowest level since 1971, about 119 thousand m³. In early 1990 the U.S. tuna-canning industry adopted a policy of not purchasing tunas caught during trips during which sets on tunas associated with dolphins were made. This caused many U.S.-flag vessels to leave the EPO, with a consequent reduction in the fleet to about 117 thousand m³ in 1992. With increases in participation of vessels of other nations in the fishery, the total well volume has increased steadily since 1992, and in 2014 was 229 thousand m³.

The 2013 and preliminary 2014 data for numbers and total well volumes of purse-seine and pole-and-line vessels that fished for tunas in the EPO are shown in Tables A-11a and A-11b. During 2014, the fleet was dominated by vessels operating under the Ecuadorian and Mexican flags, with about 38% and 24%, respectively, of the total well volume; they were followed by Venezuela (9%), Panama (9%), Colombia (6%), European Union (Spain) (4%), Nicaragua (4%), El Salvador (3%), and Guatemala, Peru and United States (1% each). The sum of the percentages may not add up to 100% due to rounding.

The cumulative capacity at sea during 2014 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 2004-2013, and the 2014 values, are shown in Table A-12. The monthly values are averages of the VAS estimated at weekly intervals by the IATTC staff. The fishery was regulated during some or all of the last four months of 1999-2014, so the VAS values for September-December 2014 are not comparable to the average VAS values for those months of 1999-2014. The average VAS values for 2004-2013 and 2014 were 135

thousand m³ (62% of total capacity) and 135 thousand m³ (59% of total capacity), respectively.

3.2. Other fleets of the EPO

Information on other types of vessels that fish for tunas in the EPO is available in the IATTC's Regional Vessel Register, on the [IATTC website](#). The Register is incomplete for small vessels. 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 2014, or ever.

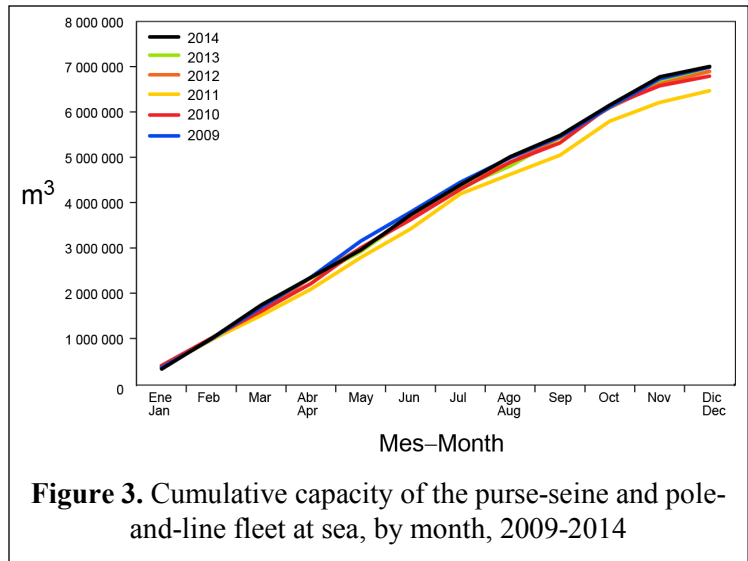


Figure 3. Cumulative capacity of the purse-seine and pole-and-line fleet at sea, by month, 2009-2014

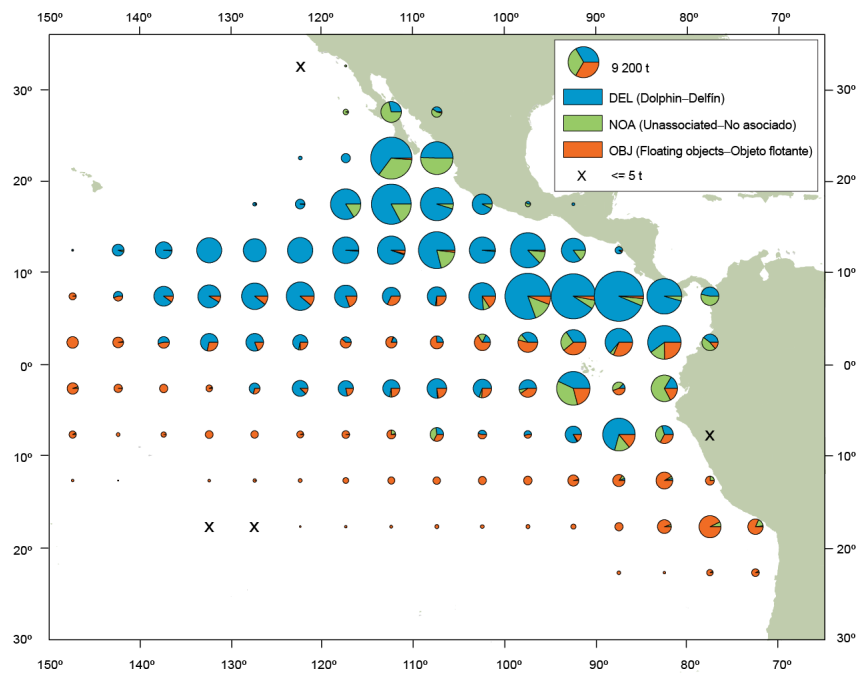


FIGURE A-1a. Average annual distributions of the purse-seine catches of yellowfin, by set type, 2009-2013. The sizes of the circles are proportional to the amounts of yellowfin caught in those 5° by 5° areas.
FIGURA A-1a. Distribución media anual de las capturas cerqueras de aleta amarilla, por tipo de lance, 2009-2013. El tamaño de cada círculo es proporcional a la cantidad de aleta amarilla capturado en la cuadrícula de 5° x 5° correspondiente.

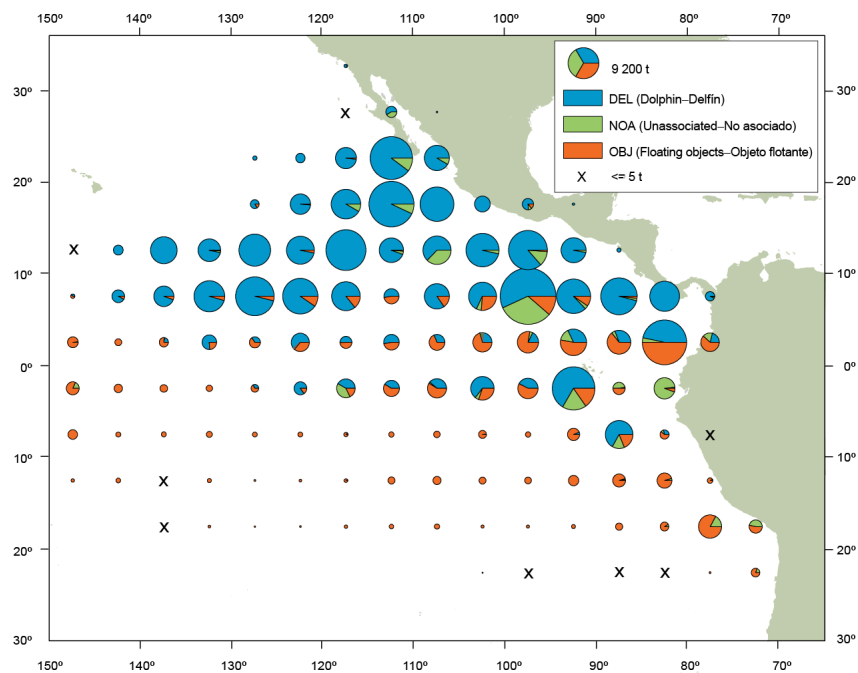


FIGURE A-1b. Annual distributions of the purse-seine catches of yellowfin, by set type, 2014. The sizes of the circles are proportional to the amounts of yellowfin caught in those 5° by 5° areas.
FIGURA A-1b. Distribución anual de las capturas cerqueras de aleta amarilla, por tipo de lance, 2014. El tamaño de cada círculo es proporcional a la cantidad de aleta amarilla capturado en la cuadrícula de 5° x 5° correspondiente.

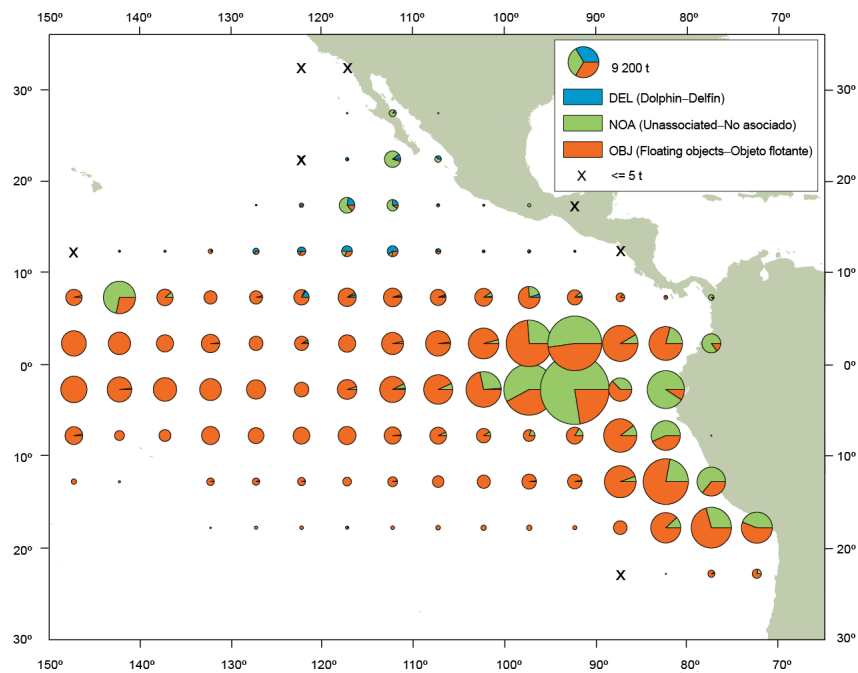


FIGURE A-2a. Average annual distributions of the purse-seine catches of skipjack, by set type, 2009-2013. The sizes of the circles are proportional to the amounts of skipjack caught in those 5° by 5° areas
FIGURA A-2a. Distribución media anual de las capturas cerqueras de barrilete, por tipo de lance, 2009-2013. El tamaño de cada círculo es proporcional a la cantidad de barrilete capturado en la cuadrícula de 5° x 5° correspondiente.

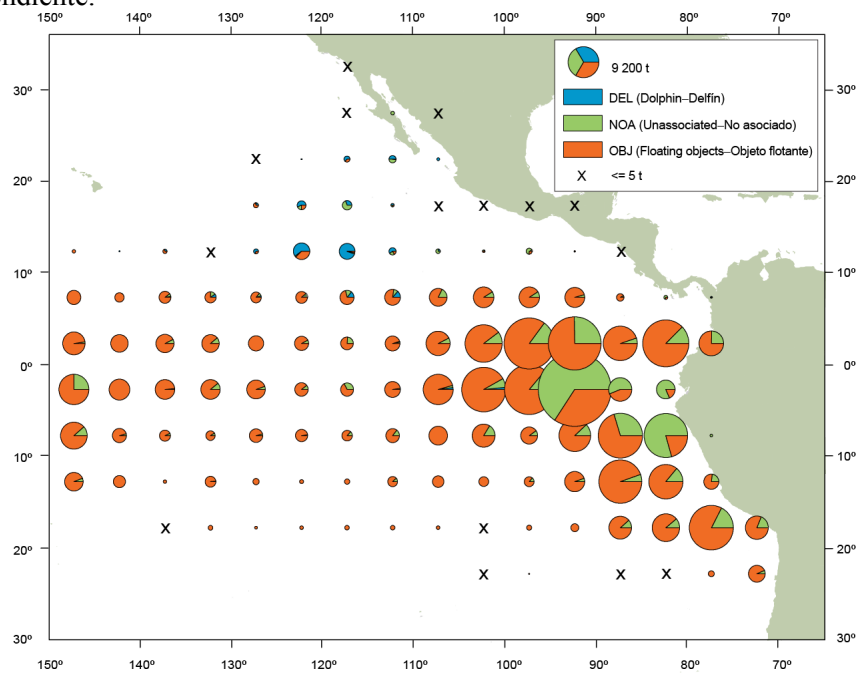


FIGURE A-2b. Annual distributions of the purse-seine catches of skipjack, by set type, 2014. The sizes of the circles are proportional to the amounts of skipjack caught in those 5° by 5° areas.
FIGURA A-2b. Distribución anual de las capturas cerqueras de barrilete, por tipo de lance, 2014. El tamaño de cada círculo es proporcional a la cantidad de barrilete capturado en la cuadrícula de 5° x 5° correspondiente.

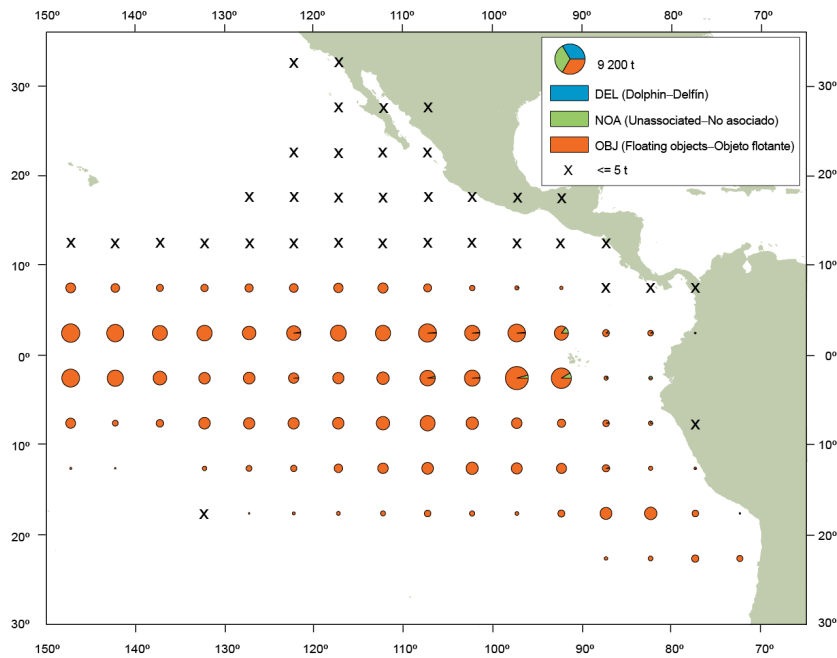


FIGURE A-3a. Average annual distributions of the purse-seine catches of bigeye, by set type, 2009-2013. The sizes of the circles are proportional to the amounts of bigeye caught in those 5° by 5° areas.

FIGURA A-3a. Distribución media anual de las capturas cerqueras de patudo, por tipo de lance, 2009-2013. El tamaño de cada círculo es proporcional a la cantidad de patudo capturado en la cuadrícula de 5° x 5° correspondiente.

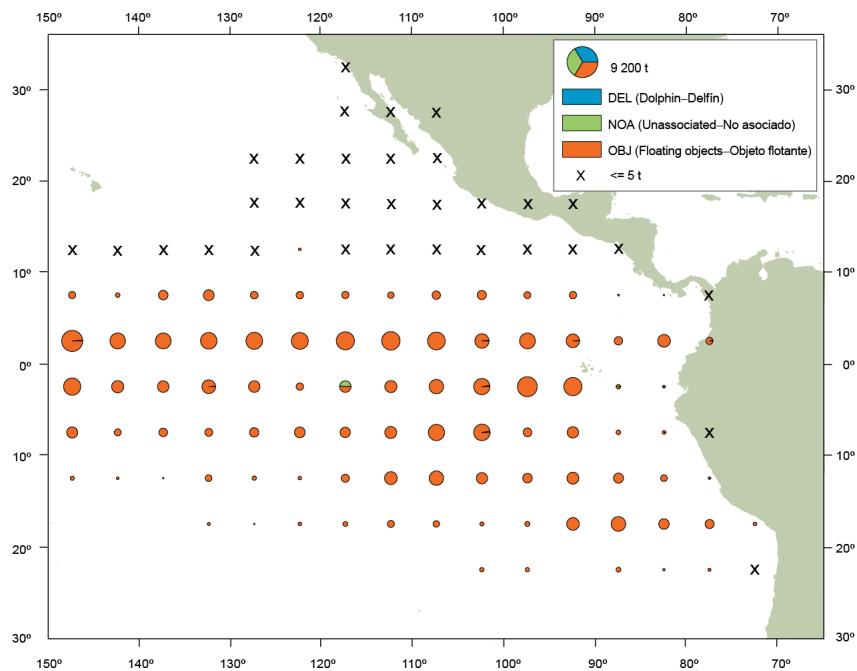


FIGURE A-3b. Annual distributions of the purse-seine catches of bigeye, by set type, 2014. The sizes of the circles are proportional to the amounts of bigeye caught in those 5° by 5° areas.

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

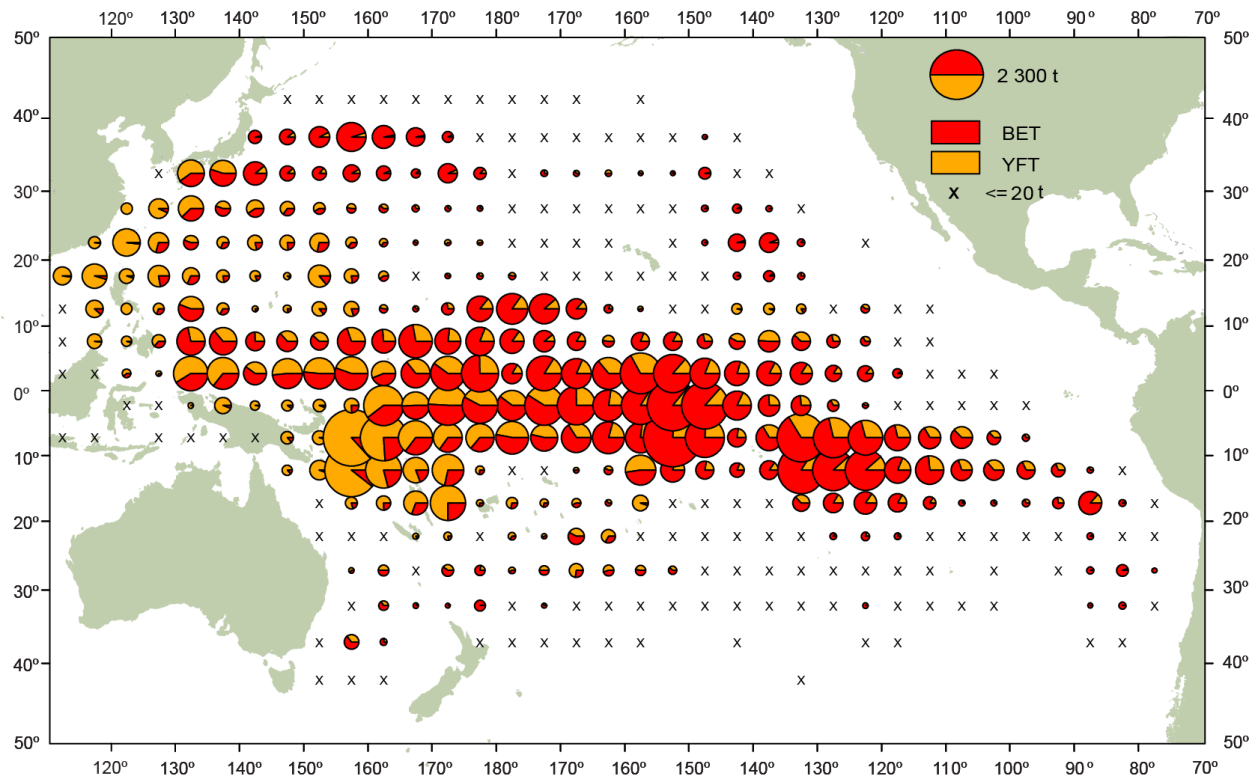


FIGURE A-4. Distributions of the average annual catches of bigeye and yellowfin tunas in the Pacific Ocean, in metric tons, by Chinese, Japanese, Korean and Chinese Taipei longline vessels, 2009-2013. The sizes of the circles are proportional to the amounts of bigeye and yellowfin caught in those 5° 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 2009-2013. El tamaño de cada círculo es proporcional a la cantidad de patudo y aleta amarilla capturado en la cuadrícula de 5° x 5° correspondiente.

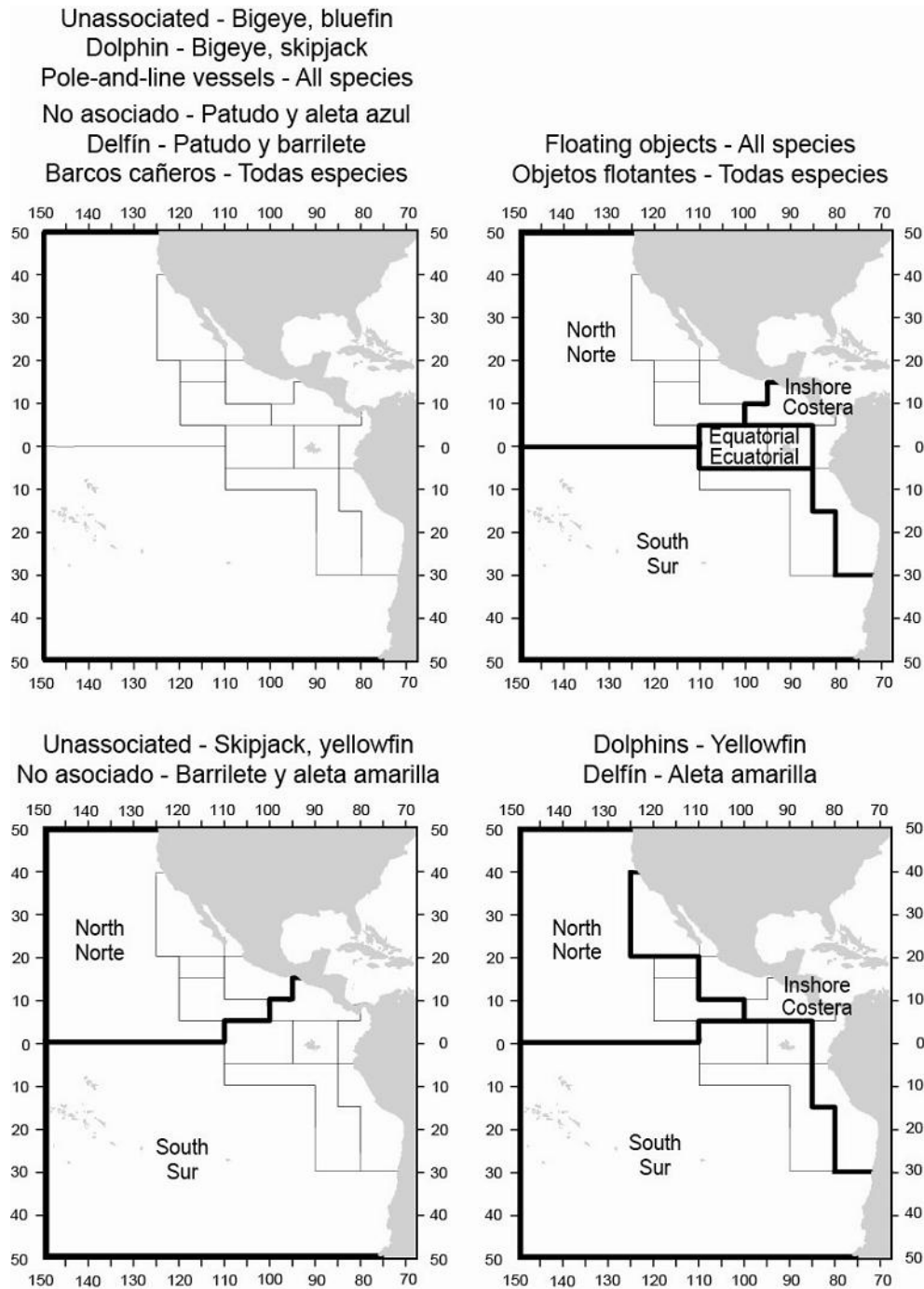


FIGURE A-5. The fisheries defined by the IATTC staff for stock assessment of yellowfin, skipjack, and bigeye in the EPO. The thin lines indicate the boundaries of the 13 length-frequency sampling areas, and the bold lines the boundaries of the fisheries.

FIGURA A-5. Las pesquerías definidas por el personal de la CIAT para la evaluación de las poblaciones de atún 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.

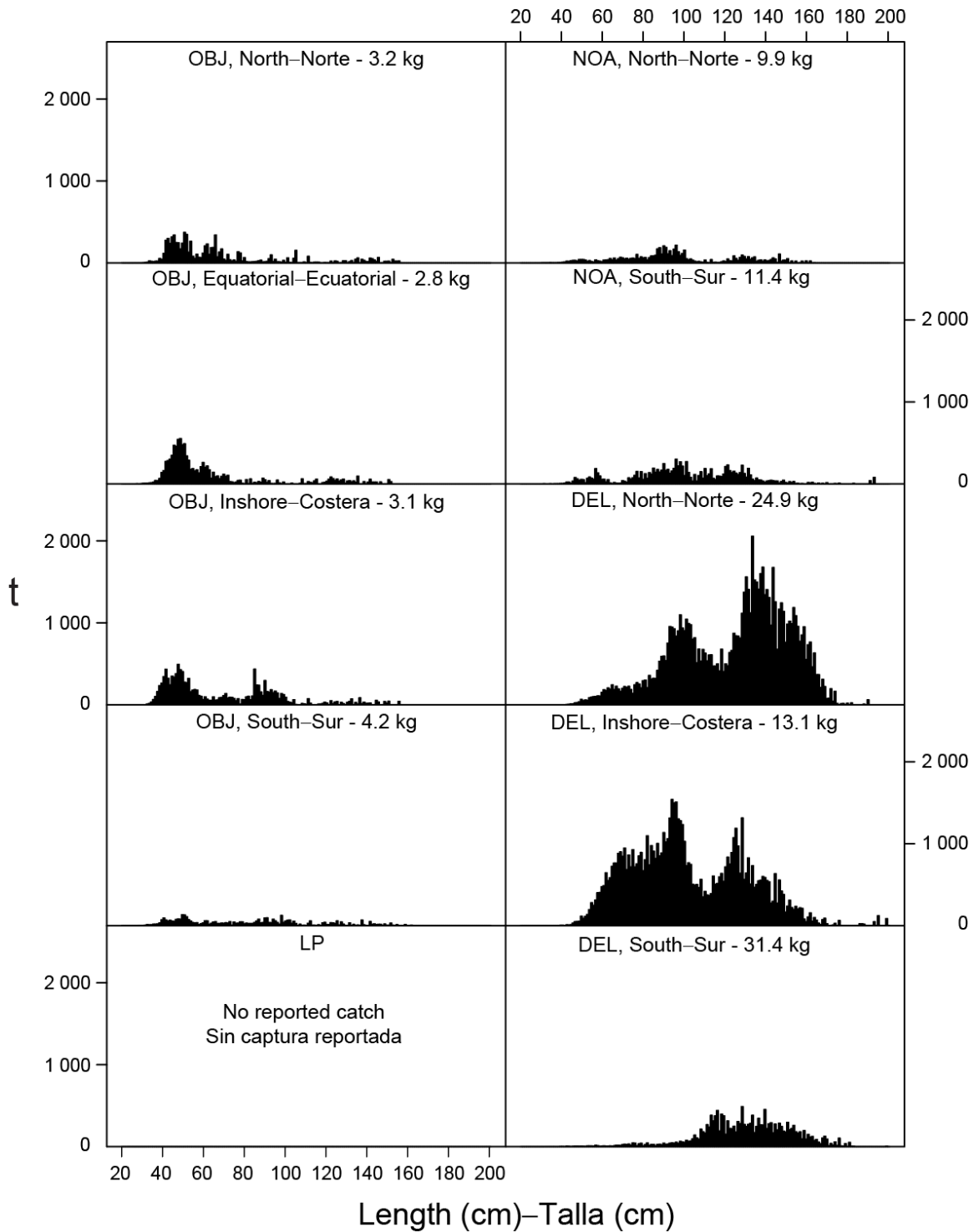


FIGURE A-6a. Estimated size compositions of the yellowfin caught in the EPO during 2014 for each fishery designated in Figure A-5. The average weights of the fish in the samples are given at the tops of the panels.

FIGURA A-6a. Composición por tallas estimada del aleta amarilla capturado en el OPO durante 2014 en cada pesquería ilustrada en la Figura A-5. En cada recuadro se detalla el peso promedio de los peces en las muestras.

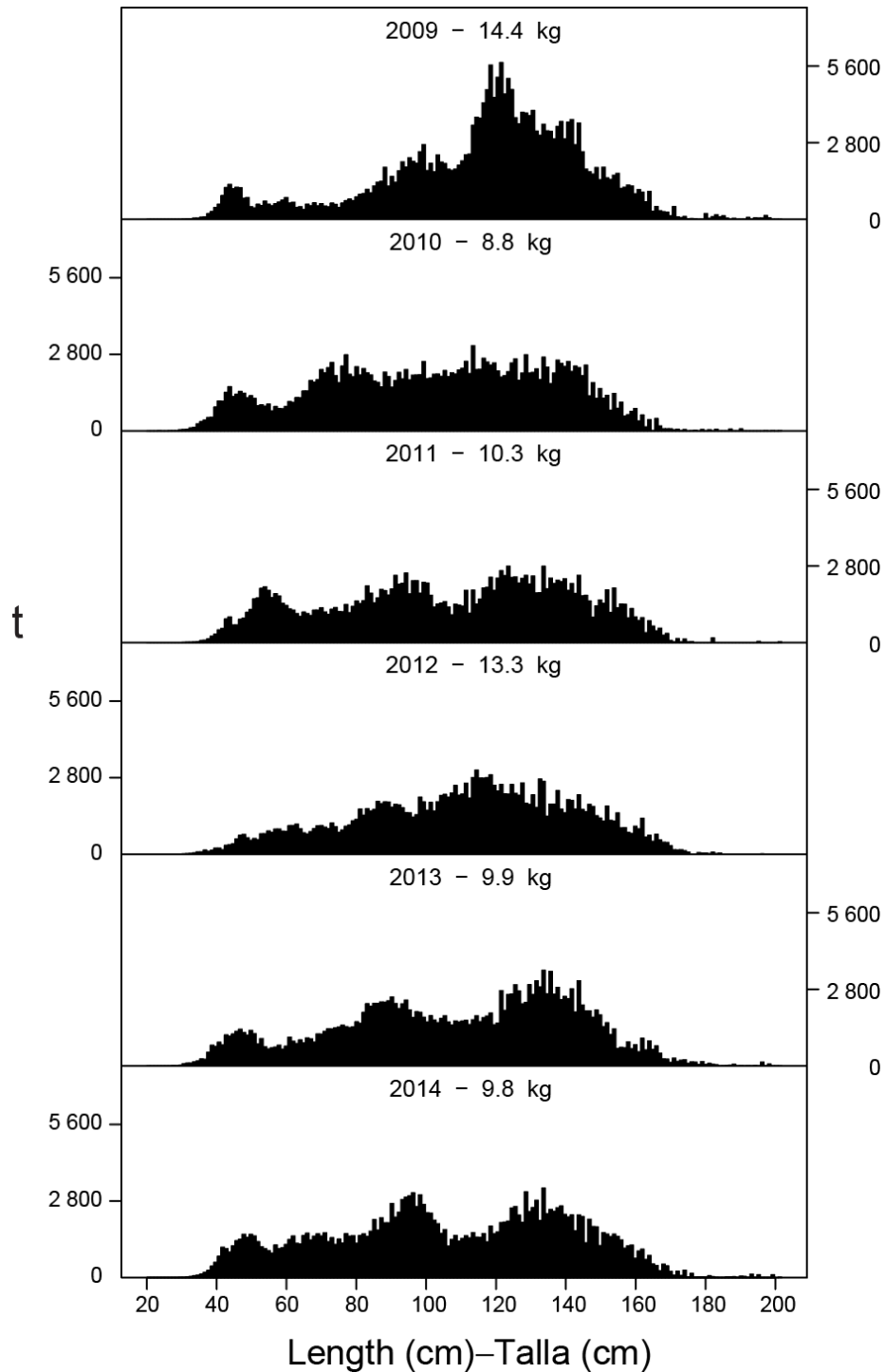


FIGURE A-6b. Estimated size compositions of the yellowfin caught by purse-seine and pole-and-line vessels in the EPO during 2009-2014. The average weights of the fish in the samples are given at the tops of the panels.

FIGURA A-6b. Composición por tallas estimada del aleta amarilla capturado por buques cerqueros y cañeros en el OPO durante 2009-2014. En cada recuadro se detalla el peso promedio de los peces en las muestras.

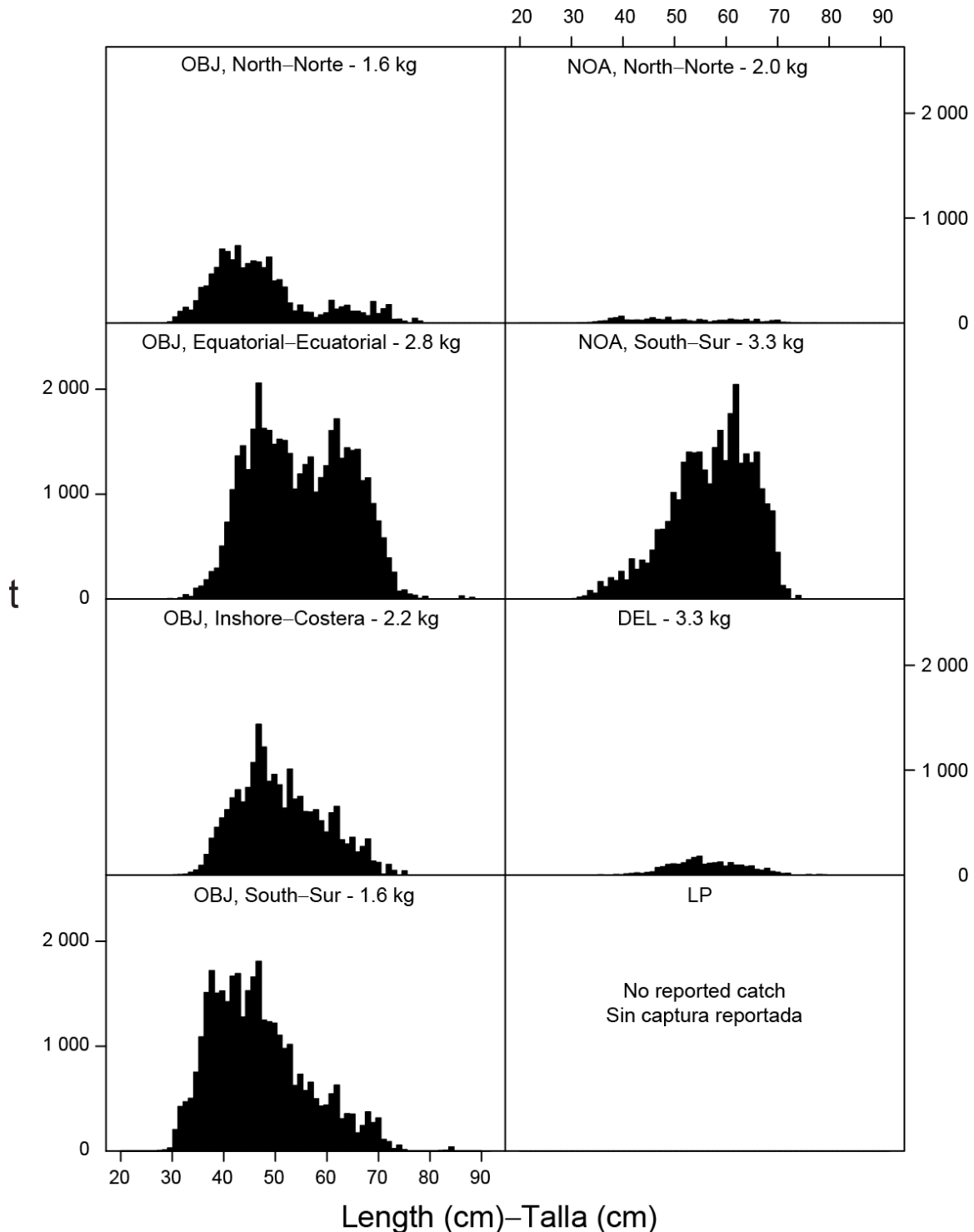


FIGURE A-7a. Estimated size compositions of the skipjack caught in the EPO during 2014 for each fishery designated in Figure A-5. The average weights of the fish in the samples are given at the tops of the panels.

FIGURA A-7a. Composición por tallas estimada del barrilete capturado en el OPO durante 2014 en cada pesquería ilustrada en la Figura A-5. En cada recuadro se detalla el peso promedio de los peces en las muestras.

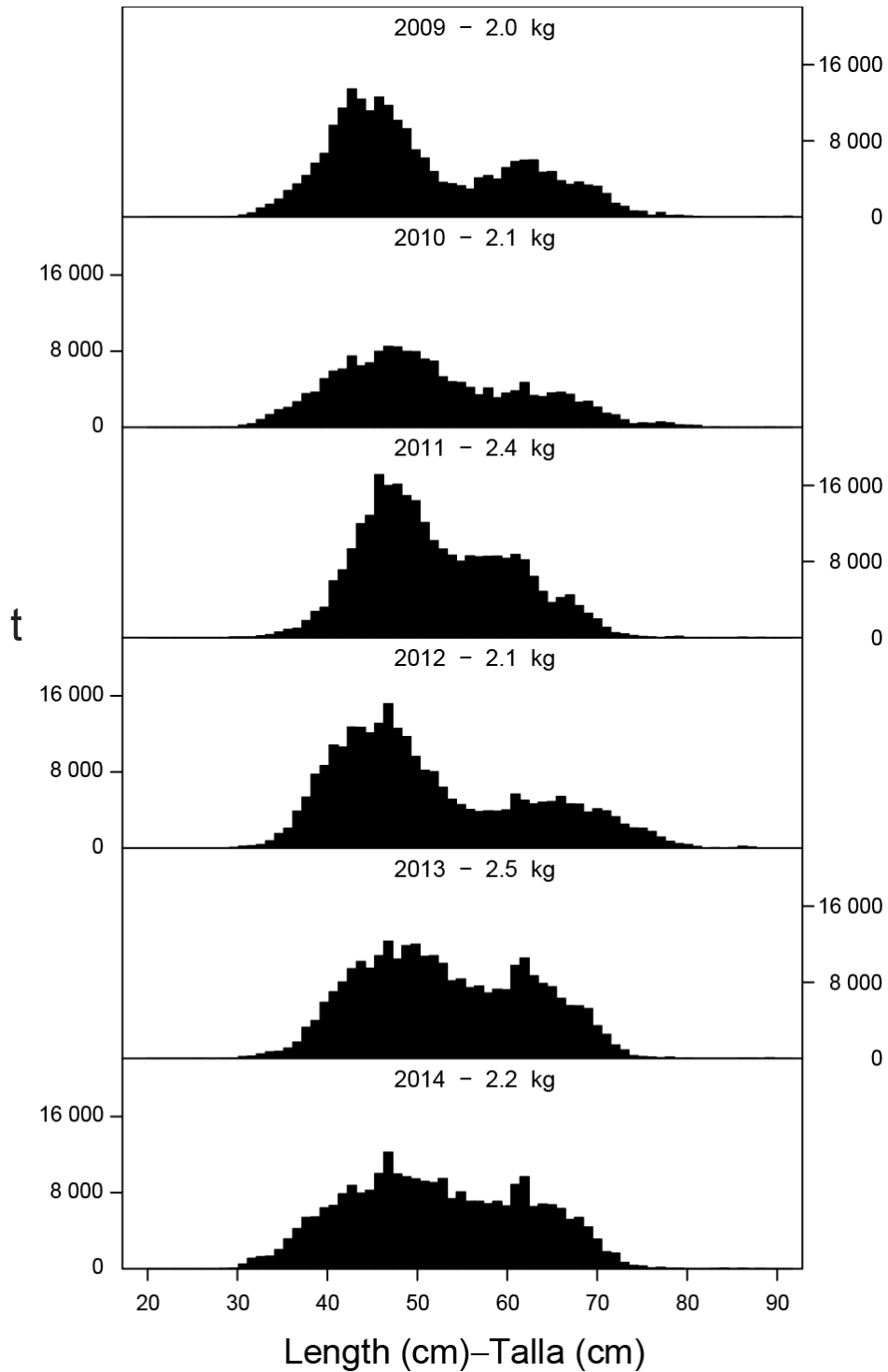


FIGURE A-7b. Estimated size compositions of the skipjack caught by purse-seine and pole-and-line vessels in the EPO during 2009-2014. The average weights of the fish in the samples are given at the tops of the panels.

FIGURA A-7b. Composición por tallas estimada del barrilete capturado por buques cerqueros y cañeros en el OPO durante 2009-2014. En cada recuadro se detalla el peso promedio de los peces en las muestras.

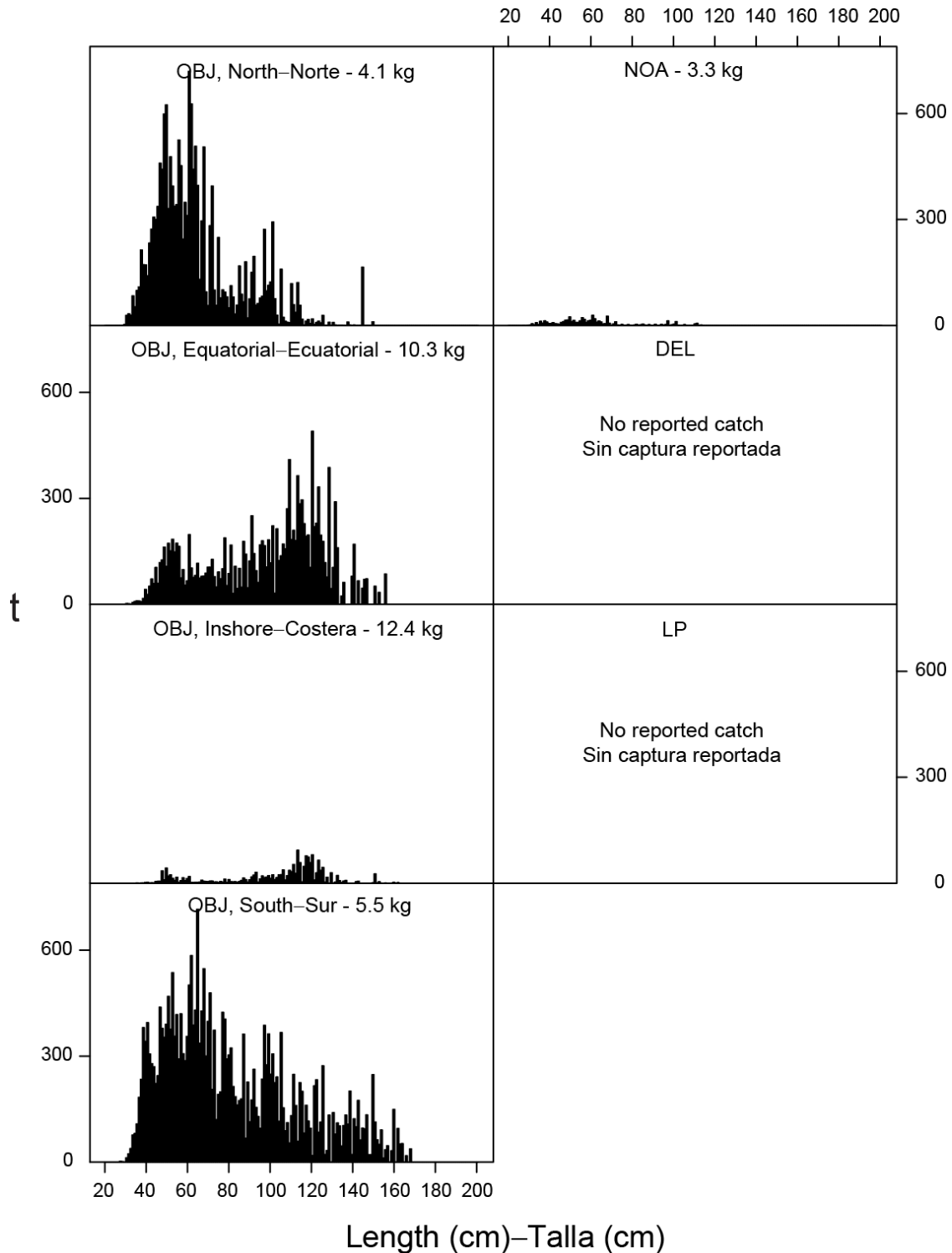


FIGURE A-8a. Estimated size compositions of the bigeye caught in the EPO during 2014 for each fishery designated in Figure A-5. The average weights of the fish in the samples are given at the tops of the panels.

FIGURA A-8a. Composición por tallas estimada del patudo capturado e en el OPO durante 2014 en cada pesquería ilustrada en la Figura A-5. En cada recuadro se detalla el peso promedio de los peces en las muestras.

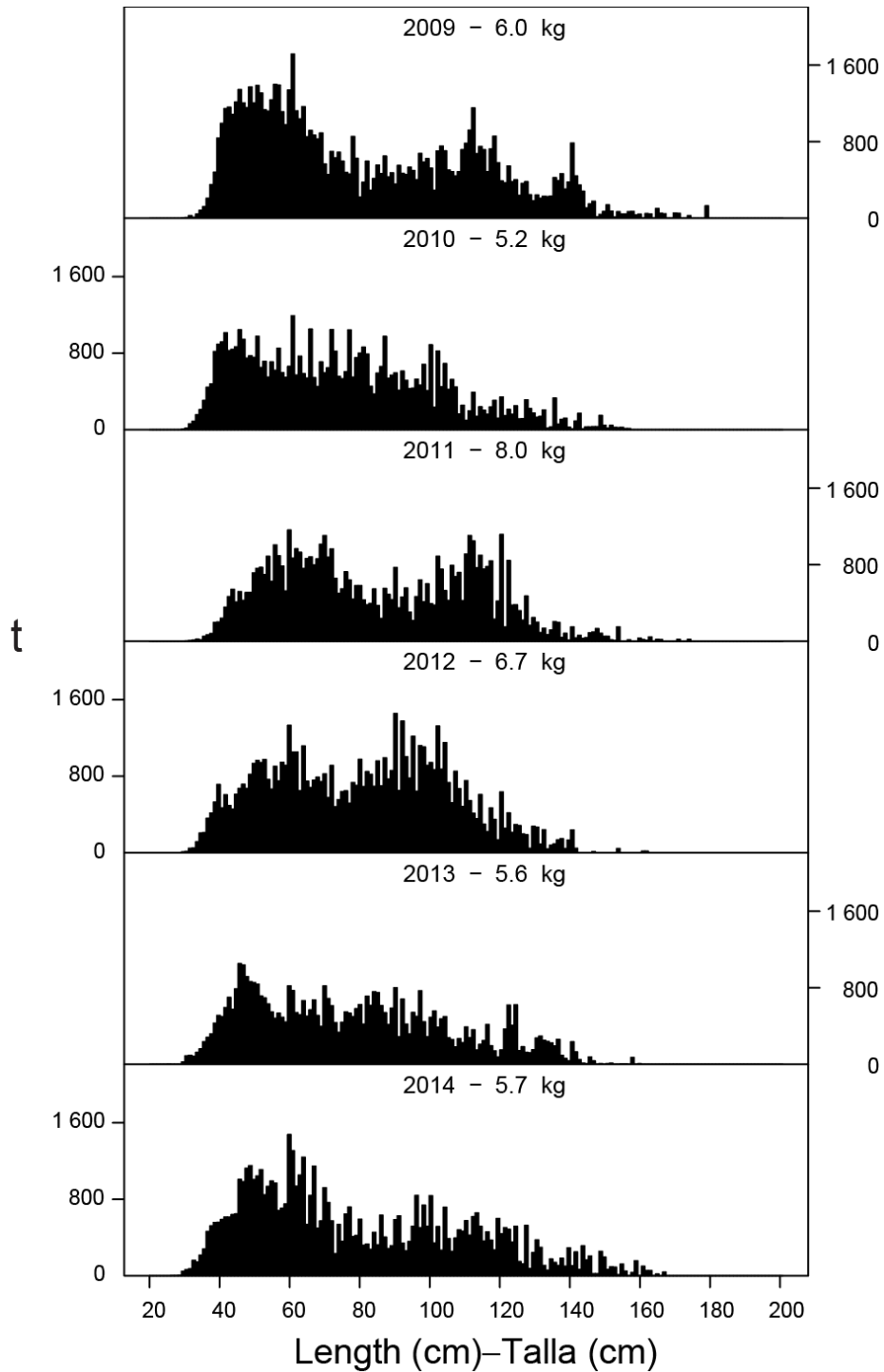


FIGURE A-8b. Estimated size compositions of the bigeye caught by purse-seine vessels in the EPO during 2009-2014. The average weights of the fish in the samples are given at the tops of the panels.

FIGURA A-8b. Composición por tallas estimada del patudo capturado por buques cerqueros en el OPO durante 2009-2014. En cada recuadro se detalla el peso promedio de los peces en las muestras.

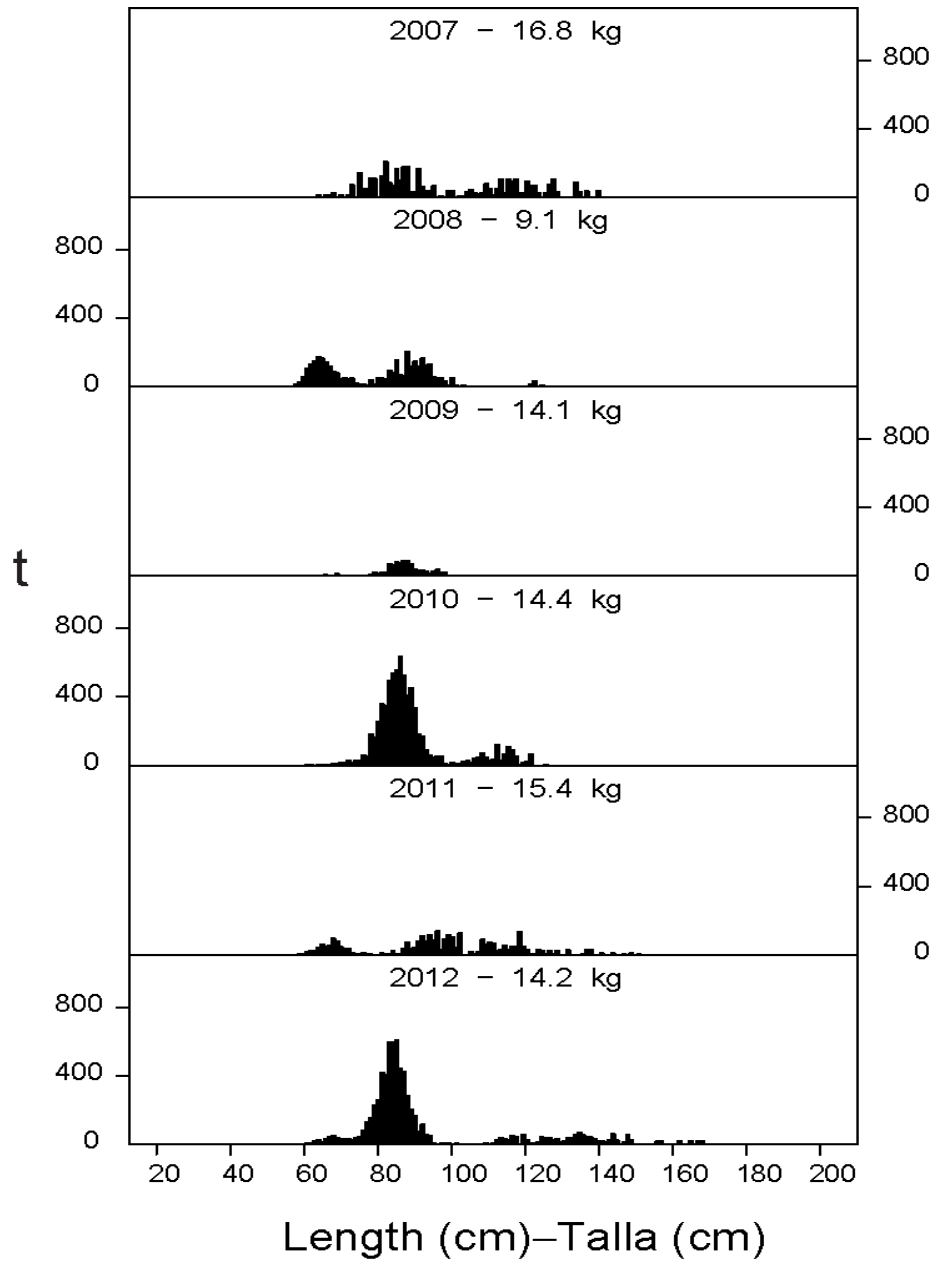


FIGURE A-9. Estimated catches of Pacific bluefin by purse-seine and recreational gear in the EPO during 2007-2012. The values at the tops of the panels are the average weights.

FIGURA A-9. Captura estimada de aleta azul del Pacífico con arte de cerco y deportiva en el OPO durante 2007-2012. El valor en cada recuadro representa el peso promedio.

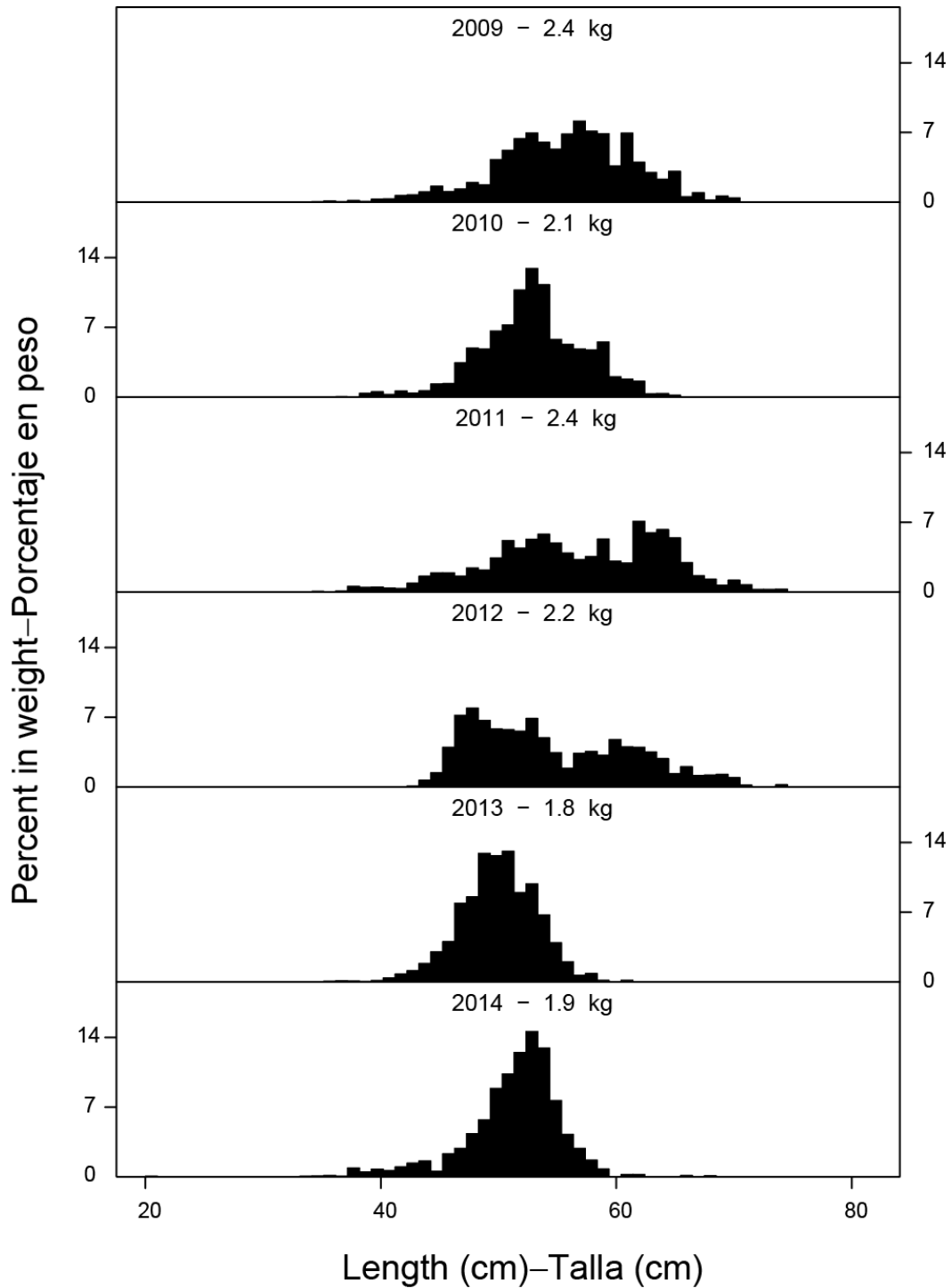


FIGURE A-10. Preliminary size compositions of the catches of black skipjack by purse-seine vessels in the EPO during 2009-2014. The values at the tops of the panels are the average weights.

FIGURA A-10. Composición por tallas preliminar del barrilete negro capturado por buques cerqueros en el OPO durante 2009-2014. El valor en cada recuadro representa el peso promedio.

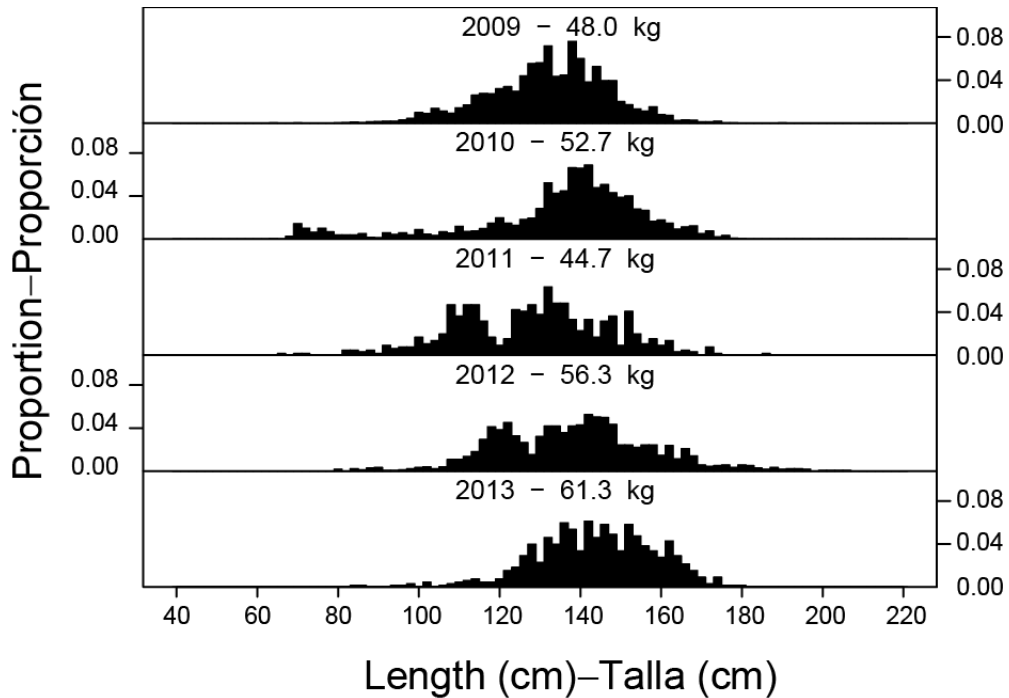


FIGURE A-11. Estimated size compositions of the catches of yellowfin tuna by the Japanese longline fishery in the EPO, 2009-2013.

FIGURA A-11. Composición por tallas estimada de las capturas de atún aleta amarilla por la pesquería palangrera japonesa en el OPO, 2009-2013.

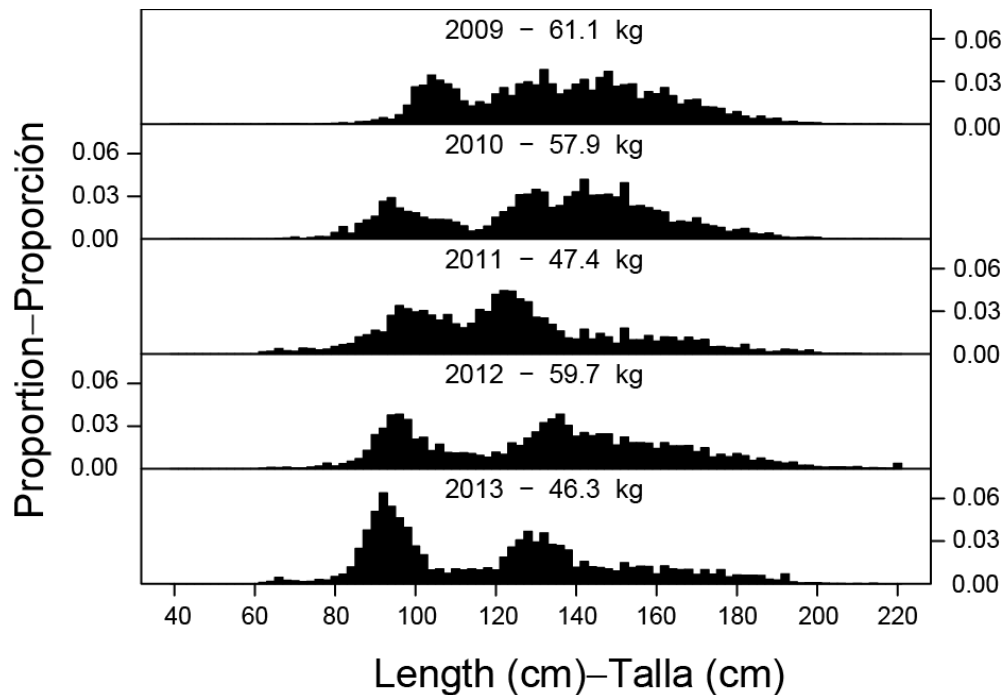


FIGURE A-12. Estimated size compositions of the catches of bigeye tuna by the Japanese longline fishery in the EPO, 2009-2013.

FIGURA A-12. Composición por tallas estimada de las capturas de atún patudo por la pesquería palangrera japonesa en el OPO, 2009-2013.

TABLE A-1. Annual catches of yellowfin, skipjack, and bigeye tunas, by all types of gear combined, in the Pacific Ocean. The EPO totals for 1993-2014 include discards from purse-seine vessels with carrying capacities greater than 363 t.

TABLA A-1. Capturas anuales de atunes aleta amarilla, barrilete, y patudo, por todas las artes combinadas, en el Océano Pacífico. Los totales del OPO de 1993-2014 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
1985	225,939	279,124	505,063	52,002	562,265	614,267	72,398	82,215	154,613	350,339	923,604	1,273,943
1986	286,071	260,770	546,841	67,745	715,528	783,273	105,185	84,082	189,267	459,001	1,060,380	1,519,381
1987	286,164	308,743	594,907	66,466	656,149	722,615	101,347	100,234	201,581	453,977	1,065,126	1,519,103
1988	296,428	301,716	598,144	92,127	793,226	885,353	74,313	92,163	166,476	462,868	1,187,105	1,649,973
1989	299,436	349,531	648,967	98,921	767,763	866,684	72,994	98,789	171,783	471,351	1,216,083	1,687,434
1990	301,522	390,460	691,982	77,107	835,848	912,955	104,851	115,761	220,612	483,480	1,342,069	1,825,549
1991	265,970	417,229	683,199	65,890	1,063,265	1,129,155	109,121	99,255	208,376	440,981	1,579,749	2,020,730
1992	252,514	430,985	683,499	87,294	957,325	1,044,619	92,000	118,121	210,121	431,808	1,506,431	1,938,239
1993	256,199	373,328	629,527	100,434	919,411	1,019,845	82,843	102,774	185,617	439,476	1,395,513	1,834,989
1994	248,071	411,101	659,172	84,661	990,802	1,075,463	109,331	117,534	226,865	442,063	1,519,437	1,961,500
1995	244,639	407,302	651,941	150,661	1,028,566	1,179,227	108,210	106,483	214,693	503,510	1,542,351	2,045,861
1996	266,928	409,877	676,805	132,335	1,016,890	1,149,225	114,706	110,760	225,466	513,969	1,537,527	2,051,496
1997	277,575	500,495	778,070	188,285	925,713	1,113,998	122,274	153,726	276,000	588,134	1,579,934	2,168,068
1998	280,606	603,903	884,509	165,489	1,205,639	1,371,128	93,954	167,338	261,292	540,049	1,976,880	2,516,929
1999	304,638	524,268	828,906	291,249	1,099,846	1,391,095	93,078	149,317	242,395	688,965	1,773,431	2,462,396
2000	286,865	561,404	848,269	230,480	1,184,649	1,415,129	148,557	133,374	281,931	665,902	1,879,427	2,545,329
2001	425,008	526,977	951,985	157,676	1,109,368	1,267,044	130,546	134,949	265,495	713,230	1,771,294	2,484,524
2002	443,458	485,758	929,216	167,048	1,287,960	1,455,008	132,806	158,107	290,913	743,312	1,931,825	2,675,137
2003	415,933	542,625	958,558	300,470	1,285,042	1,585,512	115,175	128,318	243,493	831,578	1,955,985	2,787,563
2004	296,847	580,414	877,261	217,249	1,386,908	1,604,157	110,722	179,810	290,532	624,818	2,147,132	2,771,950
2005	286,664	538,657	825,321	283,453	1,402,757	1,686,210	111,197	140,538	251,735	681,314	2,081,952	2,763,266
2006	179,625	467,685	647,310	309,090	1,501,245	1,810,335	119,360	150,365	269,725	608,075	2,119,295	2,727,370
2007	182,141	497,421	679,562	216,324	1,654,537	1,870,861	94,239	136,404	230,643	492,704	2,288,362	2,781,066
2008	197,320	590,045	787,365	307,699	1,629,454	1,937,153	103,290	143,815	247,105	608,309	2,363,314	2,971,623
2009	250,196	526,548	776,744	239,434	1,790,878	2,030,312	109,353	144,457	253,810	598,983	2,461,883	3,060,866
2010	261,787	540,374	802,161	153,093	1,696,061	1,849,154	95,347	127,722	223,069	510,227	2,364,157	2,874,384
2011	216,419	499,935	716,354	283,509	1,542,196	1,825,705	89,773	150,196	239,969	589,701	2,192,327	2,782,028
2012	213,058	584,010	797,068	273,446	1,768,821	2,042,267	102,623	153,203	255,826	589,127	2,506,034	3,095,161
2013	229,433	517,803	747,236	283,300	1,797,897	2,081,197	83,631	137,502	221,133	596,364	2,453,202	3,049,566
2014	233,566	*	233,566	264,378	*	264,378	94,932	*	94,932	592,876	*	592,876

TABLE A-2a. Estimated retained catches (Ret.), by gear type, and estimated discards (Dis.), by purse-seine vessels with carrying capacities greater than 363 t only, of tunas and bonitos, in metric tons, in the EPO. The purse-seine and pole-and-line data for yellowfin, skipjack, and bigeye tunas have been adjusted to the species composition estimate and are preliminary. The data for 2013-2014 are preliminary.

TABLA A-2a. Estimaciones de las capturas retenidas (Ret.), por arte de pesca, y de los descartes (Dis.), por buques cerqueros de más de 363 t de capacidad de acarreo únicamente, de atunes y bonitos, en toneladas métricas, en el OPO. Los datos de los atunes aleta amarilla, barrilete, y patudo de las pesquerías cerquera y cañera fueron ajustados a la estimación de composición por especie, y son preliminares. Los datos de 2013-2014 son preliminares.

	Yellowfin—Aleta amarilla						Skipjack—Barrilete						Bigeye—Patudo					
	PS		LP	LL	OTR + NK	Total	PS		LP	LL	OTR + NK	Total	PS		LP	LL	OTR + NK	Total
	Ret.	Dis.					Ret.	Dis.					Ret.	Dis.				
1985	211,459	-	1,070	13,198	212	225,939	50,829	-	946	44	183	52,002	6,056	-	2	66,325	15	72,398
1986	260,512	-	2,537	22,808	214	286,071	65,634	-	1,921	58	132	67,745	2,686	-	-	102,425	74	105,185
1987	262,008	-	5,107	18,911	138	286,164	64,019	-	2,233	37	177	66,466	1,177	-	-	100,121	49	101,347
1988	277,293	-	3,723	14,660	752	296,428	87,113	-	4,325	26	663	92,127	1,535	-	5	72,758	15	74,313
1989	277,996	-	4,145	17,032	263	299,436	94,934	-	2,940	28	1,019	98,921	2,030	-	-	70,963	1	72,994
1990	263,253	-	2,676	34,633	960	301,522	74,369	-	823	41	1,874	77,107	5,921	-	-	98,871	59	104,851
1991	231,257	-	2,856	30,899	958	265,970	62,228	-	1,717	36	1,909	65,890	4,870	-	31	104,195	25	109,121
1992	228,121	-	3,789	18,646	1,958	252,514	84,283	-	1,957	24	1,030	87,294	7,179	-	-	84,808	13	92,000
1993	219,492	4,713	4,951	24,009	3,034	256,199	83,830	10,515	3,772	61	2,256	100,434	9,657	653	-	72,498	35	82,843
1994	208,408	4,525	3,625	30,026	1,487	248,071	70,126	10,491	3,240	73	731	84,661	34,899	2,266	-	71,360	806	109,331
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	6,207	2,431	23,855	1,109	286,865	205,647	24,468	231	68	66	230,480	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	12,118	1,852	286,664	263,229	16,915	1,299	231	1,779	283,453	67,895	1,900	-	41,377	25	111,197
2006	166,631	1,534	686	9,316	1,458	179,625	296,268	11,177	435	224	986	309,090	83,838	1,680	-	33,802	40	119,360
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	-	29,855	44	94,239
2008	185,057	696	814	9,812	941	197,320	296,603	8,249	499	1,185	1,163	307,699	75,028	2,086	-	26,148	28	103,290
2009	236,772	1,262	709	10,459	994	250,196	230,523	6,064	151	1,584	1,112	239,434	76,799	1,019	-	31,520	15	109,353
2010	251,009	1,031	460	8,329	958	261,787	147,192	2,769	47	1,815	1,270	153,093	57,752	564	-	37,029	2	95,347
2011	206,851	415	276	8,071	806	216,419	276,035	5,215	24	1,384	851	283,509	56,512	631	-	32,630	-	89,773
2012	198,017	451	400	12,954	1,236	213,058	266,215	3,511	303	2,377	1,040	273,446	66,020	473	-	36,122	8	102,623
2013	217,258	207	754	10,349	865	229,433	278,091	2,254	167	2,014	774	283,300	49,426	273	-	33,915	17	83,631
2014	232,889	517	*	*	*	233,566	261,665	2,596	*	*	*	264,378	59,600	83	-	35,249	-	94,932

TABLE A-2a. (continued)
 TABLA A-2a. (continuación)

	Pacific bluefin—Aleta azul del Pacífico						Albacore—Albacora						Black skipjack—Barrilete negro					
	PS		LP	LL	OTR + NK	Total	PS		LP	LL	OTR + NK	Total	PS		LP	LL	OTR + NK	Total
	Ret.	Dis.					Ret.	Dis.					Ret.	Dis.				
1985	3,996	-	-	1	77	4,074	42	-	877	7,268	6,654	14,841	288	-	-	-	7	295
1986	5,040	-	-	1	64	5,105	47	-	86	6,450	4,701	11,284	569	-	-	-	18	587
1987	980	-	-	3	88	1,071	1	-	320	9,994	2,662	12,977	571	-	-	-	2	573
1988	1,379	-	-	2	52	1,433	17	-	271	9,934	5,549	15,771	956	-	-	-	311	1,267
1989	1,103	-	5	4	91	1,203	1	-	21	6,784	2,695	9,501	801	-	-	-	-	801
1990	1,430	-	61	12	103	1,606	39	-	170	6,536	4,105	10,850	787	-	-	-	4	791
1991	419	-	-	5	55	479	0	-	834	7,893	2,754	11,481	421	-	-	-	25	446
1992	1,928	-	-	21	147	2,096	0	-	255	17,080	5,740	23,075	105	-	-	3	-	108
1993	580	0	-	11	316	907	0	-	1	11,194	4,410	15,605	104	3,925	-	31	-	4,060
1994	969	0	-	12	116	1,097	0	-	85	10,390	10,154	20,629	188	857	-	40	-	1,085
1995	659	0	-	25	264	948	0	-	465	6,185	7,427	14,077	203	1,448	-	-	-	1,651
1996	8,333	0	-	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	0	-	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	0	61	46	349	4,168	71	-	86	9,663	13,453	23,273	293	1,995	-	-	-	2,288
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	0	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	-	0	80	4,838	2	-	66	11,398	15,679	27,145	1,472	2,124	-	-	22	3,618
2006	9,928	0	-	0	93	10,021	109	-	1	13,728	18,980	32,818	1,999	1,972	-	-	-	3,971
2007	4,189	0	-	0	14	4,203	187	-	21	11,031	19,261	30,500	2,306	1,625	-	2	54	3,987
2008	4,392	14	15	0	63	4,484	49	-	1,050	8,963	16,553	26,615	3,624	2,251	-	-	8	5,883
2009	3,428	24	0	0	158	3,610	59	2	2,218	12,187	17,158	31,615	4,256	1,020	-	2	-	5,278
2010	7,746	0	0	3	88	7,837	25	-	-	13,888	20,135	34,048	3,425	1,079	-	8	184	4,696
2011	2,829	4	-	1	242	3,076	10	-	-	19,953	17,060	37,023	2,317	719	-	6	-	3,042
2012	6,705	0	-	1	399	7,105	-	-	-	23,458	18,113	41,571	4,504	440	-	5	-	4,949
2013	3,154	0	-	1	808	3,963	-	-	-	24,535	18,537	43,072	3,554	805	-	11	-	4,370
2014	4,862	66	*	*	392	5,320	-	-	-	*	*	*	4,083	486	-	*	*	4,569

TABLE A-2a. (continued)
 TABLA A-2a. (continuación)

	Bonitos						Unidentified tunas— Atunes no identificados						Total					
	PS		LP	LL	OTR + NK	Total	PS		LP	LL	OTR + NK	Total	PS		LP	LL	OTR + NK	Total
	Ret.	Dis.					Ret.	Dis.					Ret.	Dis.				
1985	3,599	-	5	-	7,869	11,473	19	-	-	-	678	697	276,288	-	2,900	86,836	15,695	381,719
1986	232	-	258	-	1,889	2,379	177	-	4	-	986	1,167	334,897	-	4,806	131,742	8,078	479,523
1987	3,195	-	121	-	1,782	5,098	481	-	-	-	2,043	2,524	332,432	-	7,781	129,066	6,941	476,220
1988	8,811	-	739	-	947	10,497	79	-	-	-	2,939	3,018	377,183	-	9,063	97,380	11,228	494,854
1989	11,278	-	818	-	465	12,561	36	-	-	-	626	662	388,179	-	7,929	94,811	5,160	496,079
1990	13,641	-	215	-	371	14,227	200	-	-	3	692	895	359,640	-	3,945	140,096	8,168	511,849
1991	1,207	-	82	-	242	1,531	4	-	-	29	192	225	300,406	-	5,520	143,057	6,160	455,143
1992	977	-	-	-	318	1,295	24	-	-	27	1,071	1,122	322,617	-	6,001	120,609	10,277	459,504
1993	599	12	1	-	436	1,048	9	1,975	-	10	4,082	6,076	314,271	21,793	8,725	107,814	14,569	467,172
1994	8,331	147	362	-	185	9,025	9	498	-	1	464	972	322,930	18,784	7,312	111,902	13,943	474,871
1995	7,929	55	81	-	54	8,119	11	626	-	-	1,004	1,641	396,604	27,028	7,067	85,152	14,095	529,946
1996	647	1	7	-	16	671	37	1,028	-	-	1,038	2,103	413,623	39,828	6,396	71,280	13,183	544,310
1997	1,097	4	8	-	34	1,143	71	3,383	-	7	1,437	4,898	466,483	48,158	7,747	84,588	9,962	616,938
1998	1,330	4	7	-	588	1,929	13	1,233	-	24	18,158	19,428	442,365	33,275	6,896	74,759	34,814	592,109
1999	1,719	0	-	24	369	2,112	27	3,092	-	2,113	4,279	9,511	599,160	44,075	4,059	62,254	24,309	733,857
2000	636	0	-	75	56	767	190	1,410	-	1,992	1,468	5,060	559,094	39,497	2,809	83,304	16,754	701,458
2001	17	0	0	34	19	70	191	679	-	2,448	55	3,373	591,243	22,798	4,522	121,617	14,752	754,932
2002	-	0	-	-	1	1	576	1,863	-	482	1,422	4,343	627,077	21,742	1,958	116,058	17,158	783,993
2003	-	0	1	-	25	26	80	1,238	-	215	750	2,283	714,079	33,417	1,177	110,800	25,601	885,074
2004	15	35	1	8	3	62	256	973	-	349	258	1,836	545,992	23,066	2,539	81,818	25,120	678,535
2005	313	18	0	-	11	342	190	1,922	-	363	427	2,902	605,945	25,665	3,187	65,487	19,875	720,159
2006	3,507	80	12	-	3	3,602	50	1,910	-	21	193	2,174	562,330	18,353	1,134	57,091	21,753	660,661
2007	15,906	628	107	2	-	16,643	598	1,221	-	2,194	301	4,314	464,947	12,539	1,298	51,389	22,178	552,351
2008	7,874	37	9	6	26	7,952	136	1,380	1	727	883	3,127	572,763	14,713	2,388	46,841	19,665	656,370
2009	9,720	15	0	8	165	9,908	162	469	-	1,933	74	2,638	561,710	9,875	3,078	57,693	19,676	652,032
2010	2,820	19	4	2	0	2,845	136	709	-	1,754	36	2,635	470,105	6,171	511	62,828	22,673	562,288
2011	7,969	45	18	10	9	8,051	108	784	-	3,173	-	4,065	552,631	7,813	318	65,228	18,968	644,958
2012	8,191	156	-	1	64	8,412	41	354	-	196	22	613	549,693	5,385	703	75,114	20,882	651,777
2013	2,063	9	-	13	27	2,112	53	461	-	12	23	549	553,599	4,009	921	70,850	21,051	650,430
2014	2,821	38	-	*	*	2,859	115	328	-	*	*	443	566,035	4,114	*	*	*	570,426

TABLE A-2b. Estimated retained catches, by gear type, and estimated discards, by purse-seine vessels with carrying capacities greater than 363 t only, of billfishes, in metric tons, in the EPO. Data for 2013-2014 are preliminary. PS dis. = discards by purse-seine vessels.

TABLA A-2b. Estimaciones de las capturas retenidas, por arte de pesca, y de los descartes, por buques cerqueros de más de 363 t de capacidad de acarreo únicamente, de peces picudos, en toneladas métricas, en el OPO. Los datos de 2013-2014 son preliminares. PS dis. = descartes por buques cerqueros.

	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.			
1985	-	-	1,885	3,768	5,653	-	-	3,589	-	3,589	-	-	180	-	180	-	-	1,599	-	1,599
1986	-	-	3,286	3,294	6,580	-	-	5,278	-	5,278	-	-	297	-	297	-	-	3,540	-	3,540
1987	-	-	4,676	3,740	8,416	-	-	7,282	-	7,282	-	-	358	-	358	-	-	7,647	-	7,647
1988	-	-	4,916	5,642	10,558	-	-	5,663	-	5,663	-	-	288	-	288	-	-	5,283	-	5,283
1989	-	-	5,202	6,072	11,274	-	-	5,392	-	5,392	-	-	193	-	193	-	-	3,473	-	3,473
1990	-	-	5,807	5,066	10,873	-	-	5,540	-	5,540	-	-	223	-	223	-	-	3,260	333	3,593
1991	-	17	10,671	4,307	14,995	-	69	6,719	-	6,788	-	58	246	-	304	-	76	2,993	409	3,478
1992	-	4	9,820	4,267	14,091	-	52	6,626	-	6,678	-	95	228	-	323	-	69	3,054	239	3,362
1993	3	1	6,187	4,414	10,605	84	20	6,571	-	6,675	57	31	218	-	306	47	20	3,575	259	3,901
1994	1	-	4,990	3,822	8,813	69	15	9,027	-	9,111	39	23	256	-	318	20	9	3,396	257	3,682
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	-	8,987	4,304	13,293	209	14	3,407	-	3,630	95	9	51	-	155	37	4	1,559	553	2,153
2006	7	-	9,164	3,800	12,971	164	21	2,396	105	2,686	124	21	43	-	188	54	3	1,627	490	2,174
2007	4	-	9,635	4,390	14,029	124	13	3,458	106	3,701	74	8	48	-	130	32	4	1,653	1,024	2,713
2008	6	-	12,223	3,072	15,301	125	8	3,222	114	3,469	76	9	100	-	185	33	2	1,289	1,045	2,369
2009	4	-	15,549	3,809	19,362	159	15	3,887	131	4,192	76	8	99	-	183	23	2	1,334	7	1,366
2010	4	-	18,390	4,497	22,891	176	12	5,410	126	5,724	62	9	159	0	230	21	2	2,123	9	2,155
2011	3	-	20,424	5,191	25,618	150	6	4,365	144	4,665	59	7	187	-	253	28	1	2,709	16	2,754
2012	5	-	23,580	6,383	29,968	178	15	5,816	177	6,186	71	4	441	-	516	28	-	2,697	20	2,745
2013	2	-	22,337	4,964	27,303	172	15	6,311	168	6,666	99	4	134	-	237	21	1	2,161	19	2,202
2014	3	-	*	*	3	208	12	*	*	220	71	4	*	*	75	23	1	*	*	24

TABLE A-2b. (continued)
 TABLA A-2b. (continuación)

	Shortbill spearfish— Marlín trompa corta					Sailfish— Pez vela					Unidentified istiophorid billfishes—Picudos istiofóridos no identificados					Total billfishes— Total de peces picudos				
	PS		LL	OTR	Total	PS		LL	OTR	Total	PS		LL	OTR	Total	PS		LL	OTR	Total
	Ret.	Dis.				Ret.	Dis.				Ret.	Dis.				Ret.	Dis.			
1985	-	-	-	-	-	-	-	395	-	395	-	-	1	-	1	-	-	7,649	3,768	11,417
1986	-	-	5	-	5	-	-	583	-	583	-	-	1	-	1	-	-	12,990	3,294	16,284
1987	-	-	15	-	15	-	-	649	-	649	-	-	398	-	398	-	-	21,025	3,740	24,765
1988	-	-	13	-	13	-	-	649	-	649	-	-	368	-	368	-	-	17,180	5,642	22,822
1989	-	-	-	-	-	-	-	192	-	192	-	-	51	-	51	-	-	14,503	6,072	20,575
1990	-	-	-	-	-	-	-	6	-	6	-	-	125	-	125	-	-	14,961	5,399	20,360
1991	-	-	1	-	1	-	-	717	-	717	-	-	112	-	112	-	220	21,459	4,716	26,395
1992	-	1	1	-	2	-	-	1,351	-	1,351	-	-	1,123	-	1,123	-	221	22,203	4,506	26,930
1993	0	0	1	-	1	26	32	2,266	-	2,324	29	68	1,650	-	1,747	246	172	20,468	4,673	25,559
1994	0	0	144	-	144	19	21	1,682	-	1,722	7	16	1,028	-	1,051	155	84	20,523	4,079	24,841
1995	1	0	155	-	156	12	15	1,351	-	1,378	4	9	232	-	245	151	71	16,928	3,270	20,420
1996	1	0	126	-	127	10	12	738	-	760	6	13	308	-	327	146	73	15,157	2,916	18,292
1997	1	0	141	-	142	12	11	1,891	-	1,914	3	5	1,324	-	1,332	243	57	24,478	2,110	26,888
1998	0	0	200	-	200	28	31	1,382	-	1,441	5	7	575	55	642	258	89	20,539	3,810	24,696
1999	1	0	278	-	279	33	8	1,216	-	1,257	6	12	1,136	-	1,154	332	111	16,605	2,341	19,389
2000	1	0	285	-	286	33	17	1,380	-	1,430	3	6	879	136	1,024	244	70	17,102	2,923	20,339
2001	0	0	304	-	304	18	45	1,539	325	1,927	2	5	1,742	204	1,953	222	147	25,872	2,835	29,076
2002	1	0	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	0	207	-	208	19	13	1,400	17	1,449	4	4	1,384	-	1,392	251	44	23,734	716	24,745
2005	1	0	229	-	230	32	11	805	15	863	5	3	901	-	909	381	41	15,939	4,872	21,233
2006	1	0	231	-	232	30	13	1,007	35	1,085	23	4	490	1	518	403	62	14,958	4,431	19,854
2007	1	0	239	-	240	41	8	1,032	64	1,145	13	4	107	15	139	289	37	16,172	5,599	22,097
2008	1	0	257	-	258	28	7	524	72	631	16	5	85	8	114	285	31	17,700	4,311	22,327
2009	1	0	446	-	447	17	6	327	8	358	11	1	27	12	51	291	32	21,669	3,967	25,959
2010	1	0	519	-	520	27	20	655	3	705	8	2	111	-	121	299	45	27,367	4,635	32,346
2011	-	-	462	-	462	18	5	658	28	709	15	1	42	3	61	273	20	28,847	5,382	34,522
2012	1	-	551	-	552	14	2	683	15	714	10	1	87	-	98	307	22	33,855	6,595	40,779
2013	1	-	663	-	664	16	2	473	-	491	16	3	34	-	53	327	25	32,113	5,151	37,616
2014	0	-	*	*	-	15	1	*	*	16	9	2	*	-	11	329	20	*	*	349

TABLE A-2c. Estimated retained catches (Ret.), by gear type, and estimated discards (Dis.), by purse-seine vessels of more than 363 t carrying capacity only, of other species, in metric tons, in the EPO. The data for 2013-2014 are preliminary.

TABLA A-2c. Estimaciones de las capturas retenidas (Ret.), por arte de pesca, y de los descartes (Dis.), por buques cerqueros de más de 363 t de capacidad de acarreo únicamente, de otras especies, en toneladas métricas, en el OPO. Los datos de 2013-2014 son preliminares.

	Carangids—Carángidos					Dorado (<i>Coryphaena</i> spp.)					Elasmobranchs—Elasmobranquios					Other fishes—Otros peces				
	PS		LL	OTR	Total	PS		LL	OTR	Total	PS		LL	OTR	Total	PS		LL	OTR	Total
	Ret.	Dis.				Ret.	Dis.				Ret.	Dis.				Ret.	Dis.			
1985	317	-	-	4	321	93	-	-	108	201	27	-	13	481	521	76	-	7	-	83
1986	188	-	-	19	207	633	-	-	1,828	2,461	29	-	1	1,979	2,009	93	-	-	-	93
1987	566	-	-	5	571	271	-	-	4,272	4,543	95	-	87	1,020	1,202	210	-	535	-	745
1988	825	-	-	1	826	69	-	-	1,560	1,629	1	-	23	1,041	1,065	321	-	361	-	682
1989	60	-	-	2	62	211	-	-	1,680	1,891	29	-	66	1,025	1,120	670	-	152	-	822
1990	234	-	-	1	235	63	-	-	1,491	1,554	-	-	280	1,095	1,375	433	-	260	14	707
1991	116	-	-	0	116	57	-	7	613	677	1	-	1,112	1,352	2,465	463	-	458	1	922
1992	116	-	-	0	116	69	-	37	708	814	-	-	2,294	1,190	3,484	555	-	183	-	738
1993	31	43	-	2	76	266	476	17	724	1,483	253	1,154	1,028	916	3,351	142	554	184	2	882
1994	19	28	-	16	63	687	826	46	3,459	5,018	372	1,029	1,234	1,314	3,949	243	567	251	-	1,061
1995	27	32	-	9	68	465	729	39	2,127	3,360	278	1,093	922	1,075	3,368	174	760	211	-	1,145
1996	137	135	-	57	329	548	885	43	183	1,659	239	1,001	1,120	2,151	4,511	152	467	457	-	1,076
1997	38	111	-	39	188	569	703	6,866	3,109	11,247	413	1,232	956	2,328	4,929	261	654	848	-	1,763
1998	83	149	-	4	236	424	426	2,528	9,167	12,545	279	1,404	2,099	4,393	8,175	300	1,133	1,340	-	2,773
1999	108	136	-	1	245	568	751	6,284	1,160	8,763	260	843	5,997	2,088	9,188	242	748	976	-	1,966
2000	97	66	4	4	171	813	785	3,537	1,041	6,176	263	772	8,418	405	9,858	146	408	1,490	-	2,044
2001	15	145	18	26	204	1,028	1,275	15,942	2,825	21,070	183	641	12,540	107	13,471	391	1,130	1,727	-	3,248
2002	19	111	15	20	165	932	938	9,464	4,137	15,471	137	758	12,398	99	13,392	355	722	1,913	-	2,990
2003	12	141	54	0	207	583	346	5,301	288	6,518	118	833	14,498	372	15,821	279	406	4,682	-	5,367
2004	39	103	1	0	143	811	317	3,986	4,645	9,759	157	622	11,273	173	12,225	339	1,031	670	-	2,040
2005	80	79	-	0	159	863	295	3,854	8,667	13,679	199	496	12,127	224	13,046	439	276	676	-	1,391
2006	247	146	-	0	393	1,002	385	3,404	13,127	17,918	235	674	14,950	14,710	15,859	496	381	525	100	1,502
2007	174	183	6	17	380	1,266	350	6,905	7,827	16,348	343	395	16,902	16,655	17,640	828	675	2,169	120	3,792
2008	85	55	5	17	162	933	327	15,845	5,458	22,563	540	357	15,371	15,159	16,268	522	429	1,326	83	2,360
2009	63	42	10	16	131	1,923	476	17,136	51,328	70,863	279	339	16,682	16,578	17,300	1,034	374	1,877	202	3,487
2010	80	15	8	23	126	1,242	253	9,484	47,881	58,860	335	463	14,430	14,341	15,228	881	192	1,672	125	2,870
2011	71	24	8	0	103	1,291	386	12,438	20,935	35,050	280	316	16,549	16,486	17,145	507	219	1,486	319	2,531
2012	53	23	1	0	77	1,805	401	17,253	876	20,335	230	278	15,871	15,485	16,379	873	230	1,607	252	2,962
2013	17	17	1	-	35	1,448	489	10,559	718	13,214	216	323	14,622	190	15,161	1,389	370	1,612	248	3,619
2014	20	11	*	*	31	1,761	370	*	*	2,131	247	475	*	*	722	1,450	438	*	*	1,888

TABLE A-3a. Catches of yellowfin tuna by purse-seine vessels in the EPO, by vessel flag. The data have been adjusted to the species composition estimate, and are preliminary. *: data missing or not available; -: no data collected; C: data combined with those of other flags; this category is used to avoid revealing the operations of individual vessels or companies.

TABLA A-3a. Capturas de atún aleta amarilla por buques de cerco en el OPO, por bandera del buque. Los datos están ajustados a la estimación de composición por especie, y son preliminares. *: datos faltantes o no disponibles; -: datos no tomados; C: datos combinados con aquéllos de otras banderas; se usa esta categoría para no revelar información sobre las actividades de buques o empresas individuales.

	COL	CRI	ECU	EU(ESP)	MEX	NIC	PAN	PER	SLV	USA	VEN	VUT	C + OTR ¹	Total
1985	-	2,785	8,794	C	80,422	-	10,887	C	-	84,364	20,696	C	3,511	211,459
1986	-	C	16,561	C	103,644	-	9,073	C	C	88,617	28,462	C	14,155	260,512
1987	-	-	15,046	C	96,182	-	C	C	C	95,506	34,237	C	21,037	262,008
1988	-	-	23,947	C	104,565	-	7,364	1,430	C	82,231	38,257	C	19,499	277,293
1989	-	C	17,588	C	116,928	-	10,557	1,724	C	73,688	42,944	C	14,567	277,996
1990	C	C	16,279	C	115,898	-	6,391	C	-	50,790	47,490	22,208	4,197	263,253
1991	C	-	15,011	C	115,107	-	1,731	C	-	18,751	45,345	29,687	5,625	231,257
1992	C	-	12,119	C	118,455	-	3,380	45	-	16,961	44,336	27,406	5,419	228,121
1993	3,863	-	18,094	C	101,792	-	5,671	-	-	14,055	43,522	24,936	7,559	219,492
1994	7,533	-	18,365	C	99,618	-	3,259	-	-	8,080	41,500	25,729	4,324	208,408
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	253,263
2001	12,950	-	55,347	18,448	130,087	C	9,552	-	C	5,670	108,974	10,729	32,180	383,936
2002	17,574	-	32,512	16,990	152,864	C	15,719	C	7,412	7,382	123,264	7,502	31,068	412,286
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	272,557
2005	C	-	40,596	11,947	110,898	4,838	33,393	-	6,470	C	28,684	C	31,276	268,101
2006	C	-	26,049	8,409	69,449	4,236	22,521	-	C	C	13,286	C	22,679	166,631
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	43,744	236,772
2010	20,493	-	34,764	2,820	104,969	9,422	34,538	C	C	-	21,244	C	22,758	251,009
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	16,570	-	27,725	516	113,619	8,280	18,428	C	C	-	24,962	C	7,158	217,258
2014	17,220	-	37,675	768	120,996	8,151	19,446	C	C	C	22,900	-	5,733	232,889

¹ Includes—Include: BLZ, BOL, CHN, CYM, CYP, GTM, HND, KOR, LBR, NZL, RUS, VCT, UNK

TABLE A-3b. Annual catches of yellowfin tuna by longline vessels, and totals for all gears, in the EPO, by vessel flag. The data for 2013-2014 are preliminary. *: data missing or not available; -: no data collected; C: data combined with those of other flags; this category is used to avoid revealing the operations of individual vessels or companies.

TABLA A-3b. Capturas anuales de atún aleta amarilla por buques de palangre en el OPO, y totales de todas las artes, por bandera del buque. Los datos de 2013-2014 son preliminares. *: datos faltantes o no disponibles; -: datos no tomados; C: datos combinados con aquéllos de otras banderas; se usa esta categoría para no revelar información sobre las actividades de buques o empresas individuales.

	CHN	CRI	FRA-PYF	JPN	KOR	MEX	PAN	TWN	USA	VUT	C + OTR ¹	Total LL	Total PS+LL	OTR ²
1985	-	-	-	10,633	2,505	2	-	58	-	-	*	13,198	224,657	1,282
1986	-	-	-	17,770	4,850	68	-	120	-	-	*	22,808	283,320	2,751
1987	-	-	-	13,484	5,048	272	-	107	-	-	*	18,911	280,919	5,245
1988	-	-	-	12,481	1,893	232	-	54	-	-	*	14,660	291,953	4,475
1989	-	-	-	15,335	1,162	9	-	526	-	-	*	17,032	295,028	4,408
1990	-	-	-	29,255	4,844	-	-	534	-	-	*	34,633	297,886	3,636
1991	-	169	-	23,721	5,688	-	-	1,319	2	-	*	30,899	262,156	3,814
1992	-	119	57	15,296	2,865	-	-	306	3	-	*	18,646	246,767	5,747
1993	-	200	39	20,339	3,257	C	-	155	17	-	2	24,009	243,501	7,985
1994	-	481	214	25,983	3,069	41	-	236	2	-	*	30,026	238,434	5,112
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	1	1,782	2,422	7	223	182	12,118	280,219	3,674
2006	246	1,402	537	2,968	-	0	2,164	1,671	21	199	108	9,316	175,947	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	167	1,842	9,812	194,869	1,755
2009	629	1,003	590	4,268	780	10	-	636	84	259	2,200	10,459	247,231	1,703
2010	459	3	301	3,639	737	6	-	872	54	259	1,999	8,329	259,338	1,418
2011	1,807	-	349	2,373	754	6	-	647	55	173	1,907	8,071	214,922	1,082
2012	2,591	1,482	538	3,600	631	7	519	749	39	155	2,643	12,954	210,971	1,636
2013	1,874	769	410	3,110	928	2	959	572	44	78	1,603	10,349	227,607	1,619
2014	*	*	*	*	*	*	*	*	*	*	*	*	232,889	*

¹ Includes—Incluye: BLZ, CHL, ECU, EU(ESP), GTM, HND, NIC, SLV

² Includes gillnets, pole-and-line, recreational, troll and unknown gears—Incluye red de transmalle, caña, artes deportivas, y desconocidas

TABLE A-3c. Catches of skipjack tuna by purse-seine and longline vessels in the EPO, by vessel flag. The data have been adjusted to the species composition estimate, and are preliminary. *: data missing or not available; -: no data collected; C: data combined with those of other flags; this category is used to avoid revealing the operations of individual vessels or companies.

TABLE A-3c. Capturas de atún barrilete por buques de cerco y de palangre en el OPO, por bandera del buque. Los datos están ajustados a la estimación de composición por especie, y son preliminares. *: datos faltantes o no disponibles; -: datos no tomados; C: datos combinados con aquéllos de otras banderas; se usa esta categoría para no revelar información sobre las actividades de buques o empresas individuales.

	PS														LL+ OTR ²
	COL	CRI	ECU	EU(ESP)	MEX	NIC	PAN	PER	SLV	USA	VEN	VUT	C+OTR ¹	Total	
1985	-	87	22,806	C	5,334	-	1,197	-	-	9,907	8,184	C	3,314	50,829	1,173
1986	-	C	23,836	C	6,061	-	1,134	C	C	12,978	11,797	C	9,828	65,634	2,111
1987	-	-	20,473	C	4,786	-	C	C	C	13,578	11,761	C	13,421	64,019	2,447
1988	-	-	11,743	C	15,195	-	1,863	714	C	36,792	12,312	C	8,494	87,113	5,014
1989	-	C	22,922	C	14,960	-	4,361	276	-	21,115	16,847	C	14,453	94,934	3,987
1990	C	C	24,071	C	6,696	-	3,425	C	-	13,188	11,362	11,920	3,707	74,369	2,738
1991	C	-	18,438	C	10,916	-	1,720	C	-	13,162	5,217	9,051	3,724	62,228	3,662
1992	C	-	25,408	C	9,188	-	3,724	352	-	14,108	10,226	13,315	7,962	84,283	3,011
1993	3,292	-	21,227	C	13,037	-	1,062	-	-	17,853	7,270	10,908	9,181	83,830	6,089
1994	7,348	-	15,083	C	11,783	-	2,197	-	-	8,947	6,356	9,541	8,871	70,126	4,044
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	205,647	365
2001	9,445	-	66,144	13,454	8,169	C	6,967	-	C	4,135	3,215	7,824	23,813	143,165	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	2,349
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	296,268	1,645
2007	C	-	93,553	2,879	21,542	4,286	28,475	-	C	C	21,990	C	35,571	208,295	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	2,847
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	3,720
2013	22,089	-	172,080	2,904	17,185	4,329	30,951	C	C	-	17,410	C	11,143	278,091	2,955
2014	22,806	-	173,048	5,570	8,789	6,353	22,002	C	C	C	13,861	-	9,236	261,665	*

¹ Includes—Incluye: BLZ, BOL, CHN, CYM, CYP, GTM, HND, KOR, LBR, NZL, RUS, VCT, UNK

² Includes gillnets, pole-and-line, recreational, and unknown gears—Incluye red de trasmalle, caña, artes deportivas y desconocidas

TABLE A-3d. Catches of bigeye tuna by purse-seine vessels in the EPO, by vessel flag. The data have been adjusted to the species composition estimate, and are preliminary. *: data missing or not available; -: no data collected; C: data combined with those of other flags; this category is used to avoid revealing the operations of individual vessels or companies.

TABLA A-3d. Capturas de atún patudo por buques de cerco en el OPO, por bandera del buque. Los datos están ajustados a la estimación de composición por especie, y son preliminares. *: datos faltantes o no disponibles; -: datos no tomados; C: datos combinados con aquéllos de otras banderas; se usa esta categoría para no revelar información sobre las actividades de buques o empresas individuales.

	COL	CRI	ECU	EU(ESP)	MEX	NIC	PAN	PER	SLV	USA	VEN	VUT	C + OTR ¹	Total
1985	-	17	2,970	C	19	-	-	-	-	1,806	939	C	305	6,056
1986	-	-	653	C	1	-	-	-	-	266	1,466	C	300	2,686
1987	-	-	319	C	2	-	*	-	C	224	453	C	179	1,177
1988	-	-	385	C	-	-	431	*	C	256	202	C	261	1,535
1989	-	-	854	C	-	-	-	*	-	172	294	C	710	2,030
1990	-	-	1,619	C	29	-	196	-	-	209	1,405	2,082	381	5,921
1991	-	-	2,224	C	5	-	-	-	-	50	591	1,839	161	4,870
1992	-	-	1,647	C	61	-	38	*	-	3,002	184	1,397	850	7,179
1993	686	-	2,166	C	120	-	10	*	-	3,324	253	1,848	1,250	9,657
1994	5,636	-	5,112	C	171	-	-	*	-	7,042	637	8,829	7,472	34,899
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	95,282
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	57,421
2003	3,664	-	22,896	4,605	0	-	6,222	C	C	1,350	424	3,500	10,390	53,052
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	83,838
2007	C	-	40,445	711	0	1,058	7,029	*	C	C	5,428	C	8,780	63,450
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	76,799
2010	4,206	-	34,902	579	11	1,934	7,089	C	C	-	4,360	C	4,672	57,752
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	1,390	-	32,217	1,662	122	2,720	6,062	-	C	-	952	C	4,301	49,426
2014	2,370	-	37,958	2,753	38	2,935	8,118	-	C	C	1,191	-	4,237	59,600

¹ Includes—Incluye: BLZ, BOL, CHN, CYM, CYP, GTM, HND, LBR, NZL, VCT, UNK

TABLE A-3e. Annual catches of bigeye tuna by longline vessels, and totals for all gears, in the EPO, by vessel flag. The data for 2013-2014 are preliminary. *: data missing or not available; -: no data collected; C: data combined with those of other flags; this category is used to avoid revealing the operations of individual vessels or companies.

TABLA A-3e. Capturas anuales de atún patudo por buques de palangre en el OPO, y totales de todas las artes, por bandera del buque. Los datos de 2013-2014 son preliminares. *: datos faltantes o no disponibles; -: datos no tomados; C: datos combinados con aquéllos de otras banderas; se usa esta categoría para no revelar información sobre las actividades de buques o empresas individuales.

	CHN	CRI	FRA-PYF	JPN	KOR	MEX	PAN	TWN	USA	VUT	C + OTR ¹	Total LL	Total PS + LL	OTR ²
1985	-	-	-	61,627	4,510	0	-	188	-	-	*	66,325	72,381	17
1986	-	-	-	91,981	10,187	0	-	257	-	-	*	102,425	105,111	74
1987	-	-	-	87,913	11,681	1	-	526	-	-	*	100,121	101,298	49
1988	-	-	-	66,015	6,151	1	-	591	-	-	*	72,758	74,293	20
1989	-	-	-	67,514	3,138	-	-	311	-	-	*	70,963	72,993	1
1990	-	-	-	86,148	12,127	-	-	596	-	-	*	98,871	104,792	59
1991	-	1	-	85,011	17,883	-	-	1,291	9	-	*	104,195	109,065	56
1992	-	9	7	74,466	9,202	-	-	1,032	92	-	*	84,808	91,987	13
1993	-	25	7	63,190	8,924	*	-	297	55	-	*	72,498	82,155	35
1994	-	1	102	61,471	9,522	-	-	255	9	-	*	71,360	106,259	806
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	1,001	151	41,377	109,272	25
2006	709	18	388	16,235	8,694	-	37	6,412	85	1,029	195	33,802	117,640	40
2007	2,324	15	361	13,977	5,611	-	-	6,057	417	992	101	29,855	93,305	44
2008	2,379	16	367	14,908	4,150	-	-	1,852	1,277	731	468	26,148	101,176	28
2009	2,481	13	484	15,490	6,758	-	-	3,396	730	1,130	1,038	31,520	108,319	15
2010	2,490	4	314	15,847	9,244	-	-	5,276	1,356	1,439	1,057	37,029	94,781	2
2011	5,450	-	445	13,399	6,617	-	-	3,957	1,050	1,006	706	32,630	89,142	-
2012	4,386	3	464	16,323	7,450	-	-	4,999	875	1,019	603	36,122	102,142	8
2013	5,199	224	527	11,908	8,822	-	-	4,162	2,056	439	578	33,915	83,341	17
2014	7,465	*	*	14,405	7,584	*	*	4,749	476	570	*	35,249	94,849	*

¹ Includes—Incluye: BLZ, CHL, ECU, EU(ESP), HND, SLV

² Includes gillnets, pole-and-line, recreational, and unknown gears—Incluye red de transmalle, caña, artes deportivas, y desconocidas

TABLE A-4. Preliminary estimates of the retained catches in metric tons, of tunas and bonitos caught by purse-seine vessels in the EPO in 2013 and 2014, 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-4. Estimaciones preliminares de las capturas retenidas, en toneladas métricas, de atunes y bonitos por buques cerqueros en el OPO en 2013 y 2014, 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	%
2013	Retained catches–Capturas retenidas									
COL	16,570	22,089	1,390	-	-	14	-	-	40,063	7.2
ECU	27,725	172,080	32,217	-	-	629	802	18	233,471	42.2
EU(ESP)	516	2,904	1,662	-	-	-	-	-	5,082	0.9
MEX	113,619	17,185	122	3,154	-	2,858	1,260	16	138,214	25.0
NIC	8,280	4,329	2,720	-	-	-	-	-	15,329	2.8
PAN	18,428	30,951	6,062	-	-	40	-	-	55,481	10.0
VEN	24,962	17,410	952	-	-	13	-	6	43,343	7.8
OTR ¹	7,158	11,143	4,301	-	-	-	1	13	22,616	4.1
Total	217,258	278,091	49,426	3,154	-	3,554	2,063	53	553,599	
2014	Retained catches–Capturas retenidas									
COL	17,220	22,806	2,370	-	-	10	-	-	42,406	7.5
ECU	37,675	173,048	37,958	-	-	674	1,855	67	251,277	44.5
EU(ESP)	768	5,570	2,753	-	-	-	-	-	9,091	1.6
MEX	120,996	8,789	38	4,862	-	3,391	964	48	139,088	24.4
NIC	8,151	6,353	2,935	-	-	1	-	-	17,440	3.1
PAN	19,446	22,002	8,118	-	-	5	2	-	49,573	8.8
VEN	22,900	13,861	1,191	-	-	2	-	-	37,954	6.7
OTR ²	5,733	9,236	4,237	-	-	-	-	-	19,206	3.4
Total	232,889	261,665	59,600	4,862	-	4,083	2,821	115	566,035	

¹ Includes El Salvador, Guatemala, Peru and Vanuatu. This category is used to avoid revealing the operations of individual vessels or companies.

¹ Incluye El Salvador, Guatemala, Perú y Vanuatu. Se usa esta categoría para no revelar información sobre las actividades de buques o empresas individuales.

² Includes El Salvador, Guatemala, Peru and United States. This category is used to avoid revealing the operations of individual vessels or companies.

² Incluye El Salvador, Estados Unidos, Guatemala y Perú. 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. The data for 2013 and 2014 are preliminary.

TABLA A-5a. Capturas retenidas anuales de atún aleta azul del Pacífico, por arte de pesca y bandera, en toneladas métricas. Los datos de 2013 y 2014 son preliminares.

PBF	Western Pacific flags—Banderas del Pacífico occidental ¹										Eastern Pacific flags—Banderas del Pacífico oriental						Total
	JPN				KOR ¹		TWN			Sub-total	MEX		USA		Sub-total	OTR	
	PS	LP	LL	OTR	PS	OTR	PS	LL	OTR		PS	OTR	PS	OTR			
1985	4,154	1,817	105	5,587	1	-	80	210	11	11,965	676	-	3,320	77	4,073	-	16,038
1986	7,412	1,086	102	5,100	344	-	16	70	13	14,143	189	-	4,851	64	5,104	-	19,247
1987	8,653	1,565	211	3,523	89	13	21	365	14	14,454	119	-	861	87	1,067	-	15,521
1988	3,605	907	157	2,465	32	-	197	108	62	7,533	447	1	923	51	1,422	9	8,964
1989	6,190	754	209	1,934	71	-	259	205	54	9,676	57	-	1,046	96	1,199	-	10,875
1990	2,989	536	309	2,421	132	-	149	189	315	7,040	50	-	1,380	164	1,594	-	8,634
1991	9,808	286	218	4,204	265	-	-	342	119	15,242	9	-	410	55	474	-	15,716
1992	7,162	166	513	3,204	288	-	73	464	8	11,878	-	-	1,928	148	2,076	-	13,954
1993	6,600	129	812	1,759	40	-	1	471	3	9,815	-	-	580	316	896	-	10,711
1994	8,131	162	1,206	5,667	50	-	-	559	-	15,775	63	2	906	115	1,086	-	16,861
1995	18,909	270	678	7,223	821	-	-	335	2	28,238	11	-	649	275	935	-	29,173
1996	7,644	94	901	5,359	102	-	-	956	0	15,056	3,700	-	4,633	90	8,423	-	23,479
1997	13,152	34	1,300	4,354	1,054	-	-	1,814	0	21,708	367	-	2,240	245	2,852	-	24,560
1998	5,391	85	1,255	4,450	188	-	-	1,910	0	13,279	1	-	1,771	597	2,369	-	15,648
1999	16,173	35	1,157	5,246	256	-	-	3,089	0	25,956	2,369	35	184	617	3,205	-	29,161
2000	16,486	102	953	7,031	2,401	-	-	2,780	2	29,755	3,019	99	693	353	4,164	-	33,919
2001	7,620	180	791	5,614	1,176	-	-	1,839	4	17,224	863	-	292	384	1,539	131	18,894
2002	8,903	99	841	4,338	932	-	-	1,523	4	16,640	1,708	2	50	622	2,382	67	19,089
2003	5,768	44	1,237	3,345	2,601	-	-	1,863	21	14,879	3,211	43	22	372	3,648	42	18,569
2004	8,257	132	1,847	3,855	773	-	-	1,714	3	16,581	8,880	14	-	59	8,953	-	25,534
2005	12,817	549	1,925	6,363	1,318	-	-	1,368	2	24,342	4,542	-	201	80	4,823	-	29,165
2006	8,880	108	1,121	4,058	1,012	-	-	1,149	1	16,329	9,927	-	-	93	10,020	-	26,349
2007	6,840	236	2,087	5,535	1,281	-	-	1,401	10	17,390	4,147	-	42	14	4,203	-	21,593
2008	10,221	64	1,495	5,927	1,866	-	-	979	2	20,554	4,392	15	-	63	4,470	-	25,024
2009	8,077	50	1,312	5,152	936	-	-	877	11	16,415	3,019	-	410	158	3,587	-	20,002
2010	3,742	83	908	4,104	1,196	-	-	373	36	10,442	7,746	-	-	88	7,834	-	18,276
2011	8,340	63	942	4,125	670	-	-	292	24	14,456	2,730	1	99	242	3,072	-	17,528
2012	2,462	113	798	3,281	1,421	-	-	210	4	8,289	6,667	1	38	399	7,105	-	15,394
2013	2,771	8	740	3,495	604	-	-	331	3	7,952	3,154	-	-	808	3,962	-	11,914
2014	*	*	*	*	*	*	*	*	*	*	4,862	*	*	392	5,254	-	10,508

¹ Source: International Scientific Committee, 14th Plenary Meeting, PBFWG workshop report on Pacific Bluefin Tuna, July 2014—Fuente: Comité Científico Internacional, 14^a Reunión Plenaria, Taller PBFWG sobre Atún Aleta Azul del Pacífico, julio de 2014

TABLE A-5b. Reported catches of Pacific bluefin tuna in the EPO by recreational gear, in number of fish.

TABLA A-5b. Capturas reportadas de atún aleta azul del Pacífico en el OPO por artes deportivas, en número de peces.

PBF	Number of fish Número de peces	PBF	Number of fish Número de peces
1985	5,148	2000	20,669
1986	693	2001	21,913
1987	1,951	2002	33,399
1988	330	2003	22,291
1989	6,519	2004	3,391
1990	3,755	2005	5,757
1991	5,330	2006	7,473
1992	8,586	2007	1,028
1993	10,535	2008	10,187
1994	2,243	2009	12,138
1995	16,025	2010	8,453
1996	2,739	2011	31,494
1997	8,338	2012	40,012
1998	20,466	2013	63,158
1999	36,797	2014	26,105

TABLE A-6a. Annual retained catches of North Pacific albacore by region and gear, in metric tons, compiled from IATTC data (EPO) and SPC data (WCPO). The data for 2012 and 2013 are preliminary.

TABLA A-6a. Capturas retenidas anuales de atún albacora del Pacífico Norte por región, en toneladas métricas, compiladas de datos de la CIAT (OPO) y la SPC (WCPO). Los datos de 2012 y 2013 son preliminares.

ALB (N)	Eastern Pacific Ocean Océano Pacífico oriental					Western and central Pacific Ocean Océano Pacífico occidental y central					Total
	LL	LP	LTL	OTR	Subtotal	LL	LP	LTL	OTR	Subtotal	
1985	1,313	877	5,308	1,218	8,716	13,468	21,335	1,163	13,729	49,695	58,411
1986	698	86	4,282	243	5,309	12,442	16,442	456	10,695	40,035	45,344
1987	1,114	320	2,300	172	3,906	14,297	18,920	570	11,337	45,124	49,030
1988	899	271	4,202	81	5,453	14,702	6,543	165	18,887	40,297	45,750
1989	952	21	1,852	161	2,986	13,584	8,662	148	19,825	42,219	45,205
1990	1,143	170	2,440	63	3,816	15,465	8,477	465	26,096	50,503	54,319
1991	1,514	834	1,783	6	4,137	16,535	6,269	201	10,792	33,797	37,934
1992	1,635	255	4,515	2	6,407	18,356	13,633	419	16,578	48,986	55,393
1993	1,772	1	4,331	25	6,129	29,371	12,796	2,417	4,087	48,671	54,800
1994	2,356	85	9,581	106	12,128	28,469	26,304	3,553	3,380	61,706	73,834
1995	1,380	465	7,308	102	9,255	31,568	20,596	3,450	1,623	57,237	66,492
1996	1,675	72	8,195	99	10,041	37,708	20,224	13,654	971	72,557	82,598
1997	1,365	59	6,056	1,019	8,499	47,000	32,252	12,618	1,717	93,587	102,086
1998	1,730	81	11,938	1,250	14,999	46,320	22,924	8,136	1,987	79,367	94,366
1999	2,701	227	10,801	3,668	17,397	44,066	50,202	3,052	7,487	104,807	122,204
2000	1,880	86	10,874	1,869	14,709	39,735	21,533	4,371	3,116	68,755	83,464
2001	1,822	157	11,570	1,638	15,187	35,922	29,412	5,168	1,364	71,866	87,053
2002	1,227	381	11,905	2,388	15,901	32,684	48,451	4,418	3,831	89,384	105,285
2003	1,129	59	17,749	2,260	21,197	32,164	36,114	4,137	924	73,339	94,536
2004	854	126	20,162	1,623	22,765	29,321	32,254	2,093	7,354	71,022	93,787
2005	643	66	13,752	1,741	16,202	32,385	16,133	315	1,442	50,275	66,477
2006	3,482	1	18,514	408	22,405	30,788	15,422	417	729	47,356	69,761
2007	2,520	21	17,927	1,415	21,883	29,251	37,768	719	5,023	72,761	94,644
2008	1,085	1,050	16,135	308	18,578	27,284	18,010	1,766	2,617	49,677	68,255
2009	1,063	2,218	16,268	728	20,277	27,739	31,172	2,899	2,027	64,837	84,114
2010	1,482	-	19,161	753	21,396	26,893	19,561	588	135	47,177	68,573
2011	1,984	-	16,382	466	18,832	33,414	26,704	513	611	61,242	80,074
2012	6,817	-	16,681	1,222	24,720	29,151	33,742	575	3,620	67,088	91,808
2013	7,733	-	17,421	844	25,998	26,218	33,742	2,423	4,489	66,872	92,870

TABLE A-6b. Annual retained catches of South Pacific albacore by region, in metric tons, compiled from IATTC data (EPO) and SPC data (WCPO). The data for 2012 and 2013 are preliminary.

TABLA A-6b. Capturas retenidas anuales de atún albacora del Pacífico Sur por región, en toneladas métricas, compiladas de datos de la CIAT (OPO) y la SPC (WCPO). Los datos de 2012 y 2013 son preliminares.

ALB (S)	Eastern Pacific Ocean Océano Pacífico oriental				Western and central Pacific Ocean Océano Pacífico occidental y central					Total
	LL	LTL	OTR	Subtotal	LL	LP	LTL	OTR	Subtotal	
1985	5,955	0	170	6,125	21,183	0	3,253	1,767	26,203	32,328
1986	5,752	74	149	5,975	26,889	0	1,929	1,797	30,615	36,590
1987	8,880	188	3	9,071	13,099	9	1,946	927	15,981	25,052
1988	9,035	1,282	0	10,317	19,253	0	3,014	5,283	27,550	37,867
1989	5,832	593	90	6,515	12,906	0	7,777	21,878	42,561	49,076
1990	5,393	1,336	306	7,035	15,911	245	5,639	7,232	29,027	36,062
1991	6,379	795	170	7,344	19,913	14	7,010	1,319	28,256	35,600
1992	15,445	1,205	18	16,668	16,569	11	5,373	47	22,000	38,668
1993	9,422	35	19	9,476	21,576	74	4,261	51	25,962	35,438
1994	8,034	446	22	8,502	26,964	67	6,718	67	33,816	42,318
1995	4,805	2	15	4,822	25,703	139	7,714	89	33,645	38,467
1996	5,956	94	21	6,071	20,807	30	7,316	135	28,288	34,359
1997	8,313	466	0	8,779	26,344	21	4,213	133	30,711	39,490
1998	10,905	12	0	10,917	33,065	36	6,268	85	39,454	50,371
1999	8,932	81	7	9,020	27,023	138	3,366	67	30,594	39,614
2000	7,783	778	3	8,564	32,859	102	5,677	136	38,774	47,338
2001	17,588	516	5	18,109	35,267	37	4,737	194	40,235	58,344
2002	14,062	131	40	14,233	54,349	18	4,530	110	59,007	73,240
2003	23,772	419	3	24,194	32,579	12	5,565	127	38,283	62,477
2004	17,590	331	0	17,921	39,434	110	4,283	123	43,950	61,871
2005	10,754	181	7	10,942	49,143	29	3,322	130	52,624	63,566
2006	10,246	48	119	10,413	49,097	29	2,836	69	52,031	62,444
2007	8,511	19	87	8,617	47,989	17	1,995	0	50,001	58,618
2008	7,878	0	159	8,037	51,188	12	3,502	1	54,703	62,740
2009	11,124	0	213	11,337	69,514	21	2,031	0	71,566	82,903
2010	12,406	0	246	12,652	74,193	14	2,139	0	76,346	88,998
2011	17,969	0	222	18,191	45,055	30	3,189	11	48,285	66,476
2012	16,641	0	210	16,851	68,003	41	2,962	38	71,044	87,895
2013	16,802	0	271	17,073	64,533	26	3,226	0	67,785	84,858

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 2014 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 2014 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 on fish associated with dolphins Lances sobre peces asociados a delfines					
1999	0	8,648	8,648	143,128	1,705	5
2000	0	9,235	9,235	146,533	540	15
2001	0	9,876	9,876	238,629	1,802	6
2002	0	12,290	12,290	301,099	3,180	2
2003	0	13,760	13,760	265,512	13,332	1
2004	0	11,783	11,783	177,460	10,730	3
2005	0	12,173	12,173	166,211	12,127	2
2006	0	8,923	8,923	91,978	4,787	0
2007	0	8,871	8,871	97,032	3,277	7
2008	0	9,246	9,246	122,105	8,382	5
2009	0	10,910	10,910	178,436	2,719	1
2010	0	11,645	11,645	168,984	1,627	4
2011	0	9,604	9,604	134,839	4,372	2
2012	0	9,220	9,220	133,716	2,120	0
2013	0	10,736	10,736	156,731	4,249	0
2014	0	11,382	11,382	167,429	4,211	3
OBJ	Sets on fish associated with floating objects Lances sobre peces asociados a objetos flotantes					
1999	630	4,483	5,113	43,341	181,636	49,330
2000	508	3,713	4,221	42,522	121,723	92,966
2001	827	5,674	6,501	67,200	122,363	59,748
2002	867	5,771	6,638	38,057	116,793	55,901
2003	706	5,457	6,163	30,307	181,214	51,296
2004	615	4,986	5,601	28,340	117,212	64,005
2005	639	4,992	5,631	26,126	133,509	66,257
2006	1,158	6,862	8,020	34,313	191,093	82,136
2007	1,384	5,857	7,241	29,619	122,286	62,189
2008	1,819	6,655	8,474	34,819	157,274	73,855
2009	1,821	7,077	8,898	36,136	157,067	75,888
2010	1,788	6,399	8,187	38,113	113,716	57,167
2011	2,538	6,921	9,459	42,189	170,986	55,589
2012	3,067	7,610	10,677	37,527	177,239	65,040
2013	3,075	8,038	11,113	34,943	194,151	48,279
2014	3,768	8,777	12,545	45,309	199,445	58,951

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				
NOA	Sets on unassociated schools Lances sobre cardúmenes no asociados					
1999	5,632	6,139	11,771	95,451	78,224	1,823
2000	5,497	5,472	10,969	64,208	83,384	2,301
2001	4,022	3,024	7,046	78,107	19,000	764
2002	4,938	3,442	8,380	73,130	33,573	1,518
2003	7,274	5,131	12,405	87,460	79,422	1,755
2004	4,969	5,696	10,665	66,757	69,882	1,463
2005	6,109	7,816	13,925	75,764	117,593	1,636
2006	6,189	8,443	14,632	40,340	100,388	1,702
2007	4,845	7,211	12,056	43,365	82,732	1,254
2008	4,771	6,210	10,981	28,133	130,947	1,168
2009	3,308	4,109	7,417	22,200	70,737	910
2010	2,252	3,886	6,138	43,912	31,849	581
2011	2,840	5,182	8,022	29,823	100,677	921
2012	2,996	5,369	8,365	26,774	86,856	980
2013	3,058	4,156	7,214	25,584	79,691	1,147
2014	2,402	3,369	5,771	20,151	58,009	646
ALL	Sets on all types of schools Lances sobre todos tipos de cardumen					
1999	6,262	19,270	25,532	281,920	261,565	51,158
2000	6,005	18,420	24,425	253,263	205,647	95,282
2001	4,849	18,574	23,423	383,936	143,165	60,518
2002	5,805	21,503	27,308	412,286	153,546	57,421
2003	7,980	24,348	32,328	383,279	273,968	53,052
2004	5,584	22,465	28,049	272,557	197,824	65,471
2005	6,748	24,981	31,729	268,101	263,229	67,895
2006	7,347	24,228	31,575	166,631	296,268	83,838
2007	6,229	21,939	28,168	170,016	208,295	63,450
2008	6,590	22,111	28,701	185,057	296,603	75,028
2009	5,129	22,096	27,225	236,772	230,523	76,799
2010	4,040	21,930	25,970	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	6,133	22,930	29,063	217,258	278,091	49,426
2014	6,170	23,528	29,698	232,889	261,665	59,600

TABLE A-8. Types of floating objects involved in sets by vessels of >363 t carrying capacity. The 2014 data are preliminary.

TABLA A-8. Tipos de objetos flotantes sobre los que realizaron lances buques de >363 t de capacidad de acarreo. Los datos de 2014 son preliminares.

OBJ	Flotsam Naturales		FADs Plantados		Unknown Desconocido		Total
	No.	%	No.	%	No.	%	
1999	831	18.5	3,632	81.0	20	0.4	4,483
2000	488	13.1	3,187	85.8	38	1.0	3,713
2001	592	10.4	5,058	89.1	24	0.4	5,674
2002	778	13.5	4,966	86.1	27	0.5	5,771
2003	715	13.1	4,722	86.5	20	0.4	5,457
2004	586	11.8	4,370	87.6	30	0.6	4,986
2005	603	12.1	4,281	85.8	108	2.2	4,992
2006	697	10.2	6,123	89.2	42	0.6	6,862
2007	597	10.2	5,188	88.6	72	1.2	5,857
2008	560	8.4	6,070	91.2	25	0.4	6,655
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	270	3.1	8,503	96.9	4	< 0.1	8,777

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.

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.

LL	CHN		JPN		KOR		PYF		TWN		USA		OTR ¹
	E	C	E	C	E	C	E	C	E	C	E	C	
1985	-	-	106,761	74,348	19,799	10,508	-	-	3,126	1,979	-	-	2
1986	-	-	160,572	111,672	30,778	17,432	-	-	4,874	2,569	-	-	68
1987	-	-	188,386	104,053	36,436	19,405	-	-	12,267	5,335	-	-	273
1988	-	-	182,709	82,383	43,056	10,172	-	-	9,567	4,590	-	-	234
1989	-	-	170,370	84,961	43,365	4,879	-	-	16,360	4,962	-	-	9
1990	-	-	178,414	117,923	47,167	17,415	-	-	12,543	4,755	-	-	-
1991	-	-	200,374	112,337	65,024	24,644	-	-	17,969	5,862	42	12	173
1992	-	-	191,300	93,011	45,634	13,104	199	89	33,025	14,142	325	106	128
1993	-	-	159,956	87,977	46,375	12,843	153	79	18,064	6,566	415	81	227
1994	-	-	163,999	92,606	44,788	13,250	1,373	574	12,588	4,883	303	25	523
1995	-	-	129,599	69,435	54,979	12,778	1,776	559	2,910	1,639	828	180	562
1996	-	-	103,649	52,298	40,290	14,121	2,087	931	5,830	3,553	510	182	185
1997	-	-	96,385	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	-	-	80,950	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	15,614
2002	34,889	10,398	103,919	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	8,146
2006	588	969	56,525	21,432	*	8,752	11,786	3,220	38,134	12,375	234	121	10,201
2007	12,226	2,624	45,972	20,514	10,548	6,037	9,672	3,753	22,244	9,498	2,689	436	6,328
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	8,909
2009	10,536	3,435	41,517	21,492	18,364	7,615	10,686	4,032	13,904	6,366	5,141	852	11,958
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	10,964
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	11,713
2012	55,508	14,462	55,587	22,214	20,338	8,286	8,806	3,589	20,519	11,924	5,822	986	13,451
2013	70,411	18,128	49,501	16,318	31,702	10,248	11,189	3,303	18,353	11,722	10,765	2,129	8,685

¹ 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 2014 are preliminary.

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 2014 son preliminares.

	PS		LP		Total	
	No.	Vol. (m ³)	No.	Vol. (m ³)	No.	Vol. (m ³)
1985	176	136,845	26	2,595	202	139,440
1986	165	130,530	17	2,066	182	132,596
1987	173	148,713	29	2,383	202	151,096
1988	185	154,845	39	3,352	224	158,197
1989	176	141,956	32	3,181	208	145,137
1990	172	143,877	23	1,975	195	145,852
1991	152	124,062	22	1,997	174	126,059
1992	158	116,619	20	1,807	178	118,426
1993	151	117,593	15	1,550	166	119,143
1994	166	120,726	20	1,726	186	122,452
1995	175	123,798	20	1,784	195	125,582
1996	180	130,774	17	1,646	197	132,420
1997	194	147,926	23	2,127	217	150,053
1998	202	164,956	22	2,216	224	167,172
1999	208	178,724	14	1,642	222	180,366
2000	205	180,679	12	1,220	217	181,899
2001	204	189,088	10	1,259	214	190,347
2002	218	199,870	6	921	224	200,791
2003	214	202,381	3	338	217	202,719
2004	218	206,473	3	338	221	206,811
2005	220	212,419	4	498	224	212,917
2006	225	225,166	4	498	229	225,664
2007	227	225,359	4	380	231	225,739
2008	219	223,804	4	380	223	224,184
2009	221	224,632	4	380	225	225,012
2010	202	210,025	3	255	205	210,280
2011	208	213,237	3	339	211	213,576
2012	209	217,687	4	464	213	218,151
2013	203	212,087	3	268	206	212,355
2014	217	229,127	2	226	219	229,353

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 2013, 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 2013, 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 (m ³)					Total	
		<401	401-800	801-1300	1301-1800	>1800	No.	Vol. (m ³)
		Number—Número						
COL	PS	2	2	7	3	-	14	14,860
ECU	PS	34	30	21	6	11	102	80,611
EU(ESP)	PS	-	-	-	-	4	4	10,116
GTM	PS	-	-	-	1	-	1	1,475
MEX	PS	3	4	18	15	-	40	46,062
	LP	3	-	-	-	-	3	268
NIC	PS	-	-	3	4	-	7	9,966
PAN	PS	-	2	5	4	3	14	19,251
PER	PS	2	-	-	-	-	2	599
SLV	PS	-	-	-	1	3	4	7,892
VEN	PS	-	-	7	7	1	15	20,890
VUT	PS	-	-	-	1	-	1	1,360
Grand total—	PS	41	38	60	42	22	203	
Total general	LP	3	-	-	-	-	3	
	PS + LP	44	38	60	42	22	206	
Well volume—Volumen de bodega (m ³)								
Grand total—	PS	11,546	22,748	67,036	62,543	48,214		212,087
Total general	LP	268	-	-	-	-		268
	PS + LP	11,814	22,748	67,036	62,543	48,214		212,355

- : none—ninguno

TABLE A-11b. Estimates of the numbers and well volumes (cubic meters) of purse-seine (PS) and pole-and-line (LP) vessels that fished in the EPO in 2014 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) y cañeros (LP) que pescaron en el OPO en 2014, 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 (m ³)					Total	
		<401	401-800	801-1300	1301-1800	>1800	No.	Vol. (m ³)
		Number—Número						
COL	PS	2	2	7	3	-	14	14,860
ECU	PS	36	33	22	7	12	110	87,469
EU(ESP)	PS	-	-	-	-	4	4	10,116
GTM	PS	-	-	-	1	-	1	1,475
MEX	PS	3	4	18	20	-	45	54,206
	LP	2	-	-	-	-	2	226
NIC	PS	-	-	3	4	-	7	9,966
PAN	PS	-	2	4	4	4	14	19,865
PER	PS	-	2	-	-	-	2	1,137
SLV	PS	-	-	-	1	3	4	7,892
USA	PS	-	-	1	-	-	1	1,251
VEN	PS	-	-	7	7	1	15	20,890
Grand total—	PS	41	43	62	47	24	217	
Total general	LP	2	-	-	-	-	2	
	PS + LP	43	43	62	47	24	219	
		Well volume—Volumen de bodega (m ³)						
Grand total—	PS	11,505	25,997	69,465	70,687	51,473		229,127
Total general	LP	226	-	-	-	-		226
	PS + LP	11,731	25,997	69,465	70,687	51,473		229,353

- : 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 2004-2013 and in 2014, 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 2004-2013 y en 2014 por mes.

Month Mes	2004-2013			2014
	Min	Max	Ave.-Prom.	
1	88.6	157.7	118.7	86.9
2	144.3	175.3	155.8	168.9
3	135.4	159.9	147.5	147.9
4	142.0	165.0	152.6	152.7
5	134.9	164.4	151.5	150.6
6	149.0	175.0	159.7	156.3
7	152.2	170.4	161.5	165.2
8	62.2	120.3	103.7	123.6
9	105.5	137.7	117.8	117.6
10	147.0	172.2	162.2	168.2
11	101.9	150.8	126.4	123.8
12	45.9	105.8	63.8	57.6
Ave.-Prom.	117.4	154.5	135.1	134.9