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**INFORME ANUAL DE LOS OBSERVADORES CIENTÍFICOS EN LA PESCA CON  
PALANGRE DE CHINO EN EL ÁREA DE LA CONVENCION DE ANTIGUA  
(2024)**

CPC OBSERVER ANNUAL REPORT FOR THE YEAR 2024  
IN THE IATTC CONVENTION AREA  
CHINA

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## 1. Trip description

Longline is the only fishing gear for the Chinese tuna fishery in the EPO. For the year 2024, China conducted twenty-three longline observer trips in the IATTC convention area (east of 150°W). A total of 2562 fishing days were observed during the twenty-three trips (**Table 1**). Some of the Chinese observer trips for the EPO area were shared with those for the WCPFC area (west of 150°W), i.e., the same observer with the same longline vessel carried out the observations across the boundary of longitude line 150°W. Sets of the observer trips deployed in the WCPO areas were removed.

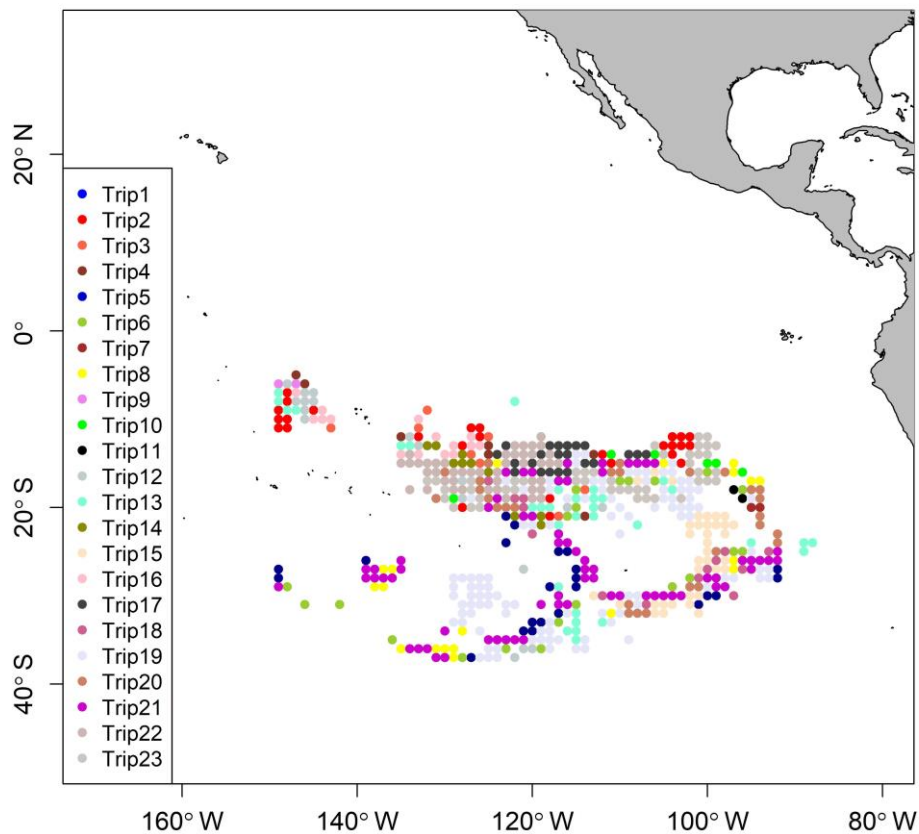
**Table 1 Information of twenty-three Chinese LL observer trips in the IATTC area in 2024**

Trips	Observed fishing days	Observed hooks	Observation period	Observation area
Trip 1	7	22700	Feb 1, 2024-Feb 7, 2024	18°~19°S, 105°~108°W
Trip 2	66	199997	Feb 1, 2024-Jul 31, 2024	6°~22°S, 113°~146°W
Trip 3	62	212598	Feb 1, 2024-Jul 30, 2024	5°~21°S, 113°~149°W
Trip 4	129	418872	Jun 15, 2024-Nov 29, 2024	21°~27°S, 92°~149°W
Trip 5	180	585264	May 27, 2024-Dec 31, 2024	15°~37°S, 92°~149°W
Trip 6	44	150375	Sep 20, 2024-Dec 28, 2024	15°~21°S, 94°~135°W
Trip 7	167	574098	Jun 2, 2024-Dec 30, 2024	15°~37°S, 92°~149°W
Trip 8	15	43286	Mar 19, 2024-Apr 4, 2024	6°~8°S, 146°~149°W
Trip 9	103	348117	Aug 14, 2024-Dec 31, 2024	15°~32°S, 92°~131°W
Trip 10	73	250380	Sep 23, 2024-Dec 31, 2024	14°~19°S, 96°~130°W
Trip 11	115	381342	Aug 14, 2024-Dec 31, 2024	17°~31°S, 93°~129°W
Trip 12	26	82865	Sep 15, 2024-Dec 31, 2024	16°~26°S, 95°~131°W
Trip 13	128	401975	Feb 10, 2024-Aug 11, 2024	6°~37°S, 109°~148°W
Trip 14	173	538100	Jun 4, 2024-Dec 31, 2024	14°~37°S, 92°~149°W
Trip 15	215	724022	Aug 2, 2023-Aug 15, 2024	7°~35°S, 88°~149°W

Trip 16	92	342981	Dec 4, 2023-Mar 20, 2024	13°~22°S, 118°~132°W
Trip 17	90	266923	Jul 18, 2024-Dec 13, 2024	14°~32°S, 97°~134°W
Trip 18	263	848594	Dec 30, 2023-Dec 31, 2024	14°~37°S, 93°~132°W
Trip 19	116	365430	Dec 30, 2023-Dec 31, 2024	14°~37°S, 93°~132°W
Trip 20	58	189410	Feb 20, 2024-Jun 25, 2024	7°~18°S, 125°~147°W
Trip 21	88	250354	Jun 29, 2024-Oct 9, 2024	13°~16°S, 105°~124°W
Trip 22	187	581746	Jun 29, 2024-Oct 9, 2024	13°~16°S, 102°~149°W
Trip23	158	512125	Jun 15, 2024-Dec 31, 2024	12°~19°S, 117°~135°W

The observed set stations for the twenty-three trips are shown in **Figure 1**. These trips targeted albacore tuna, mainly using circle hooks.

**Fig. 1 Set stations of Chinese longline observer trips in 2024**



## 2. Observer coverage

Based on current observer data, China's observer coverage in EPO for 2024 was 10.78%. We suggested that the observer annual report be submitted by the same deadline with fishery data.

## 3. Total catch and catch composition

For each trip, the on-board observer recorded effort (hooks), catch by species, and size composition by species for all the target and bycatch species including sharks, sea turtles and birds. Gender and other biological information (e.g., maturity) were also examined for randomly sampled individuals. The proportion of baskets observed for each set was about 80-90%, due to long hauling time.

The observed catches in number for each trip, including target and bycatch species, are listed in **Tables 2-24**.

One Leatherback turtle and three Olive Ridley turtles were captured in the observation period, and safely released. Two False killer whales were captured in Trip 15 and Trip 21, and safely released. Most of the sharks were discarded by China longliners in the EPO, especially for the Oceanic whitetip sharks, Shortfin makos and Silky sharks, which were released or discarded as soon as possible when incidentally caught.

**Table 2 Observed catch and composition during observer trip 1**

Scientific name	English name	Observed catch in number	Percentage
<i>Acanthocybium solandri</i>	Wahoo	9	1.37%
<i>Alepisaurus ferox</i>	Longnose lancetfish	45	6.87%
<i>Alopias superciliosus</i>	Bigeye thresher	1	0.15%
<i>Dasyatis violacea</i>	Pelagic stingray	27	4.12%
<i>Gempylus serpens</i>	Snake mackerel	1	0.15%
<i>Isurus oxyrinchus</i>	Shortfin mako	1	0.15%
<i>Katsuwonus pelamis</i>	Skipjack tuna	27	4.12%
<i>Lampris guttatus</i>	Opah	5	0.76%
<i>Lepidocybium flavobrunneum</i>	Escolar	6	0.92%
<i>Makaira nigricans</i>	Blue marlin	1	0.15%
<i>Prionace glauca</i>	Blue shark	7	1.07%
<i>Taractes rubescens</i>	Dagger pomfret	1	0.15%
<i>Tetrapturus angustirostris</i>	Shortbill Spearfish	13	1.98%
<i>Tetrapturus audax</i>	Striped Marlin	4	0.61%
<i>Thunnus alalunga</i>	Albacore tuna*	471	71.91%
<i>Thunnus albacares</i>	Yellowfin tuna	2	0.31%
<i>Thunnus obesus</i>	Bigeye tuna	18	2.75%
<i>Xiphias gladius</i>	Swordfish	2	0.31%
-	Unidentified sharks	14	2.14%
Total		655	100%

**Table 3 Observed catch and composition during observer trip 2**

Scientific name	English name	Observed catch in number	Percentage
<i>Acanthocybium solandri</i>	Wahoo	160	2.92%
<i>Alepisaurus ferox</i>	Longnose lancetfish	281	5.12%
<i>Alopias superciliosus</i>	Bigeye thresher	2	0.04%
<i>Dasyatis violacea</i>	Pelagic stingray	338	6.16%
<i>Dermochelys coriacea</i>	Leatherback turtle	1	0.02%
<i>Eumegistus illustris</i>	Brilliant pomfret	5	0.09%
<i>Gempylus serpens</i>	Snake mackerel	19	0.35%
<i>Istiophorus platypterus</i>	Indo-Pacific sailfish	1	0.02%
<i>Isurus oxyrinchus</i>	Shortfin mako	4	0.07%
<i>Katsuwonus pelamis</i>	Skipjack tuna	396	7.22%
<i>Lampris guttatus</i>	Opah	15	0.27%

<i>Lepidocybium flavobrunneum</i>	Escolar	105	1.91%
<i>Makaira indica</i>	Black marlin	12	0.22%
<i>Mantabirostris</i>	Giant manta	2	0.04%
<i>Masturus lanceolatus</i>	Sharptail mola	2	0.04%
<i>Prionace glauca</i>	Blue shark	7	0.13%
<i>Promethichthys prometheus</i>	Roundi escolar	2	0.04%
<i>Ranzania laevis</i>	Slender sunfish	5	0.09%
<i>Taractichthys steindachneri</i>	Sickle pomfret	1	0.02%
<i>Tetrapturus angustirostris</i>	Shortbill Spearfish	59	1.08%
<i>Tetrapturus audax</i>	Striped Marlin	5	0.09%
<i>Thunnus alalunga</i>	Albacore tuna*	3331	60.72%
<i>Thunnus albacares</i>	Yellowfin tuna	339	6.18%
<i>Thunnus obesus</i>	Bigeye tuna	368	6.71%
<i>Xiphias gladius</i>	Swordfish	6	0.11%
-	Unidentified sharks	17	0.31%
-	Squids	3	0.05%
Total		5486	100%

**Table 4 Observed catch and composition during observer trip 3**

Scientific name	English name	Observed catch in number	Percentage
<i>Acanthocybium solandri</i>	Wahoo	32	1.50%
<i>Alepisaurus ferox</i>	Longnose lancetfish	12	0.56%
<i>Alopias superciliosus</i>	Bigeye thresher	2	0.09%
<i>Assurger anzac</i>	Razorback scabbardfish	3	0.14%
<i>Carcharhinus longimanus</i>	Oceanic whitetip shark	2	0.09%
<i>Coryphaena hippurus</i>	Dolphinfish	1	0.05%
<i>Cubiceps gracilis</i>	Driftfish	1	0.05%
<i>Dasyatis violacea</i>	Pelagic stingray	26	1.22%
<i>Gasterochisma melampus</i>	Butterfly kingfish	1	0.05%
<i>Gempylus serpens</i>	Snake mackerel	1	0.05%
<i>Isurus oxyrinchus</i>	Shortfin mako	4	0.19%
<i>Isurus paucus</i>	Longfin mako	2	0.09%
<i>Katsuwonus pelamis</i>	Skipjack tuna	253	11.83%
<i>Lampris guttatus</i>	Opah	4	0.19%

<i>Lepidocybium flavobrunneum</i>	Escolar	26	1.22%
<i>Lophotus capellei</i>	Unicornfish	2	0.09%
<i>Makaira nigricans</i>	Blue marlin	9	0.42%
<i>Prionace glauca</i>	Blue shark	56	2.62%
<i>Pseudocarcharias kamoharai</i>	Crocodile shark	2	0.09%
<i>Ranzania laevis</i>	Slender sunfish	3	0.14%
<i>Scymnodon squamulosus</i>	Velvet dogfish	2	0.09%
<i>Carcharhinus falciformis</i>	Silky shark	1	0.05%
<i>Sphyrna zygaena</i>	Smooth hammerhead	1	0.05%
<i>Taractes rubescens</i>	Dagger pomfret	1	0.05%
<i>Taractichthys steindachneri</i>	Sickle pomfret	4	0.19%
<i>Tetrapturus angustirostris</i>	Shortbill spearfish	22	1.03%
<i>Tetrapturus audax</i>	Striped marlin	6	0.28%
<i>Thunnus alalunga</i>	Albacore tuna*	1309	61.20%
<i>Thunnus albacares</i>	Yellowfin tuna	199	9.30%
<i>Thunnus obesus</i>	Bigeye tuna	147	6.87%
<i>Xiphias gladius</i>	Swordfish	5	0.23%
Total		2139	100.00%

**Table 5 Observed catch and composition during observer trip 4**

Scientific name	English name	Observed catch in number	Percentage
<i>Acanthocybium solandri</i>	Wahoo	59	0.49%
<i>Alepisaurus brevirostris</i>	Short snouted lancetfish	1	0.01%
<i>Alepisaurus ferox</i>	Longnose lancetfish	25	0.21%
<i>Allothunnus fallai</i>	Slender tuna	7	0.06%
<i>Assurger anzac</i>	Razorback scabbardfish	2	0.02%
<i>Brama brama</i>	Atlantic pomfret	13	0.11%
<i>Coryphaena hippurus</i>	Dolphinfish	41	0.34%
<i>Dasyatis violacea</i>	Pelagic stingray	6	0.05%
<i>Gasterochisma melampus</i>	Butterfly kingfish	73	0.61%
<i>Gempylus serpens</i>	Snake mackerel	2	0.02%
<i>Isistius brasiliensis</i>	Cookie cutter shark	1	0.01%
<i>Isurus oxyrinchus</i>	Shortfin mako	1	0.01%

<i>Katsuwonus pelamis</i>	Skipjack tuna	177	1.47%
<i>Lampris guttatus</i>	Opah	268	2.23%
<i>Lepidocybium flavobrunneum</i>	Escolar	188	1.56%
<i>Lophotus capellei</i>	Unicornfish	1	0.01%
<i>Makaira indica</i>	Black marlin	9	0.07%
<i>Mola mola</i>	Ocean sunfish	2	0.02%
<i>Pteraclis aesticola</i>	Pacific fanfish	1	0.01%
<i>Ruvettus pretiosus</i>	Oilfish	1	0.01%
<i>Seriola lalandi</i>	Yellowtail amberjack	6	0.05%
<i>Tetrapturus angustirostris</i>	Shortbill spearfish	65	0.54%
<i>Tetrapturus audax</i>	Striped marlin	71	0.59%
<i>Thunnus alalunga</i>	Albacore tuna*	10804	89.84%
<i>Thunnus albacares</i>	Yellowfin tuna	125	1.04%
<i>Thunnus obesus</i>	Bigeye tuna	31	0.26%
<i>Xiphias gladius</i>	Swordfish	7	0.06%
-	Unidentified sharks	39	0.32%
Total		12026	100.00%

**Table 6 Observed catch and composition during observer trip 5**

Scientific name	English name	Observed catch in number	Percentage
<i>Acanthocybium solandri</i>	Wahoo	257	1.16%
<i>Alepisaurus ferox</i>	Longnose lancetfish	1060	4.77%
<i>Allothunnus fallai</i>	Slender tuna	35	0.16%
<i>Alopias superciliosus</i>	Bigeye thresher	2	0.01%
<i>Assurger anzac</i>	Razorback scabbardfish	3	0.01%
<i>Brama brama</i>	Atlantic pomfret	5	0.02%
<i>Carcharhinus longimanus</i>	Oceanic whitetip shark	5	0.02%
<i>Common remora</i>	Common remora	14	0.06%
<i>Coryphaena hippurus</i>	Dolphinfish	37	0.17%
<i>Cubiceps gracilis</i>	Driftfish	2	0.01%
<i>Dasyatis violacea</i>	Pelagic stingray	401	1.81%
<i>Decapterus lajang</i>	Slender mackerel scad	3	0.01%
<i>Gasterochisma melampus</i>	Butterfly kingfish	110	0.50%
<i>Gempylus serpens</i>	Snake mackerel	30	0.14%
<i>Isurus oxyrinchus</i>	Shortfin mako	31	0.14%



<i>Isurus paucus</i>	Longfin mako	2	0.01%
<i>Katsuwonus pelamis</i>	Skipjack tuna	734	3.31%
<i>Lampris guttatus</i>	Opah	301	1.36%
<i>Lepidocybium flavobrunneum</i>	Escolar	262	1.18%
<i>Lophotus capellei</i>	Unicornfish	4	0.02%
<i>Makaira indica</i>	Black marlin	2	0.01%
<i>Makaira nigricans</i>	Blue marlin	13	0.06%
<i>Masturus lanceolatus</i>	Sharptail mola	3	0.01%
<i>Mola mola</i>	Ocean sunfish	5	0.02%
<i>Prionace glauca</i>	Blue shark	84	0.38%
<i>Promethichthys prometheus</i>	Roudi escolar	1	0.00%
<i>Pseudocarcharias kamoharai</i>	Crocodile shark	14	0.06%
<i>Ranzania laevis</i>	Slender sunfish	1	0.00%
<i>Remora osteochir</i>	Marlin sucker	39	0.18%
<i>Ruvettus pretiosus</i>	Oilfish	8	0.04%
<i>Scombrolabrax heterolepis</i>	Longfin escolar	11	0.05%
<i>Scymnodon squamulosus</i>	Velvet dogfish	2	0.01%
<i>Seriola lalandi</i>	Yellowtail amberjack	1	0.00%
<i>Sphyrna zygaena</i>	Smooth hammerhead	1	0.00%
<i>Taractes rubescens</i>	Dagger pomfret	1	0.00%
<i>Taractichthys steindachneri</i>	Sickle pomfret	9	0.04%
<i>Tetrapturus angustirostris</i>	Shortbill spearfish	196	0.88%
<i>Tetrapturus audax</i>	Striped marlin	135	0.61%
<i>Thunnus alalunga</i>	Albacore tuna*	17412	78.43%
<i>Thunnus albacares</i>	Yellowfin tuna	386	1.74%
<i>Thunnus obesus</i>	Bigeye tuna	287	1.29%
<i>Trachipterus fukuzakii</i>	Tapertail ribbonfish	1	0.00%
<i>Xiphias gladius</i>	Swordfish	32	0.14%
-	Unidentified sharks	256	1.15%
-	Squids	2	0.01%
Total		22200	100.00%

**Table 7 Observed catch and composition during observer trip 6**

Scientific name	English name	Observed catch in	Percentage
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		number	
<i>Acanthocybium solandri</i>	Wahoo	119	2.33%
<i>Coryphaena hippurus</i>	Dolphinfish	7	0.14%
<i>Dasyatis violacea</i>	Pelagic stingray	110	2.15%
<i>Katsuwonus pelamis</i>	Skipjack tuna	156	3.05%
<i>Lampris guttatus</i>	Opah	131	2.56%
<i>Lepidocybium flavobrunneum</i>	Escolar	155	3.03%
<i>Makaira nigricans</i>	Blue marlin	21	0.41%
<i>Taractichthys steindachneri</i>	Sickle pomfret	2	0.04%
<i>Tetrapturus angustirostris</i>	Shortbill spearfish	32	0.63%
<i>Tetrapturus audax</i>	Striped marlin	78	1.52%
<i>Thunnus alalunga</i>	Albacore tuna*	3890	76.02%
<i>Thunnus albacares</i>	Yellowfin tuna	108	2.11%
<i>Thunnus obesus</i>	Bigeye tuna	115	2.25%
<i>Xiphias gladius</i>	Swordfish	17	0.33%
-	Unidentified sharks	176	3.44%
Total		5117	100.00%

**Table 8 Observed catch and composition during observer trip 7**

Scientific name	English name	Observed catch in number	Percentage
<i>Acanthocybium solandri</i>	Wahoo	309	1.52%
<i>Alepisaurus ferox</i>	Longnose lancetfish	35	0.17%
<i>Alopias superciliosus</i>	Bigeye thresher	7	0.03%
<i>Carcharhinus falciformis</i>	Silky shark	5	0.02%
<i>Carcharhinus longimanus</i>	Oceanic whitetip shark	2	0.01%
<i>Coryphaena hippurus</i>	Dolphinfish	24	0.12%
<i>Dasyatis violacea</i>	Pelagic stingray	31	0.15%
<i>Gasterochisma melampus</i>	Butterfly kingfish	119	0.59%
<i>Istiophorus platypterus</i>	Indo-Pacific sailfish	16	0.08%
<i>Katsuwonus pelamis</i>	Skipjack	815	4.02%
<i>Lampris guttatus</i>	Opah	428	2.11%
<i>Lepidocybium flavobrunneum</i>	Escolar	260	1.28%
<i>Makaira indica</i>	Black marlin	4	0.02%
<i>Makaira nigricans</i>	Blue marlin	14	0.07%
<i>Prionace glauca</i>	Blue shark	368	1.82%
<i>Pseudocarcharias kamoharai</i>	Crocodile shark	17	0.08%
<i>Ruvettus pretiosus</i>	Oilfish	5	0.02%

<i>Scymnodon squamulosus</i>	Velvet dogfish	10	0.05%
<i>Taractes rubescens</i>	Dagger pomfret	17	0.08%
<i>Taractichthys steindachneri</i>	Sickle pomfret	8	0.04%
<i>Tetrapturus angustirostris</i>	Shortbill spearfish	224	1.11%
<i>Tetrapturus audax</i>	Striped marlin	157	0.77%
<i>Thunnus alalunga</i>	Albacore tuna*	16735	82.56%
<i>Thunnus albacares</i>	Yellowfin tuna	205	1.01%
<i>Thunnus obesus</i>	Bigeye tuna	261	1.29%
<i>Xiphias gladius</i>	Swordfish	26	0.13%
-	Unidentified sharks	168	0.83%
Total		20270	100.00%

**Table 9 Observed catch and composition during observer trip 8**

Scientific name	English name	Observed catch in number	Percentage
<i>Acanthocybium solandri</i>	Wahoo	12	1.60%
<i>Alepisaurus ferox</i>	Longnose lancetfish	29	3.88%
<i>Carcharhinus longimanus</i>	Oceanic whitetip shark	1	0.13%
<i>Gempylus serpens</i>	Snake mackerel	8	1.07%
<i>Istiophorus platypterus</i>	Indo-Pacific sailfish	1	0.13%
<i>Katsuwonus pelamis</i>	Skipjack tuna	80	10.70%
<i>Lepidocybium flavobrunneum</i>	Escolar	19	2.54%
<i>Makaira nigricans</i>	Blue marlin	10	1.34%
<i>Prionace glauca</i>	Blue shark	27	3.61%
<i>Pseudocarcharias kamoharai</i>	Crocodile shark	4	0.53%
<i>Pteroplatytrygon violacea</i>	Pelagic stingray	37	4.95%
<i>Ruvettus pretiosus</i>	Oilfish	1	0.13%
<i>Thunnus alalunga</i>	Albacore tuna*	235	31.42%
<i>Thunnus albacares</i>	Yellowfin tuna	181	24.20%
<i>Thunnus obesus</i>	Bigeye tuna	99	13.24%
<i>Xiphias gladius</i>	Swordfish	4	0.53%
Total		748	100.00%

**Table 10 Observed catch and composition during observer trip 9**

Scientific name	English name	Observed catch in number	Percentage
<i>Acanthocybium solandri</i>	Wahoo	175	1.80%
<i>Alepisaurus ferox</i>	Longnose lancetfish	129	1.33%
<i>Carcharhinus longimanus</i>	Oceanic whitetip shark	2	0.02%
<i>Coryphaena hippurus</i>	Dolphinfish	8	0.08%
<i>Dasyatis violacea</i>	Pelagic stingray	4	0.04%
<i>Gempylus serpens</i>	Snake mackerel	1	0.01%
<i>Katsuwonus pelamis</i>	Skipjack tuna	270	2.78%
<i>Lampris guttatus</i>	Opah	27	0.28%
<i>Lepidocybium flavobrunneum</i>	Escolar	116	1.19%
<i>Lophotus capellei</i>	Unicornfish	2	0.02%
<i>Makaira nigricans</i>	Blue marlin	16	0.16%
<i>Prionace glauca</i>	Blue shark	89	0.92%
<i>Taractichthys steindachneri</i>	Sickle pomfret	2	0.02%
<i>Tetrapturus angustirostris</i>	Shortbill spearfish	61	0.63%
<i>Tetrapturus audax</i>	Striped marlin	33	0.34%
<i>Thunnus alalunga</i>	Albacore tuna*	8549	88.04%
<i>Thunnus albacares</i>	Yellowfin tuna	69	0.71%
<i>Thunnus obesus</i>	Bigeye tuna	139	1.43%
<i>Xiphias gladius</i>	Swordfish	18	0.19%
<b>Total</b>		<b>9710</b>	<b>100.00%</b>

**Table 11 Observed catch and composition during observer trip 10**

Scientific name	English name	Observed catch in number	Percentage
<i>Acanthocybium solandri</i>	Wahoo	128	1.99%
<i>Coryphaena hippurus</i>	Dolphinfish	1	0.02%
<i>Katsuwonus pelamis</i>	Skipjack tuna	271	4.21%
<i>Lampris guttatus</i>	Opah	40	0.62%
<i>Lepidocybium flavobrunneum</i>	Escolar	52	0.81%
<i>Prionace glauca</i>	Blue shark	18	0.28%
<i>Makaira nigricans</i>	Blue marlin	58	0.90%
<i>Thunnus alalunga</i>	Albacore tuna*	5593	86.79%
<i>Thunnus albacares</i>	Yellowfin tuna	78	1.21%

<i>Thunnuc obesus</i>	Bigeye tuna	107	1.66%
<i>Tetrapturus angustirostris</i>	Shortbill Spearfish	48	0.74%
<i>Xiphias gladius</i>	Swordfish	15	0.23%
-	Unidentified sharks	35	0.54%
Total		6444	100.00%

**Table 12 Observed catch and composition during observer trip 11**

Scientific name	English name	Observed catch in number	Percentage
<i>Acanthocybium solandri</i>	Wahoo	164	3.05%
<i>Alepisaurus ferox</i>	Longnose lancetfish	171	3.18%
<i>Brama brama</i>	Atlantic pomfret	3	0.06%
<i>Pteraclis aesticola</i>	Pacific fanfish	1	0.02%
<i>Carcharhinus longimanus</i>	Oceanic whitetip shark	1	0.02%
<i>Coryphaena hippurus</i>	Dolphinfish	64	1.19%
<i>Dasyatis violacea</i>	Pelagic stingray	27	0.50%
<i>Gempylus serpens</i>	Snake mackerel	9	0.17%
<i>Katsuwonus pelamis</i>	Skipjack tuna	550	10.22%
<i>Lampris guttatus</i>	Opah	195	3.63%
<i>Lepidocybium flavobrunneum</i>	Escolar	195	3.63%
<i>Lophotus capellei</i>	Unicornfish	3	0.06%
<i>Makaira nigricans</i>	Blue marlin	19	0.35%
<i>Prionace glauca</i>	Blue shark	183	3.40%
<i>Ruvettus pretiosus</i>	Oilfish	2	0.04%
<i>Tetrapturus angustirostris</i>	Shortbill spearfish	148	2.75%
<i>Tetrapturus audax</i>	Striped marlin	146	2.71%
<i>Thunnus alalunga</i>	Albacore tuna*	2997	55.72%
<i>Thunnus albacares</i>	Yellowfin tuna	341	6.34%
<i>Thunnus obesus</i>	Bigeye tuna	143	2.66%
<i>Xiphias gladius</i>	Swordfish	17	0.32%
Total		5379	100.00%

**Table 13 Observed catch and composition during observer trip 12**

Scientific name	English name	Observed catch in	Percentage
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		number	
<i>Acanthocybium solandri</i>	Wahoo	39	1.76%
<i>Alepisaurus ferox</i>	Longnose lancetfish	50	2.25%
<i>Carcharhinus falciformis</i>	Silky shark	3	0.14%
<i>Coryphaena hippurus</i>	Dolphinfish	3	0.14%
<i>Dasyatis violacea</i>	Pelagic stingray	22	0.99%
<i>Gempylus serpens</i>	Snake mackerel	1	0.05%
<i>Katsuwonus pelamis</i>	Skipjack	87	3.92%
<i>Lampris guttatus</i>	Opah	52	2.34%
<i>Lepidocybium flavobrunneum</i>	Escolar	20	0.90%
<i>Makaira nigricans</i>	Blue marlin	22	0.99%
<i>Prionace glauca</i>	Blue shark	36	1.62%
<i>Taractichthys steindachneri</i>	Sickle pomfret	6	0.27%
<i>Thunnus alalunga</i>	Albacore tuna*	12	0.54%
<i>Thunnus albacares</i>	Yellowfin tuna	1797	81.02%
<i>Thunnus obesus</i>	Bigeye tuna	23	1.04%
<i>Tetrapturus angustirostris</i>	Shortbill Spearfish	41	1.85%
<i>Xiphias gladius</i>	Swordfish	4	0.18%
Total		2218	100%

**Table 14 Observed catch and composition during observer trip 13**

Scientific name	English name	Observed catch in number	Percentage
<i>Acanthocybium solandri</i>	Wahoo	164	1.15%
<i>Alepisaurus ferox</i>	Longnose lancetfish	247	1.73%
<i>Allothunnus fallai</i> Serventy	Slender tuna	67	0.47%
<i>Alopias superciliosus</i>	Bigeye thresher	3	0.02%
<i>Carcharhinus longimanus</i>	Oceanic whitetip shark	2	0.01%
<i>Coryphaena hippurus</i>	Dolphinfish	2	0.01%
<i>Dasyatis violacea</i>	Pelagic stingray	293	2.05%
<i>Desmodema polystictum</i>	Polka-dot ribbonfish	1	0.01%
<i>Gasterochisma melampus</i>	Butterfly kingfish	142	0.99%
<i>Gempylus serpens</i>	Snake mackerel	12	0.08%
<i>Isurus oxyrinchus</i>	Shortfin mako	2	0.01%
<i>Isurus paucus</i>	Longfin mako	1	0.01%
<i>Katsuwonus pelamis</i>	Skipjack tuna	1612	11.29%
<i>Lampris guttatus</i>	Opah	15	0.11%
<i>Lepidocybium flavobrunneum</i>	Escolar	206	1.44%

<i>Makaira indica</i>	Black marlin	1	0.01%
<i>Makaira nigricans</i>	Blue marlin	87	0.61%
<i>Mobula japonica</i>	Spinetail mobula	1	0.01%
<i>Prionace glauca</i>	Blue shark	41	0.29%
<i>Pseudocarcharias kamoharai</i>	Crocodile shark	3	0.02%
<i>Ranzania laevis</i>	Slender sunfish	3	0.02%
<i>Ruvettus pretiosus</i>	Oilfish	5	0.04%
<i>Istiophorus platypterus</i>	Indo-Pacific sailfish	1	0.01%
<i>Taractes rubescens</i>	Dagger pomfret	21	0.15%
<i>Tetrapturus angustirostris</i>	Shortbill Spearfish	83	0.58%
<i>Tetrapturus audax</i>	Striped Marlin	13	0.09%
<i>Thunnus alalunga</i>	Albacore tuna*	8610	60.28%
<i>Thunnus albacares</i>	Yellowfin tuna	1697	11.88%
<i>Thunnus obesus</i>	Bigeye tuna	792	5.55%
<i>Trachipterus fukuzakii</i>	Tapertail ribbonfish	2	0.01%
<i>Xiphias gladius</i>	Swordfish	18	0.13%
-	Unidentified sharks	136	0.95%
Total		14283	100.00%

**Table 15 Observed catch and composition during observer trip 14**

Scientific name	English name	Observed catch in number	Percentage
<i>Acanthocybium solandri</i>	Wahoo	138	0.59%
<i>Alepisaurus ferox</i>	Longnose lancetfish	243	1.04%
<i>Allothunnus fallai</i>	Slender tuna	2	0.01%
<i>Coryphaena hippurus</i>	Dolphinfish	25	0.11%
<i>Dasyatis violacea</i>	Pelagic stingray	68	0.29%
<i>Eumegistus illustris</i>	Brilliant pomfret	3	0.01%
<i>Gempylus serpens</i>	Snake mackerel	1	0.00%
<i>Katsuwonus pelamis</i>	Skipjack tuna	606	2.60%
<i>Lampris guttatus</i>	Opah	267	1.14%
<i>Lepidocybium flavobrunneum</i>	Escolar	197	0.84%
<i>Makaira nigricans</i>	Blue marlin	6	0.03%
<i>Prionace glauca</i>	Blue shark	301	1.29%
<i>Tetrapturus angustirostris</i>	Shortbill spearfish	112	0.48%
<i>Tetrapturus audax</i>	Striped marlin	111	0.48%
<i>Thunnus alalunga</i>	Albacore tuna*	20795	89.15%
<i>Thunnus albacares</i>	Yellowfin tuna	207	0.89%

<i>Thunnus obesus</i>	Bigeye tuna	227	0.97%
<i>Xiphias gladius</i>	Swordfish	17	0.07%
Total		23326	100.00%

**Table 16 Observed catch and composition during observer trip 15**

Scientific name	English name	Observed catch in number	Percentage
<i>Acanthocybium solandri</i>	Wahoo	324	1.26%
<i>Alepisaurus ferox</i>	Longnose lancetfish	1405	5.46%
<i>Alopias superciliosus</i>	Bigeye thresher	2	0.01%
<i>Carcharhinus longimanus</i>	Oceanic whitetip shark	29	0.11%
<i>Coryphaena hippurus</i>	Dolphinfish	11	0.04%
<i>Dasyatis violacea</i>	Pelagic stingray	809	3.14%
<i>Gasterrochismamelampus</i>	Butterfly Kingfish	80	0.31%
<i>Gempylus serpens</i>	Snake mackerel	3	0.01%
<i>Kajikia audax</i>	Striped Marlin	60	0.23%
<i>Katsuwonus pelamis</i>	Skipjack tuna	1337	5.19%
<i>Lampris guttatus</i>	Opah	107	0.42%
<i>Lepidochelys olivacea</i>	Olive Ridley turtle	1	0.00%
<i>Lepidocybium flavobrunneum</i>	Escolar	321	1.25%
<i>Makaira mazara</i>	Blue marlin	60	0.23%
<i>Prionace glauca</i>	Blue shark	449	1.74%
<i>Pseudorca crassidens</i>	False Killer Whale	1	0.00%
<i>Ruvettus pretiosus</i>	Oilfish	2	0.01%
<i>Sphyrna barracuda</i>	Great barracuda	1	0.00%
<i>Taractes rubescens</i>	Dagger pomfret	3	0.01%
<i>Taractichthys steindachneri</i>	Sickle pomfret	3	0.01%
<i>Tetrapturus angustirostris</i>	Shortbill Spearfish	286	1.11%
<i>Thunnus alalunga</i>	Albacore tuna*	18597	72.26%
<i>Thunnus albacares</i>	Yellowfin tuna	761	2.96%
<i>Thunnus obesus</i>	Bigeye tuna	1030	4.00%
<i>Xiphias gladius</i>	Swordfish	55	0.21%
-	Unidentified fishes	1	0.00%
Total		25738	100.00%

**Table 17 Observed catch and composition during observer trip 16**

Scientific name	English name	Observed	Percentage
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		catch in number	
<i>Acanthocybium solandri</i>	Wahoo	204	2.30%
<i>Alepisaurus ferox</i>	Longnose lancetfish	802	9.05%
<i>Alopias superciliosus</i>	Bigeye thresher	2	0.02%
<i>Assurger anzac</i>	Razorback scabbardfish	1	0.01%
<i>Carcharhinus albimarginatus</i>	Silvertip shark	5	0.06%
<i>Carcharhinus longimanus</i>	Oceanic whitetip shark	1	0.01%
<i>Carcharodon carcharias</i>	Great white shark	3	0.03%
<i>Coryphaena hippurus</i>	Dolphinfish	2	0.02%
<i>Dasyatis violacea</i>	Pelagic stingray	154	1.74%
<i>Gempylus serpens</i>	Snake mackerel	1	0.01%
<i>Isurus oxyrinchus</i>	Shortfin mako	3	0.03%
<i>Katsuwonus pelamis</i>	Skipjack tuna	774	8.71%
<i>Lampris guttatus</i>	Opah	17	0.02%
<i>Lepidocybium flavobrunneum</i>	Escolar	95	0.19%
<i>Makaira indica</i>	Black marlin	1	1.07%
<i>Makaira nigricans</i>	Blue marlin	91	0.01%
<i>Prionace glauca</i>	Blue shark	129	1.03%
<i>Taractichthys steindachneri</i>	Sickle pomfret	4	1.46%
<i>Tetrapturus angustirostris</i>	Shortbill spearfish	136	0.05%
<i>Tetrapturus audax</i>	Striped marlin	11	1.53%
<i>Thunnus alalunga</i>	Albacore tuna*	6012	0.12%
<i>Thunnus albacares</i>	Yellowfin tuna	188	67.85%
<i>Thunnus obesus</i>	Bigeye tuna	192	2.12%
<i>Xiphias gladius</i>	Swordfish	19	2.17%
-	Unidentified sharks	14	0.16%
Total		8861	100.00%

**Table 18 Observed catch and composition during observer trip 17**

Scientific name	English name	Observed catch in number	Percentage
<i>Acanthocybium solandri</i>	Wahoo	103	1.09%
<i>Alepisaurus ferox</i>	Longnose lancetfish	698	7.42%
<i>Allothunnus fallai</i>	Slender tuna	16	0.17%
<i>Carcharhinus albimarginatus</i>	Silvertip shark	7	0.07%

<i>Coryphaena hippurus</i>	Dolphinfish	31	0.33%
<i>Dasyatis violacea</i>	Pelagic stingray	116	1.23%
<i>Katsuwonus pelamis</i>	Skipjack tuna	223	2.37%
<i>Lampris guttatus</i>	Opah	332	3.53%
<i>Lepidocybium flavobrunneum</i>	Escolar	140	1.49%
<i>Makaira nigricans</i>	Blue marlin	21	0.22%
<i>Mola mola</i>	Sunfish	2	0.02%
<i>Prionace glauca</i>	Blue shark	125	1.33%
<i>Sphyraena barracuda</i>	Great barracuda	1	0.01%
<i>Taractichthys steindachneri</i>	Sickle pomfret	6	0.06%
<i>Tetrapturus angustirostris</i>	Shortbill spearfish	103	1.09%
<i>Tetrapturus audax</i>	Striped marlin	120	1.28%
<i>Thunnus alalunga</i>	Albacore tuna*	7029	74.69%
<i>Thunnus albacares</i>	Yellowfin tuna	133	1.41%
<i>Thunnus obesus</i>	Bigeye tuna	192	2.04%
<i>Xiphias gladius</i>	Swordfish	13	0.14%
Total		9411	100.00%

**Table 19 Observed catch and composition during observer trip 18**

Scientific name	English name	Observed catch in number	Percentage
<i>Acanthocybium solandri</i>	Wahoo	247	1.27%
<i>Alepisaurus ferox</i>	Longnose lancetfish	194	1.00%
<i>Alopias superciliosus</i>	Bigeye thresher	1	0.01%
<i>Brama brama</i>	Atlantic pomfret	1	0.01%
<i>Coryphaena hippurus</i>	Dolphinfish	2	0.01%
<i>Cubiceps gracilis</i>	Driftfish	1	0.01%
<i>Dasyatis violacea</i>	Pelagic stingray	338	1.73%
<i>Desmodema polystictum</i>	Polka-dot ribbonfish	2	0.01%
<i>Gasterochisma melampus</i>	Butterfly kingfish	64	0.33%
<i>Gempylus serpens</i>	Snake mackerel	7	0.04%
<i>Isurus oxyrinchus</i>	Shortfin mako	1	0.01%
<i>Katsuwonus pelamis</i>	Skipjack tuna	631	3.24%
<i>Lampris guttatus</i>	Opah	325	1.67%
<i>Lepidochelys olivacea</i>	Olive Ridley turtle	1	0.01%
<i>Lepidocybium</i>	Escolar	355	1.82%

<i>flavobrunneum</i>			
<i>Lophotus capellei</i>	Unicornfish	1	0.01%
<i>Makaira nigricans</i>	Blue marlin	16	0.08%
<i>Mola mola</i>	Ocean sunfish	1	0.01%
<i>Prionace glauca</i>	Blue shark	602	3.09%
<i>Pseudocarcharias kamoharai</i>	Crocodile shark	6	0.03%
<i>Taractes rubescens</i>	Dagger pomfret	5	0.03%
<i>Taractichthys steindachneri</i>	Sickle pomfret	2	0.01%
<i>Tetrapturus angustirostris</i>	Shortbill spearfish	278	1.43%
<i>Tetrapturus audax</i>	Striped marlin	34	0.17%
<i>Thunnus alalunga</i>	Albacore tuna*	16067	82.42%
<i>Thunnus albacares</i>	Yellowfin tuna	50	0.26%
<i>Thunnus obesus</i>	Bigeye tuna	215	1.10%
<i>Xiphias gladius</i>	Swordfish	37	0.19%
<i>Scymnodon squamulosus</i>	Velvet dogfish	4	0.02%
-	Unidentified sharks	6	0.03%
Total		19494	100.00%

**Table 20 Observed catch and composition during observer trip 19**

Scientific name	English name	Observed catch in number	Percentage
<i>Acanthocybium solandri</i>	Wahoo	223	2.15%
<i>Alepisaurus ferox</i>	Longnose lancetfish	291	2.80%
<i>Alopias superciliosus</i>	Bigeye thresher	1	0.01%
<i>Assurger anzac</i>	Razorback scabbardfish	1	0.01%
<i>Carcharhinus longimanus</i>	Oceanic whitetip shark	5	0.05%
<i>Coryphaena hippurus</i>	Dolphinfish	19	0.18%
<i>Cubiceps gracilis</i>	Driftfish	1	0.01%
<i>Dasyatis violacea</i>	Pelagic stingray	180	1.73%
<i>Gempylus serpens</i>	Snake mackerel	8	0.08%
<i>Isurus oxyrinchus</i>	Shortfin mako	1	0.01%
<i>Isurus paucus</i>	Longfin mako	4	0.04%
<i>Katsuwonus pelamis</i>	Skipjack tuna	606	5.84%
<i>Lampris guttatus</i>	Opah Moonfish	393	3.78%
<i>Lepidocybium</i>	Escolar	573	5.52%

<i>flavobrunneum</i>			
<i>Lophotus capellei</i>	Unicornfish	1	0.01%
<i>Makaira nigricans</i>	Blue marlin	21	0.20%
<i>Prionace glauca</i>	Blue shark	19	0.18%
<i>Pseudocarcharias kamoharai</i>	Crocodile shark	33	0.32%
<i>Ranzania laevis</i>	Slender sunfish	7	0.07%
<i>Ruvettus pretiosus</i>	Oilfish	8	0.08%
<i>Scymnodon squamulosus</i>	Velvet dogfish	1	0.01%
<i>Taractes rubescens</i>	Dagger pomfret	25	0.24%
<i>Taractichthys steindachneri</i>	sickle pomfret	10	0.10%
<i>Tetrapturus angustirostris</i>	Shortbill spearfish	163	1.57%
<i>Tetrapturus audax</i>	Striped marlin	98	0.94%
<i>Thunnus alalunga</i>	Albacore tuna*	7039	67.79%
<i>Thunnus albacares</i>	Yellowfin tuna	280	2.70%
<i>Thunnus obesus</i>	Bigeye tuna	331	3.19%
<i>Xiphias gladius</i>	Swordfish	42	0.40%
Total		10384	100.00%

**Table 21 Observed catch and composition during observer trip 20**

Scientific name	English name	Observed catch in number	Percentage
<i>Acanthocybium solandri</i>	Wahoo	104	3.06%
<i>Alepisaurus ferox</i>	Longnose lancetfish	33	0.97%
<i>Brama brama</i>	Atlantic pomfret	1	0.03%
<i>Coryphaena hippurus</i>	Dolphinfish	2	0.06%
<i>Dasyatis violacea</i>	Pelagic stingray	42	1.24%
<i>Gempylus serpens</i>	Snake mackerel	3	0.09%
<i>Isurus oxyrinchus</i>	Shortfin mako	1	0.03%
<i>Isurus paucus</i>	Longfin mako	1	0.03%
<i>Katsuwonus pelamis</i>	Skipjack tuna	492	14.47%
<i>Lampris guttatus</i>	Opah	2	0.06%
<i>Lepidocybium flavobrunneum</i>	Escolar	62	1.82%
<i>Lophotus capellei</i>	Unicornfish	1	0.03%
<i>Makaira nigricans</i>	Blue marlin	29	0.85%

<i>Prionace glauca</i>	Blue shark	32	0.94%
<i>Ranzania laevis</i>	Slender sunfish	2	0.06%
<i>Taractichthys steindachneri</i>	Sickle pomfret	1	0.03%
<i>Tetrapturus angustirostris</i>	Shortbill spearfish	33	0.97%
<i>Tetrapturus audax</i>	Striped marlin	5	0.15%
<i>Thunnus alalunga</i>	Albacore tuna*	2036	59.88%
<i>Thunnus albacares</i>	Yellowfin tuna	334	9.82%
<i>Thunnus obesus</i>	Bigeye tuna	180	5.29%
<i>Voilier de l'IndoPacifique</i>	Indo-Pacific sailfish	3	0.09%
<i>Xiphias gladius</i>	Swordfish	1	0.03%
Total		3400	100.00%

**Table 22 Observed catch and composition during observer trip 21**

Scientific name	English name	Observed catch in number	Percentage
<i>Acanthocybium solandri</i>	Wahoo	210	3.47%
<i>Alepisaurus ferox</i>	Longnose lancetfish	50	0.83%
<i>Carcharhinus longimanus</i>	Oceanic whitetip shark	1	0.02%
<i>Coryphaena hippurus</i>	Dolphinfish	5	0.08%
<i>Dasyatis violacea</i>	Pelagic stingray	62	1.02%
<i>Katsuwonus pelamis</i>	Skipjack tuna	432	7.13%
<i>Lampris guttatus</i>	Opah	42	0.69%
<i>Lepidocybium flavobrunneum</i>	Escolar	61	1.01%
<i>Makaira nigricans</i>	Blue marlin	10	0.17%
<i>Prionace glauca</i>	Blue shark	71	1.17%
<i>Pseudorca crassidens</i>	False killer whale	1	0.02%
<i>Taractichthys steindachneri</i>	Sickle pomfret	18	0.30%
<i>Tetrapturus angustirostris</i>	Shortbill spearfish	129	2.13%
<i>Tetrapturus audax</i>	Striped marlin	12	0.20%
<i>Thunnus alalunga</i>	Albacore tuna*	4023	66.40%
<i>Thunnus albacares</i>	Yellowfin tuna	406	6.70%
<i>Thunnus obesus</i>	Bigeye tuna	520	8.58%
<i>Xiphias gladius</i>	Swordfish	6	0.10%
Total		6059	100.00%

**Table 23 Observed catch and composition during observer trip 22**

Scientific name	English name	Observed catch in number	Percentage
<i>Acanthocybium solandri</i>	Wahoo	468	3.06%
<i>Alepisaurus ferox</i>	Longnose lancetfish	597	3.90%
<i>Alopias superciliosus</i>	Bigeye thresher	10	0.07%
<i>Carcharhinus falciformis</i>	Silky shark	12	0.08%
<i>Carcharhinus longimanus</i>	Oceanic whitetip shark	18	0.12%
<i>Coryphaena hippurus</i>	Dolphinfish	30	0.20%
<i>Cubiceps gracilis</i>	Driftfish	1	0.01%
<i>Dasyatis violacea</i>	Pelagic stingray	636	4.16%
<i>Eumegistus illustris</i>	Brilliant pomfret	3	0.02%
<i>Gempylus serpens</i>	Snake mackerel	42	0.27%
<i>Isistius brasiliensis</i>	Cookie cutter shark	1	0.01%
<i>Istiophorus platypterus</i>	Indo-Pacific sailfish	5	0.03%
<i>Isurus oxyrinchus</i>	Shortfin mako	5	0.03%
<i>Katsuwonus pelamis</i>	Skipjack tuna	1632	10.67%
<i>Lagocephalus lagocephalus</i>	Rabbit puffer	2	0.01%
<i>Lampris guttatus</i>	Opah	411	2.69%
<i>Lepidochelys olivacea</i>	Olive Ridley turtle	1	0.01%
<i>Lepidocybium flavobrunneum</i>	Escolar	393	2.57%
<i>Lophotus capellei</i>	Unicornfish	5	0.03%
<i>Makaira indica</i>	Black marlin	1	0.01%
<i>Makaira mazara</i>	Blue marlin	54	0.35%
<i>Mobula japonica</i>	Spinetail mobula	5	0.03%
<i>Mola mola</i>	Ocean sunfish	1	0.01%
<i>Omosudis lowei</i>	Omosudid	1	0.01%
<i>Prionace glauca</i>	Blue shark	240	1.57%
<i>Promethichthys prometheus</i>	Roundi escolar	4	0.03%
<i>Pseudocarcharias kamoharai</i>	Crocodile shark	28	0.18%
<i>Ranzania laevis</i>	Slender sunfish	3	0.02%
<i>Ruvettus pretiosus</i>	Oilfish	3	0.02%
<i>Scymnodon squamulosus</i>	Velvet dogfish	3	0.02%
<i>Sphyrnaena barracuda</i>	Great barracuda	7	0.05%
<i>Taractes rubescens</i>	Dagger pomfret	10	0.07%
<i>Taractichthys</i>	Sickle pomfret	26	0.17%

<i>steindachneri</i>			
<i>Tetrapturus angustirostris</i>	Shortbill spearfish	462	3.02%
<i>Tetrapturus audax</i>	Striped marlin	80	0.52%
<i>Thunnus alalunga</i>	Albacore tuna*	7746	50.63%
<i>Thunnus albacares</i>	Yellowfin tuna	1155	7.55%
<i>Thunnus obesus</i>	Bigeye tuna	1163	7.60%
<i>Trachipterus fukuzakii</i>	Tapertail ribbonfish	3	0.02%
<i>Xiphias gladius</i>	Swordfish	32	0.21%
Total		15299	100.00%

**Table 24 Observed catch and composition during observer trip 23**

Scientific name	English name	Observed catch in number	Percentage
<i>Acanthocybium solandri</i>	Wahoo	414	2.89%
<i>Katsuwonus pelamis</i>	Skipjack tuna	2472	17.29%
<i>Lepidocybium flavobrunneum</i>	Escolar	209	1.46%
<i>Makaira nigricans</i>	Blue marlin	89	0.62%
<i>Prionace glauca</i>	Blue shark	56	0.39%
<i>Mola mola</i>	Ocean sunfish	17	0.12%
<i>Tetrapturus angustirostris</i>	Shortbill spearfish	266	1.86%
<i>Thunnus alalunga</i>	Albacore tuna*	9352	65.39%
<i>Thunnus albacares</i>	Yellowfin tuna	850	5.94%
<i>Thunnus obesus</i>	Bigeye tuna	451	3.15%
<i>Xiphias gladius</i>	Swordfish	53	0.37%
-	Unidentified sharks	72	0.50%
Total		14301	100.00%

Note: \* indicate target species

**FLEET INFORMATION (vessels >20m LOA)**

		Both set types combined						Shallow sets ( $<15$ HPB/HBF <sup>1</sup> or $<100$ m max hook depth)						Deep sets ( $\geq 15$ HPB/HBF or $\geq 100$ m max hook depth)					
		From			To			From			To			From			To		
Period covered	Date range	Day	Month	Year	Day	Month	Year	Day	Month	Year	Day	Month	Year	Day	Month	Year	Day	Month	Year
										Select	Select	Select	Select	Select	Select	2	AUG	2023	31
Area fished	Longitude	Deg.	Min.	Hem.	Deg.	Min.	Hem.	Deg.	Min.	Hem.	Deg.	Min.	Hem.	Deg.	Min.	Hem.	Deg.	Min.	Hem.
			W				W			W			W	88	0	W	149	0	W
Area fished	Latitude	Deg.	Min.	Hem.	Deg.	Min.	Hem.	Deg.	Min.	Hem.	Deg.	Min.	Hem.	Deg.	Min.	Hem.	Deg.	Min.	Hem.
			S				S			Select			Select	5	0	S	37	0	S
		Total Fleet		Observed		% observed		Total Fleet		Observed		% observed		Total Fleet		Observed		% observed	
No. of vessels that fished														128		23		18	
No. of trips																			
No. of effective days fishing														20244		2562		13	
No. of sets																			
No. of hooks (in thousands) <i>(If unknown, approx. no. of hooks/set, using a *)</i>														76922		8292		11	
Predominant <sup>2</sup> hook type/size (IATTC (IATTC code))														Circle hook		Circle hook			
Predominant bait type <sup>3</sup>								Select		Select				F		F			

<sup>1</sup> Hooks per basket / Hooks between floats

<sup>2</sup> "Predominant" means most common, i.e., >50%. [Click here for IATTC hook codes.](#)

<sup>3</sup> Bait code: SQ – squid; F – fishes (e.g. Scomber spp.); A – artificial lure (e.g. plastic jig)

**Add additional comments below**

No shallow set operation.








Billfishes									
BLM	Black marlin ( <i>Istiompax indica</i> )							1	1
BUM	Blue marlin ( <i>Makaira nigricans</i> )								7
SFA	Indo-Pacific sailfish ( <i>Istiophorus platypterus</i> )								2
SSP	Shortbill spearfish ( <i>Tetrapturus angustirostris</i> )							10	27
MLS	Striped marlin ( <i>Kajikia audax</i> )							3	2
									13

Add additional comments below									