

The Hawaii and California-based Pelagic Longline Vessels Annual Report for 1 January–31 December 2023¹

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The Hawaii and California-based pelagic longline logbook annual report for 2023 (1 January–31 December; PIFSC, 2024) contains summary data of fishing effort and catch statistics as reported from electronic or paper longline log sheets submitted by Hawaii- and California-based pelagic longline fishers. Catch and effort statistics are based on date of longline haul. Vessel and trip statistics that cross over two summary periods (i.e., years, semi-annual, or quarters) are counted in both summary periods. For example, a trip total **encompasses** “partial and complete” trips within a time period. These statistics are not additive since partial trips are counted in the time period when the trip began and again in the period when the trip ended (i.e., sum of four quarters or two semi-annual reports is not the total for the year).

Catch and effort summaries in this report were based on Regional Fishery Management Organization (RFMO) reporting standards and business rules. Longline catch and effort statistics in this report consist of U.S. longline fisheries in the North Pacific Ocean, attributions from CNMI, Guam, and American Samoa in the North Pacific Ocean. Longline vessels operating from California were also included in this report to satisfy RFMO data reporting and NOAA confidentiality standards.

Tables 1-5 show fishery statistics for the stated time period, area, and shallow sets (<15 hooks between floats) or deep sets ($\geq$ 15 hooks between floats). The longline effort includes number of vessels, trips, sets, and hooks set. Fish species were organized into pelagic management unit species (PMUS) groups of billfish, shark, tuna, and other PMUS. Each table includes the number of fish caught, kept, and released. The catch per unit effort (CPUE) is measured as the number of fish caught per 1000 hooks. Figures 1–26 show catch numbers, effort, and spatial distributions for important species during the stated time period, area, and set type for years 2000–2023.

References:

Pacific Islands Fisheries Science Center. (2024). *Hawaii Longline Logbook*
<https://www.fisheries.noaa.gov/inport/item/2721>

Southwest Fisheries Science Center. (2024). *California Pelagic Longline Fishery*
<https://www.fisheries.noaa.gov/inport/item/12906>

¹Data reported by fishers in electronic and paper logs were queried for 2023(1 January–31 December) from the Pacific Islands Fishery Science Center Information Management System oracle database from table LLDS_RPT_STATS_HC20240915_RFMO.

Table 1. Hawaii- and California-based pelagic longline vessels annual statistics for all fishing areas and all fishing categories (set types), including effort (number of vessels, trips, sets, and hooks set). For each listed species organized by pelagic management unit species (PMUS) groups of billfish, shark, tuna, and other, the table includes the number of fish caught, kept, and released, and the catch per unit effort (CPUE, number per 1000 hooks, calculated as the sum of fish caught divided by the sum of hooks set).

Report Coverage

Time Period 1 January–31 December 2023
Set Types All sets
Fishing Area All Areas

Number of vessels active	150
Number of trips (partial or completed)	1,664
Number of sets	22,967
Number of hooks set	67,438,020

Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught per 1000 Hooks
PMUS				
Billfish PMUS				
Blue marlin	5,739	5,689	50	0.09
Striped marlin	7,219	7,183	36	0.11
Shortbill spearfish	15,868	15,670	198	0.24
Swordfish	12,597	12,094	503	0.19
Other billfishes	629	621	8	0.01
Total	42,052	41,257	795	0.62
Shark PMUS				
Blue shark	81,754	0	81,754	1.21
Mako sharks	2,249	22	2,227	0.03
Thresher sharks	6,014	23	5,991	0.09
Oceanic whitetip shark	467	0	467	0.01
Silky shark	217	0	217	0.00
Total	90,701	45	90,656	1.34
Tuna PMUS				
Albacore	32,825	30,017	2,808	0.49
Bigeye tuna	167,378	165,591	1,787	2.48
Yellowfin tuna	84,329	82,977	1,352	1.25
Bluefin tuna	20	18	2	0.00
Skipjack tuna	7,054	6,968	86	0.10
Other tunas	4	0	4	0.00
Total	291,610	285,571	6,039	4.32
Other PMUS				
Mahimahi	44,454	43,982	472	0.66
Moonfish	4,826	4,800	26	0.07
Wahoo	23,896	23,784	112	0.35
Oilfish	8,024	6,068	1,956	0.12
Pomfret	29,157	28,985	172	0.43
Total	110,357	107,619	2,738	1.64
Total PMUS	534,720	434,492	100,228	7.93
Non-PMUS Sharks	289	0	289	0.00
Total Non-PMUS	7,112	152	6,960	0.11
Total All Species	541,832	434,644	107,188	8.03

Table 2. Hawaii- and California-based pelagic longline vessels annual statistics for fishing within the U.S. EEZ (main Hawaiian Islands, Northwestern Hawaiian Islands, or the Pacific Remote Islands) and with all fishing categories (set types), including effort (number of vessels, trips, sets, and hooks set). For each listed species organized by pelagic management unit species (PMUS) groups of billfish, shark, tuna, and other, the table includes the number of fish caught, kept, and released, and the catch per unit effort (CPUE, number per 1000 hooks, calculated as the sum of fish caught divided by the sum of hooks set).

Report Coverage					Number of vessels active143 Number of trips (partial or completed)825 Number of sets4,771 Number of hooks set14,030,241	
Time Period	1 January–31 December 2023					
Set Types	All sets					
Fishing Area	Inside U.S. EEZ					

Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught per 1000 Hooks
PMUS				
Billfish PMUS				
Blue marlin	1,179	1,169	10	0.08
Striped marlin	2,834	2,828	6	0.20
Shortbill spearfish	4,589	4,567	22	0.33
Swordfish	748	678	70	0.05
Other billfishes	91	91	0	0.01
Total	9,441	9,333	108	0.67
Shark PMUS				
Blue shark	17,695	0	17,695	1.26
Mako sharks	327	2	325	0.02
Thresher sharks	1,112	6	1,106	0.08
Oceanic whitetip shark	143	0	143	0.01
Silky shark	59	0	59	0.00
Total	19,336	8	19,328	1.38
Tuna PMUS				
Albacore	1,440	1,432	8	0.10
Bigeye tuna	26,272	26,028	244	1.87
Yellowfin tuna	15,129	14,858	271	1.08
Bluefin tuna	0	0	0	0.00
Skipjack tuna	1,987	1,957	30	0.14
Other tunas	2	0	2	0.00
Total	44,830	44,275	555	3.20
Other PMUS				
Mahimahi	4,596	4,562	34	0.33
Moonfish	326	325	1	0.02
Wahoo	4,044	4,031	13	0.29
Oilfish	2,079	1,659	420	0.15
Pomfret	4,465	4,433	32	0.32
Total	15,510	15,010	500	1.11
Total PMUS	89,117	68,626	20,491	6.35
Non-PMUS Sharks	78	0	78	0.01
Total Non-PMUS	2,316	55	2,261	0.17
Total All Species	91,433	68,681	22,752	6.52

Table 3. Hawaii- and California-based pelagic longline vessels annual statistics for fishing outside the U.S. EEZ and with all fishing categories (set types), including effort (number of vessels, trips, sets, and hooks set). For each listed species organized by pelagic management unit species (PMUS) groups of billfish, shark, tuna, and other, the table includes the number of fish caught, kept, and released, and the catch per unit effort (CPUE, number per 1000 hooks, calculated as the sum of fish caught divided by the sum of hooks set).

Report Coverage

Time Period 1 January–31 December 2023
Set Types All sets
Fishing Area Outside U.S. EEZ

Number of vessels active	149
Number of trips (partial or completed)	1,516
Number of sets	18,196
Number of hooks set	53,407,779

Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught per 1000 Hooks
PMUS				
Billfish PMUS				
Blue marlin	4,560	4,520	40	0.09
Striped marlin	4,385	4,355	30	0.08
Shortbill spearfish	11,279	11,103	176	0.21
Swordfish	11,849	11,416	433	0.22
Other billfishes	538	530	8	0.01
Total	32,611	31,924	687	0.61
Shark PMUS				
Blue shark	64,059	0	64,059	1.20
Mako sharks	1,922	20	1,902	0.04
Thresher sharks	4,902	17	4,885	0.09
Oceanic whitetip shark	324	0	324	0.01
Silky shark	158	0	158	0.00
Total	71,365	37	71,328	1.34
Tuna PMUS				
Albacore	31,385	28,585	2,800	0.59
Bigeye tuna	141,106	139,563	1,543	2.64
Yellowfin tuna	69,200	68,119	1,081	1.30
Bluefin tuna	20	18	2	0.00
Skipjack tuna	5,067	5,011	56	0.09
Other tunas	2	0	2	0.00
Total	246,780	241,296	5,484	4.62
Other PMUS				
Mahimahi	39,858	39,420	438	0.75
Moonfish	4,500	4,475	25	0.08
Wahoo	19,852	19,753	99	0.37
Oilfish	5,945	4,409	1,536	0.11
Pomfret	24,692	24,552	140	0.46
Total	94,847	92,609	2,238	1.78
Total PMUS	445,603	365,866	79,737	8.34
Non-PMUS Sharks	211	0	211	0.00
Total Non-PMUS	4,796	97	4,699	0.09
Total All Species	450,399	365,963	84,436	8.43

Table 4. Hawaii- and California-based pelagic longline vessels annual statistics for all fishing areas and with shallow set type, including effort (number of vessels, trips, sets, and hooks set). For each listed species organized by pelagic management unit species (PMUS) groups of billfish, shark, tuna, and other, the table includes the number of fish caught, kept, and released, and the catch per unit effort (CPUE, number per 1000 hooks, calculated as the sum of fish caught divided by the sum of hooks set).

Report Coverage

Time Period 1 January–31 December 2023
Set Types Shallow sets
Fishing Area All Areas

Number of vessels active	23
Number of trips (partial or completed)	71
Number of sets	853
Number of hooks set	1,079,571

Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught per 1000 Hooks
PMUS				
Billfish PMUS				
Blue marlin	23	22	1	0.02
Striped marlin	173	170	3	0.16
Shortbill spearfish	35	32	3	0.03
Swordfish	8,567	8,242	325	7.94
Other billfishes	6	6	0	0.01
Total	8,804	8,472	332	8.16
Shark PMUS				
Blue shark	6,791	0	6,791	6.29
Mako sharks	727	0	727	0.67
Thresher sharks	30	0	30	0.03
Oceanic whitetip shark	7	0	7	0.01
Silky shark	0	0	0	0.00
Total	7,555	0	7,555	7.00
Tuna PMUS				
Albacore	841	799	42	0.78
Bigeye tuna	671	622	49	0.62
Yellowfin tuna	909	875	34	0.84
Bluefin tuna	9	9	0	0.01
Skipjack tuna	16	16	0	0.01
Other tunas	0	0	0	0.00
Total	2,446	2,321	125	2.27
Other PMUS				
Mahimahi	2,357	2,346	11	2.18
Moonfish	12	12	0	0.01
Wahoo	52	36	16	0.05
Oilfish	192	40	152	0.18
Pomfret	7	6	1	0.01
Total	2,620	2,440	180	2.43
Total PMUS	21,425	13,233	8,192	19.85
Non-PMUS Sharks	11	0	11	0.01
Total Non-PMUS	80	2	78	0.07
Total All Species	21,505	13,235	8,270	19.92

Table 5. Hawaii- and California-based pelagic longline vessels annual statistics for all fishing areas and with deep set type, including effort (number of vessels, trips, sets, and hooks set). For each listed species organized by pelagic management unit species (PMUS) groups of billfish, shark, tuna, and other, the table includes the number of fish caught, kept, and released, and the catch per unit effort (CPUE, number per 1000 hooks, calculated as the sum of fish caught divided by the sum of hooks set).

Report Coverage

Time Period 1 January–31 December 2023
Set Types Deep sets
Fishing Area All Areas

Number of vessels active	150
Number of trips (partial or completed)	1,594
Number of sets	22,114
Number of hooks set	66,358,449

Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught per 1000 Hooks
PMUS				
Billfish PMUS				
Blue marlin	5,716	5,667	49	0.09
Striped marlin	7,046	7,013	33	0.11
Shortbill spearfish	15,833	15,638	195	0.24
Swordfish	4,030	3,852	178	0.06
Other billfishes	623	615	8	0.01
Total	33,248	32,785	463	0.50
Shark PMUS				
Blue shark	74,963	0	74,963	1.13
Mako sharks	1,522	22	1,500	0.02
Thresher sharks	5,984	23	5,961	0.09
Oceanic whitetip shark	460	0	460	0.01
Silky shark	217	0	217	0.00
Total	83,146	45	83,101	1.25
Tuna PMUS				
Albacore	31,984	29,218	2,766	0.48
Bigeye tuna	166,707	164,969	1,738	2.51
Yellowfin tuna	83,420	82,102	1,318	1.26
Bluefin tuna	11	9	2	0.00
Skipjack tuna	7,038	6,952	86	0.11
Other tunas	4	0	4	0.00
Total	289,164	283,250	5,914	4.36
Other PMUS				
Mahimahi	42,097	41,636	461	0.63
Moonfish	4,814	4,788	26	0.07
Wahoo	23,844	23,748	96	0.36
Oilfish	7,832	6,028	1,804	0.12
Pomfret	29,150	28,979	171	0.44
Total	107,737	105,179	2,558	1.62
Total PMUS	513,295	421,259	92,036	7.74
Non-PMUS Sharks	278	0	278	0.00
Total Non-PMUS	7,032	150	6,882	0.11
Total All Species	520,327	421,409	98,918	7.84

Table 7. Hawaii- and California-based pelagic longline vessels annual statistics for fishing within the U.S. EEZ (main Hawaiian Islands, Northwestern Hawaiian Islands, or the Pacific Remote Islands) and with deep sets, including effort (number of vessels, trips, sets, and hooks set). For each listed species organized by pelagic management unit species (PMUS) groups of billfish, shark, tuna, and other, the table includes the number of fish caught, kept, and released, and the catch per unit effort (CPUE, number per 1000 hooks, calculated as the sum of fish caught divided by the sum of hooks set).

Report Coverage					Number of vessels active143 Number of trips (partial or completed)819 Number of sets4,765 Number of hooks set14,023,131	
Time Period	1 January–31 December 2023					
Set Types	Deep sets					
Fishing Area	Inside U.S. EEZ					

Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught per 1000 Hooks
PMUS				
Billfish PMUS				
Blue marlin	1,179	1,169	10	0.08
Striped marlin	2,826	2,820	6	0.20
Shortbill spearfish	4,589	4,567	22	0.33
Swordfish	735	666	69	0.05
Other billfishes	91	91	0	0.01
Total	9,420	9,313	107	0.67
Shark PMUS				
Blue shark	17,667	0	17,667	1.26
Mako sharks	325	2	323	0.02
Thresher sharks	1,110	6	1,104	0.08
Oceanic whitetip shark	143	0	143	0.01
Silky shark	59	0	59	0.00
Total	19,304	8	19,296	1.38
Tuna PMUS				
Albacore	1,440	1,432	8	0.10
Bigeye tuna	26,271	26,027	244	1.87
Yellowfin tuna	15,125	14,854	271	1.08
Bluefin tuna	0	0	0	0.00
Skipjack tuna	1,987	1,957	30	0.14
Other tunas	2	0	2	0.00
Total	44,825	44,270	555	3.20
Other PMUS				
Mahimahi	4,594	4,560	34	0.33
Moonfish	326	325	1	0.02
Wahoo	4,043	4,030	13	0.29
Oilfish	2,078	1,658	420	0.15
Pomfret	4,464	4,433	31	0.32
Total	15,505	15,006	499	1.11
Total PMUS	89,054	68,597	20,457	6.35
Non-PMUS Sharks	78	0	78	0.01
Total Non-PMUS	2,316	55	2,261	0.17
Total All Species	91,370	68,652	22,718	6.52

Table 8. Hawaii- and California-based pelagic longline vessels annual statistics for fishing outside the U.S. EEZ and with deep sets, including effort (number of vessels, trips, sets, and hooks set). For each listed species organized by pelagic management unit species (PMUS) groups of billfish, shark, tuna, and other, the table includes the number of fish caught, kept, and released, and the catch per unit effort (CPUE, number per 1000 hooks, calculated as the sum of fish caught divided by the sum of hooks set).

Report Coverage

Time Period 1 January–31 December 2023
Set Types Deep sets
Fishing Area Outside U.S. EEZ

Number of vessels active	149
Number of trips (partial or completed)	1,447
Number of sets	17,349
Number of hooks set	52,335,318

Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught per 1000 Hooks
PMUS				
Billfish PMUS				
Blue marlin	4,537	4,498	39	0.09
Striped marlin	4,220	4,193	27	0.08
Shortbill spearfish	11,244	11,071	173	0.21
Swordfish	3,295	3,186	109	0.06
Other billfishes	532	524	8	0.01
Total	23,828	23,472	356	0.46
Shark PMUS				
Blue shark	57,296	0	57,296	1.09
Mako sharks	1,197	20	1,177	0.02
Thresher sharks	4,874	17	4,857	0.09
Oceanic whitetip shark	317	0	317	0.01
Silky shark	158	0	158	0.00
Total	63,842	37	63,805	1.22
Tuna PMUS				
Albacore	30,544	27,786	2,758	0.58
Bigeye tuna	140,436	138,942	1,494	2.68
Yellowfin tuna	68,295	67,248	1,047	1.30
Bluefin tuna	11	9	2	0.00
Skipjack tuna	5,051	4,995	56	0.10
Other tunas	2	0	2	0.00
Total	244,339	238,980	5,359	4.67
Other PMUS				
Mahimahi	37,503	37,076	427	0.72
Moonfish	4,488	4,463	25	0.09
Wahoo	19,801	19,718	83	0.38
Oilfish	5,754	4,370	1,384	0.11
Pomfret	24,686	24,546	140	0.47
Total	92,232	90,173	2,059	1.76
Total PMUS	424,241	352,662	71,579	8.11
Non-PMUS Sharks	200	0	200	0.00
Total Non-PMUS	4,716	95	4,621	0.09
Total All Species	428,957	352,757	76,200	8.20

Table 10. Hawaii- and California-based pelagic longline vessels annual statistics for fishing within the U.S. EEZ (main Hawaiian Islands, Northwestern Hawaiian Islands, or the Pacific Remote Islands) and with shallow sets, including effort (number of vessels, trips, sets, and hooks set). For each listed species organized by pelagic management unit species (PMUS) groups of billfish, shark, tuna, and other, the table includes the number of fish caught, kept, and released, and the catch per unit effort (CPUE, number per 1000 hooks, calculated as the sum of fish caught divided by the sum of hooks set).

Report Coverage

Time Period 1 January–31 December 2023
Set Types Shallow sets
Fishing Area Inside U.S. EEZ

Number of vessels active	5
Number of trips (partial or completed)	6
Number of sets	6
Number of hooks set	7,110

Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught per 1000 Hooks
PMUS				
Billfish PMUS				
Blue marlin	0	0	0	0.00
Striped marlin	8	8	0	1.13
Shortbill spearfish	0	0	0	0.00
Swordfish	13	12	1	1.83
Other billfishes	0	0	0	0.00
Total	21	20	1	2.95
Shark PMUS				
Blue shark	28	0	28	3.94
Mako sharks	2	0	2	0.28
Thresher sharks	2	0	2	0.28
Oceanic whitetip shark	0	0	0	0.00
Silky shark	0	0	0	0.00
Total	32	0	32	4.50
Tuna PMUS				
Albacore	0	0	0	0.00
Bigeye tuna	1	1	0	0.14
Yellowfin tuna	4	4	0	0.56
Bluefin tuna	0	0	0	0.00
Skipjack tuna	0	0	0	0.00
Other tunas	0	0	0	0.00
Total	5	5	0	0.70
Other PMUS				
Mahimahi	2	2	0	0.28
Moonfish	0	0	0	0.00
Wahoo	1	1	0	0.14
Oilfish	1	1	0	0.14
Pomfret	1	0	1	0.14
Total	5	4	1	0.70
Total PMUS	63	29	34	8.86
Non-PMUS Sharks	0	0	0	0.00
Total Non-PMUS	0	0	0	0.00
Total All Species	63	29	34	8.86

Table 11. Hawaii- and California-based pelagic longline vessels annual statistics for fishing outside the U.S. EEZ and with shallow sets, including effort (number of vessels, trips, sets, and hooks set). For each listed species organized by pelagic management unit species (PMUS) groups of billfish, shark, tuna, and other, the table includes the number of fish caught, kept, and released, and the catch per unit effort (CPUE, number per 1000 hooks, calculated as the sum of fish caught divided by the sum of hooks set).

Report Coverage

Time Period 1 January–31 December 2023
Set Types Shallow sets
Fishing Area Outside U.S. EEZ

Number of vessels active	22
Number of trips (partial or completed)	70
Number of sets	847
Number of hooks set	1,072,461

Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught per 1000 Hooks
PMUS				
Billfish PMUS				
Blue marlin	23	22	1	0.02
Striped marlin	165	162	3	0.15
Shortbill spearfish	35	32	3	0.03
Swordfish	8,554	8,230	324	7.98
Other billfishes	6	6	0	0.01
Total	8,783	8,452	331	8.19
Shark PMUS				
Blue shark	6,763	0	6,763	6.31
Mako sharks	725	0	725	0.68
Thresher sharks	28	0	28	0.03
Oceanic whitetip shark	7	0	7	0.01
Silky shark	0	0	0	0.00
Total	7,523	0	7,523	7.01
Tuna PMUS				
Albacore	841	799	42	0.78
Bigeye tuna	670	621	49	0.62
Yellowfin tuna	905	871	34	0.84
Bluefin tuna	9	9	0	0.01
Skipjack tuna	16	16	0	0.01
Other tunas	0	0	0	0.00
Total	2,441	2,316	125	2.28
Other PMUS				
Mahimahi	2,355	2,344	11	2.20
Moonfish	12	12	0	0.01
Wahoo	51	35	16	0.05
Oilfish	191	39	152	0.18
Pomfret	6	6	0	0.01
Total	2,615	2,436	179	2.44
Total PMUS	21,362	13,204	8,158	19.92
Non-PMUS Sharks	11	0	11	0.01
Total Non-PMUS	80	2	78	0.07
Total All Species	21,442	13,206	8,236	19.99

Active Vessels

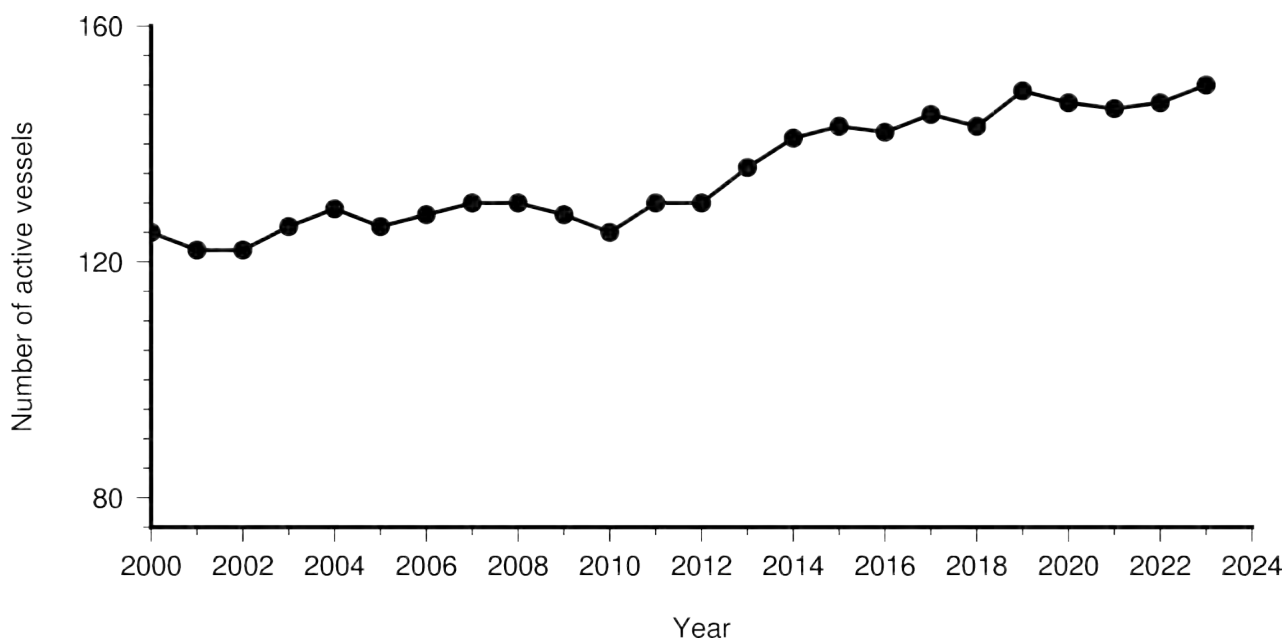


Figure 1: Number of active longline vessels based in Hawaii and California by year from 2000–2023.

Trips

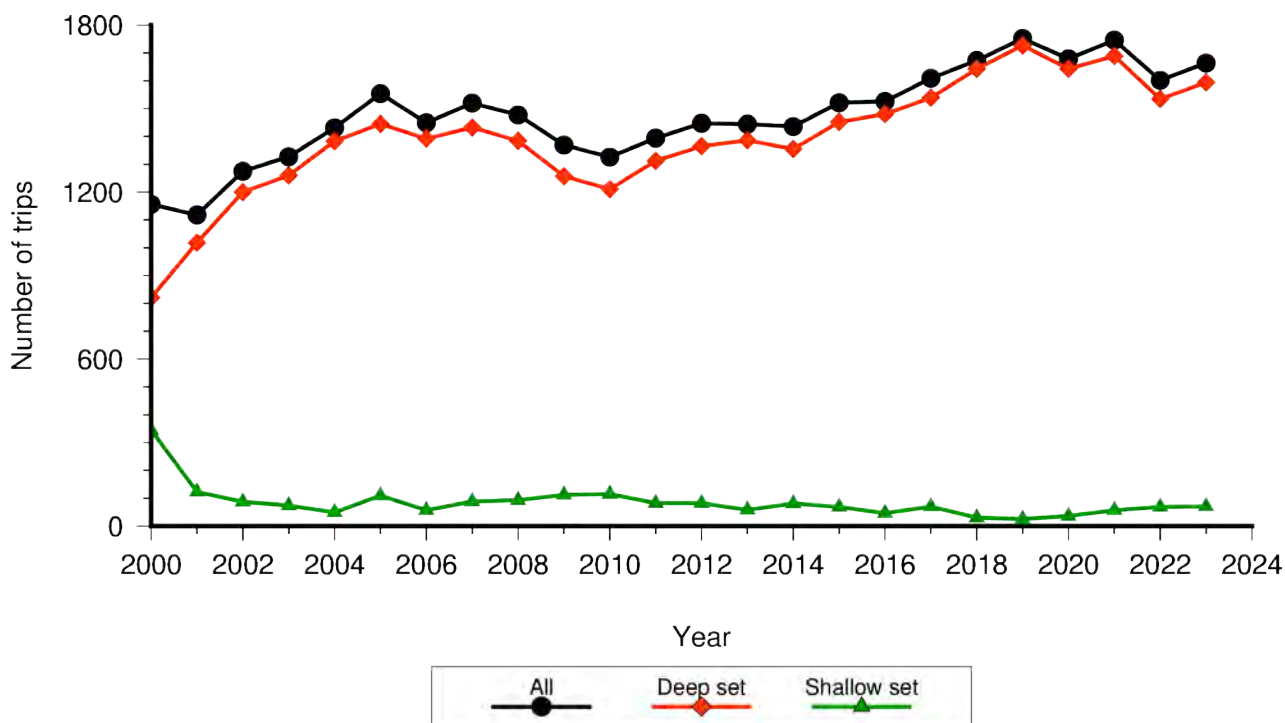


Figure 2: Number of longline trips based in Hawaii and California, by year from 2000–2023.

Sets

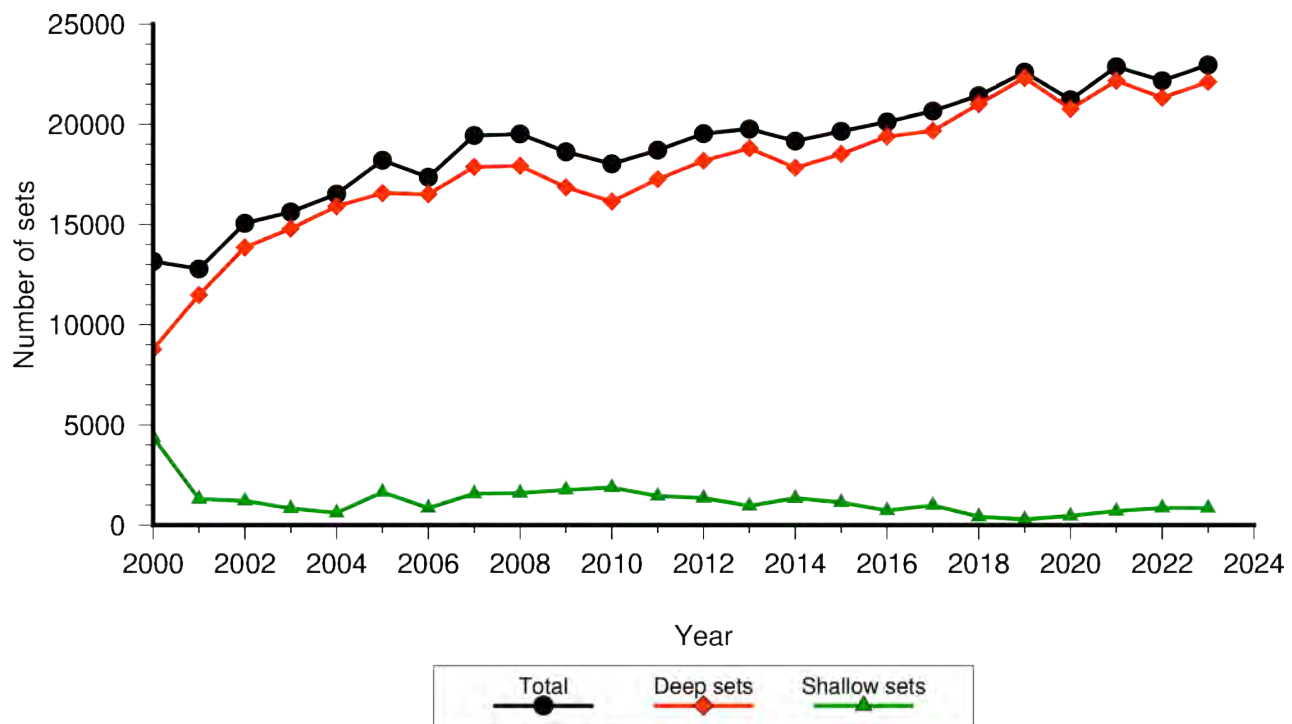


Figure 3: Number of fishing sets by vessels based in Hawaii and California by year from 2000–2023.

Hooks Set

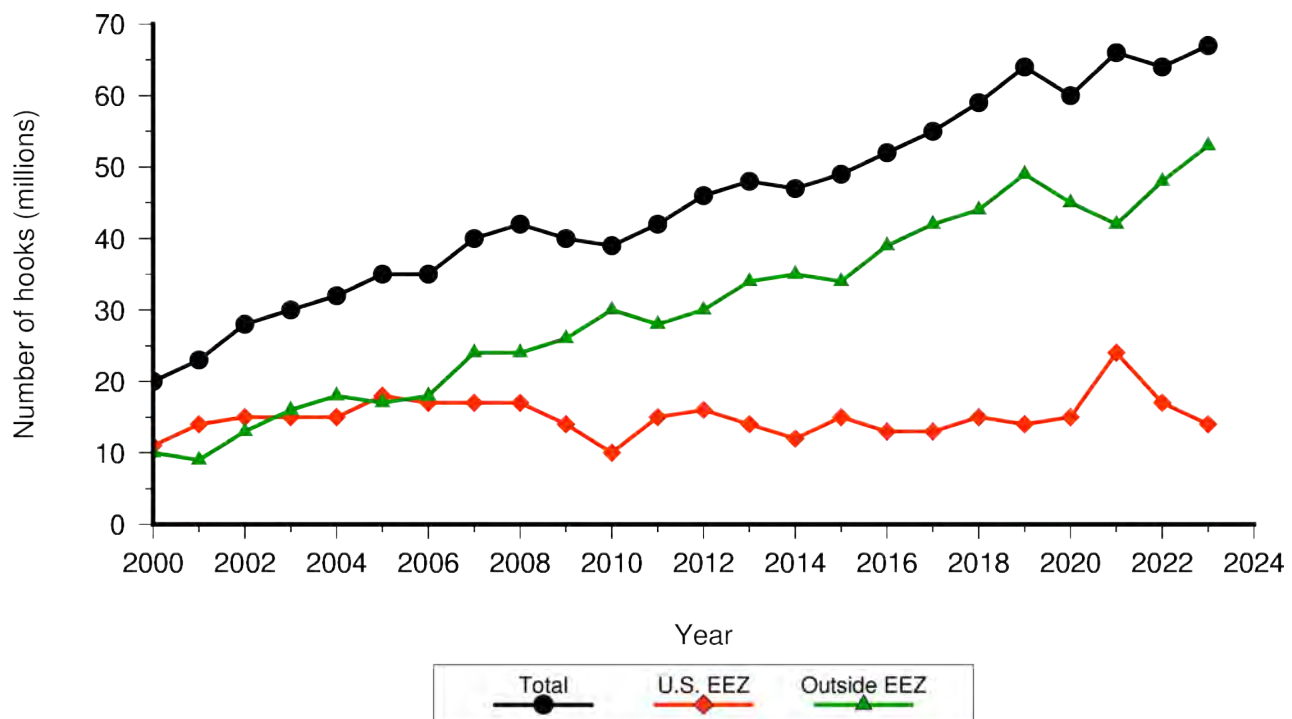


Figure 4: Number of hooks in millions, set by vessels based in Hawaii and California by year from 2000–2023.

Tuna Catch

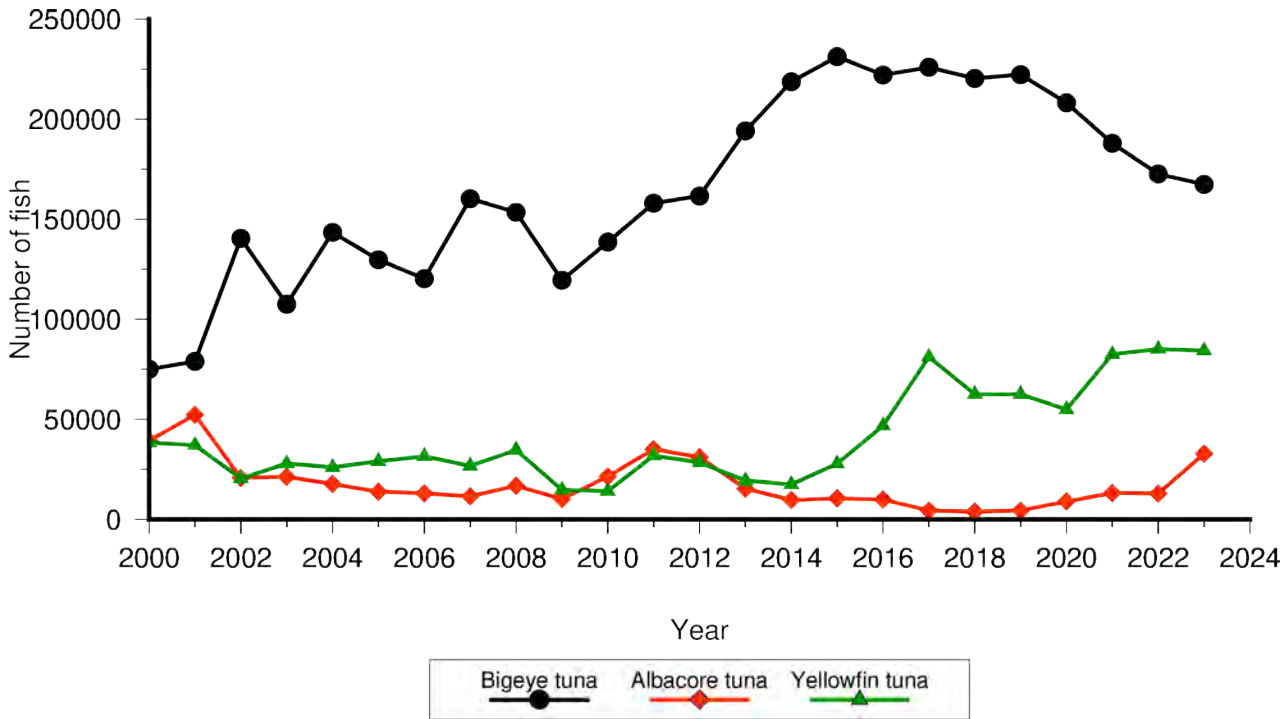


Figure 5: Annual catch (kept + released) of albacore tuna, bigeye tuna, and yellowfin tuna by longline vessels based in Hawaii and California by year from 2000–2023.

Billfish Catch

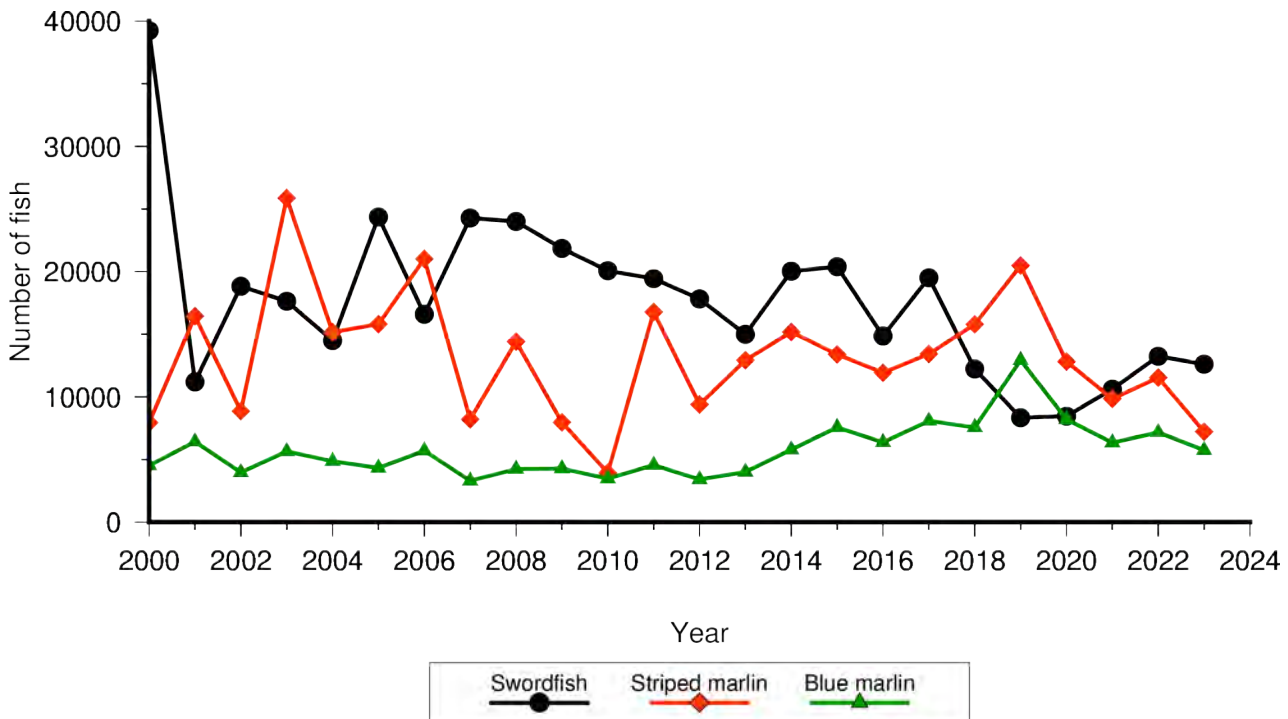


Figure 6: Annual catch (kept + released) of swordfish, striped marlin, and blue marlin by longline vessels based in Hawaii and California by year from 2000–2023.

Shark Catch

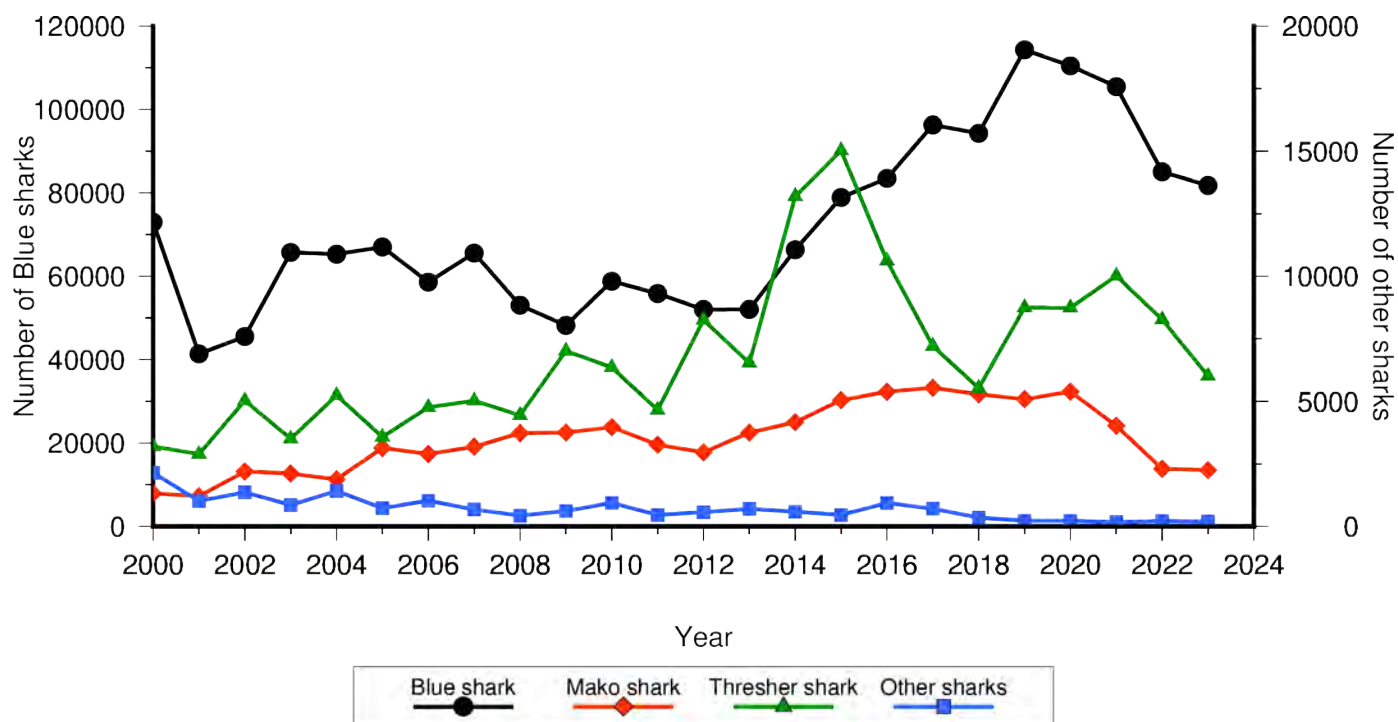


Figure 7: Annual catch (kept + released) of blue shark, mako shark, thresher shark, and other sharks by longline vessels based in Hawaii and California by year from 2000–2023.

Other PMUS Catch

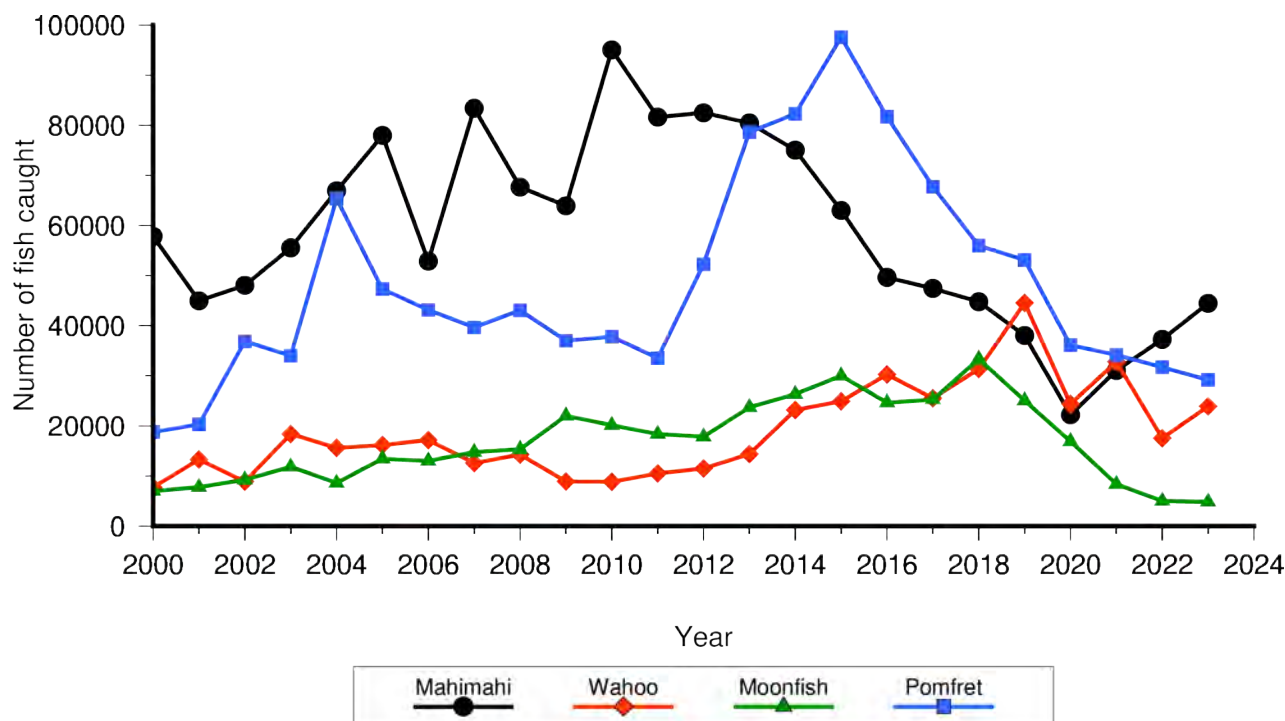


Figure 8: Annual catch (kept + released) of mahimahi, wahoo, moonfish, and pomfret by longline vessels based in Hawaii and California by year from 2000–2023.

Sets

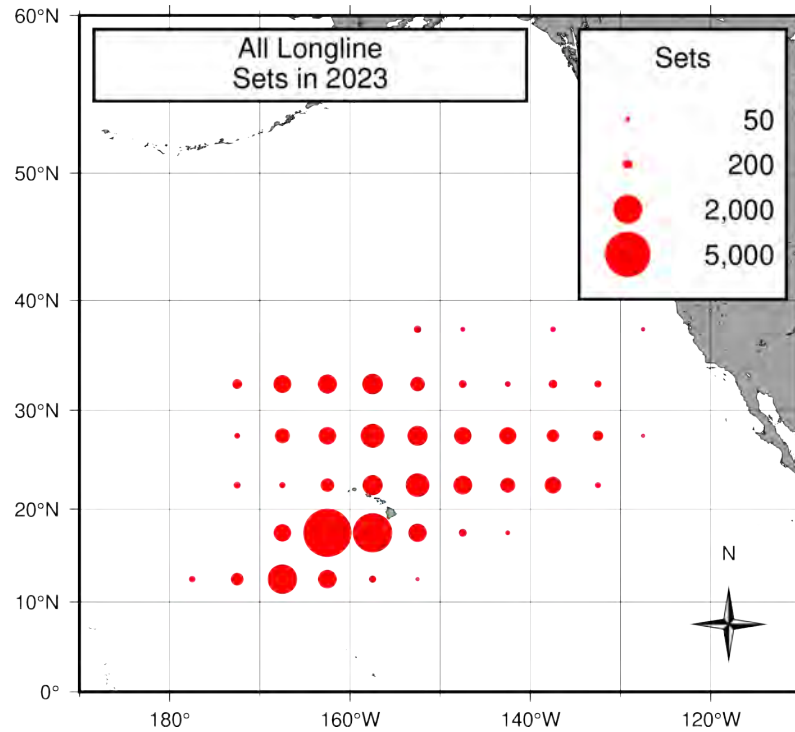


Figure 9: Spatial distribution of the total number of sets by longline vessels based in Hawaii and California fishing within the North Pacific Ocean, 2023 (provisional data).

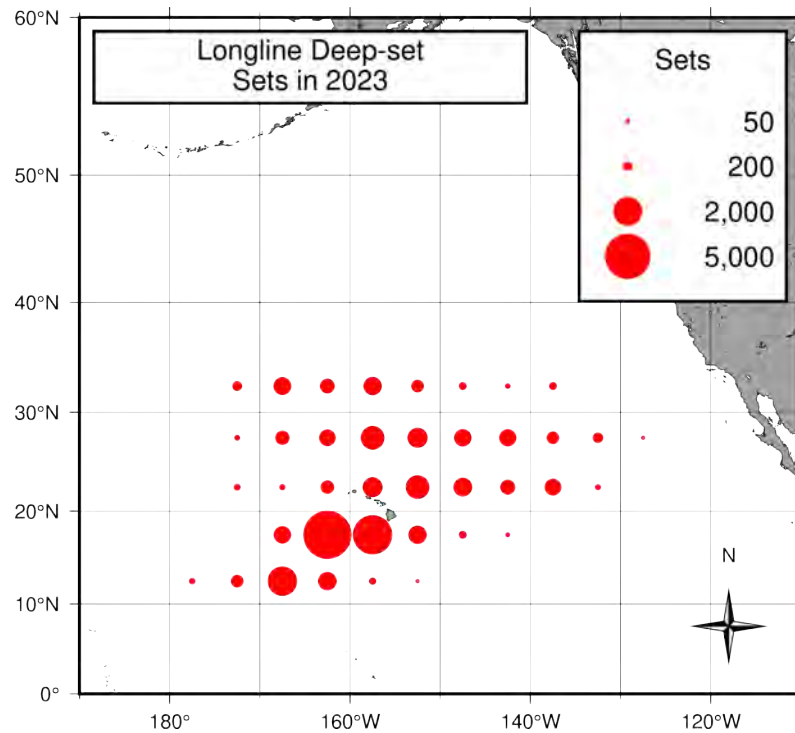


Figure 10: Spatial distribution of the number of deep-set sets by longline vessels based in Hawaii and California fishing within the North Pacific Ocean, 2023 (provisional data).

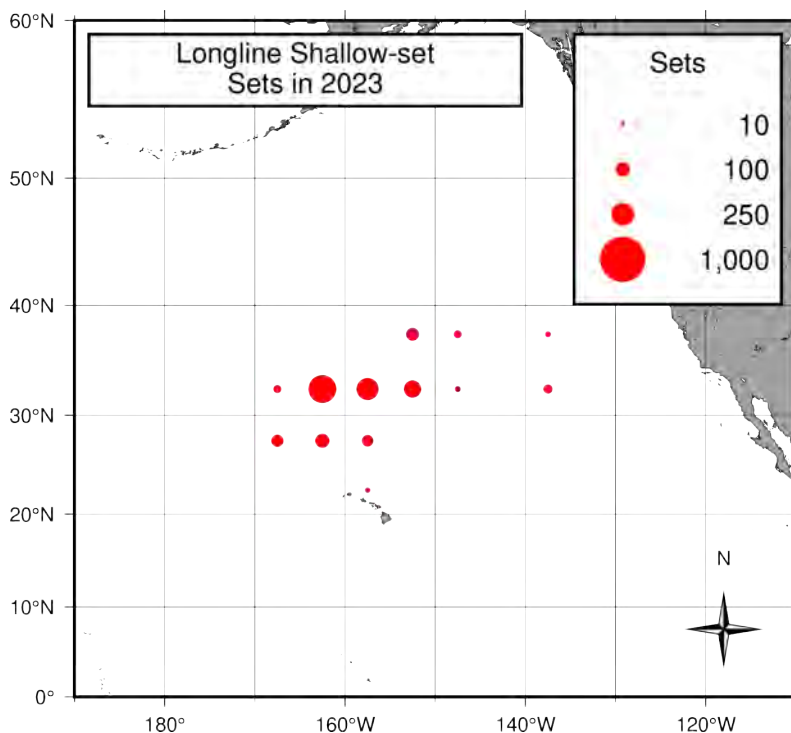


Figure 11: Spatial distribution of the number of shallow-set sets by longline vessels based in Hawaii and California fishing within the North Pacific Ocean, 2023 (provisional data).

Total Effort

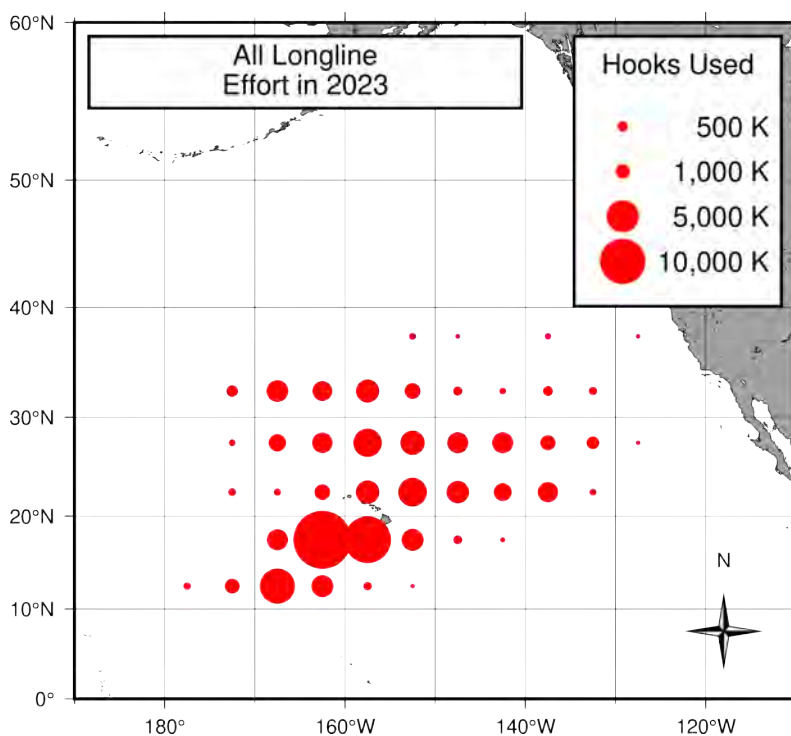


Figure 12: Spatial distribution of the total number of hooks set by longline vessels based in Hawaii and California fishing within the North Pacific Ocean, 2023 (provisional data).

Deep Effort

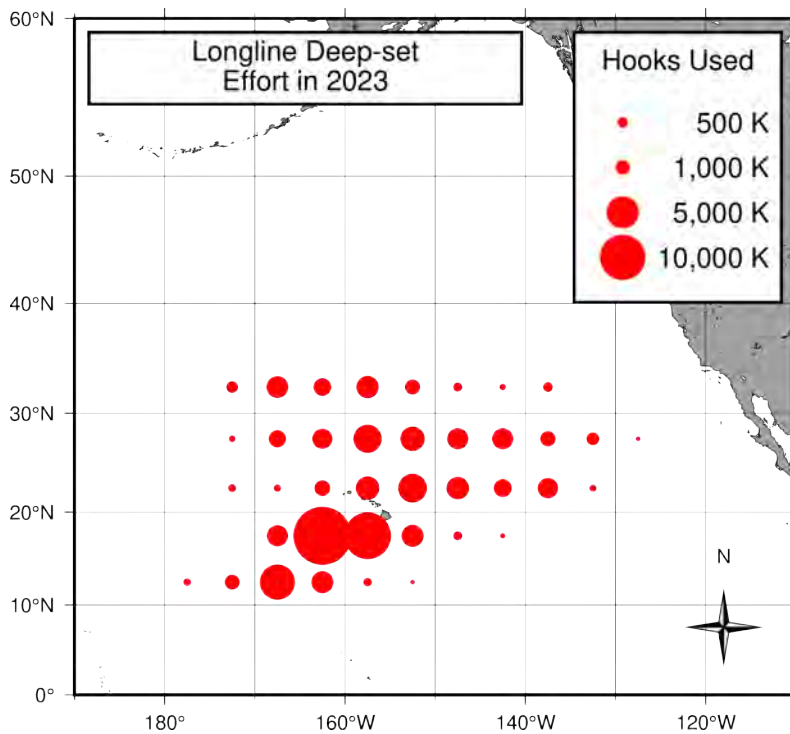


Figure 13: Spatial distribution of the number of deep-set hooks set by longline vessels based in Hawaii and California fishing within the North Pacific Ocean, 2023 (provisional data).

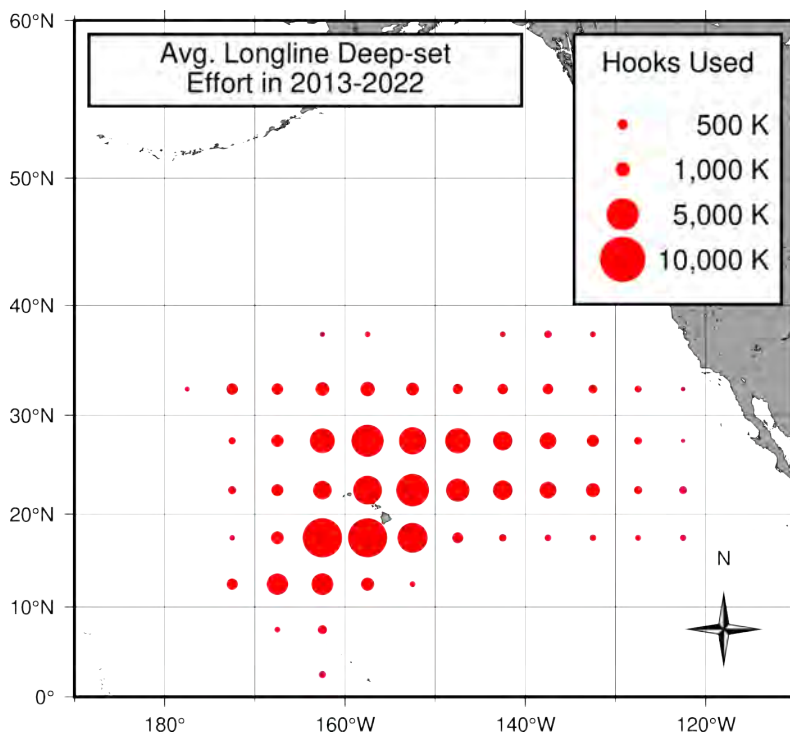


Figure 14: Spatial distribution of the 10-year average number of deep-set hooks set by longline vessels based in Hawaii and California fishing within the North Pacific Ocean from 2013–2022 .

Shallow Effort

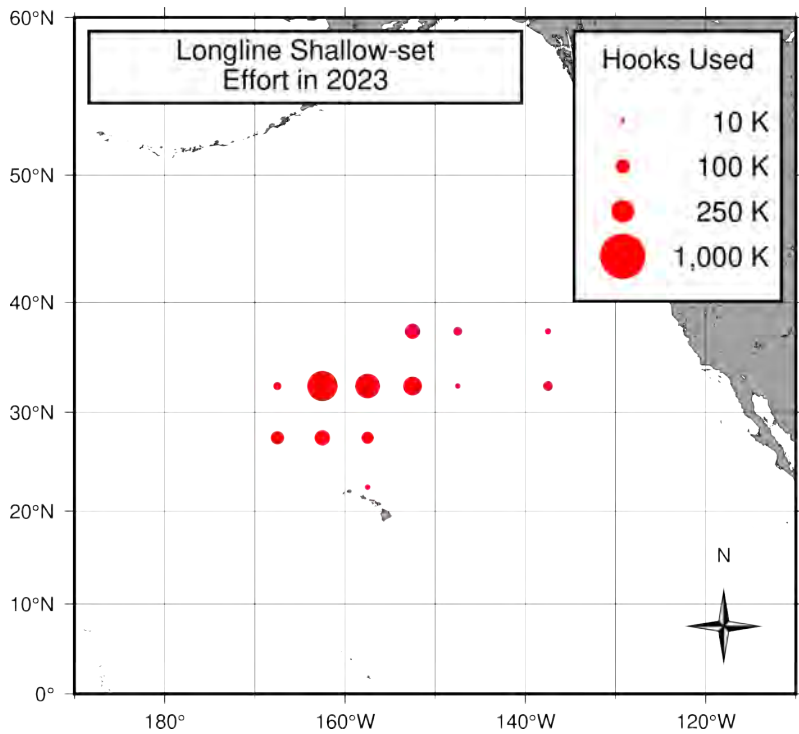


Figure 15: Spatial distribution of the number of shallow-set hooks set by longline vessels based in Hawaii and California fishing within the North Pacific Ocean, 2023 (provisional data).

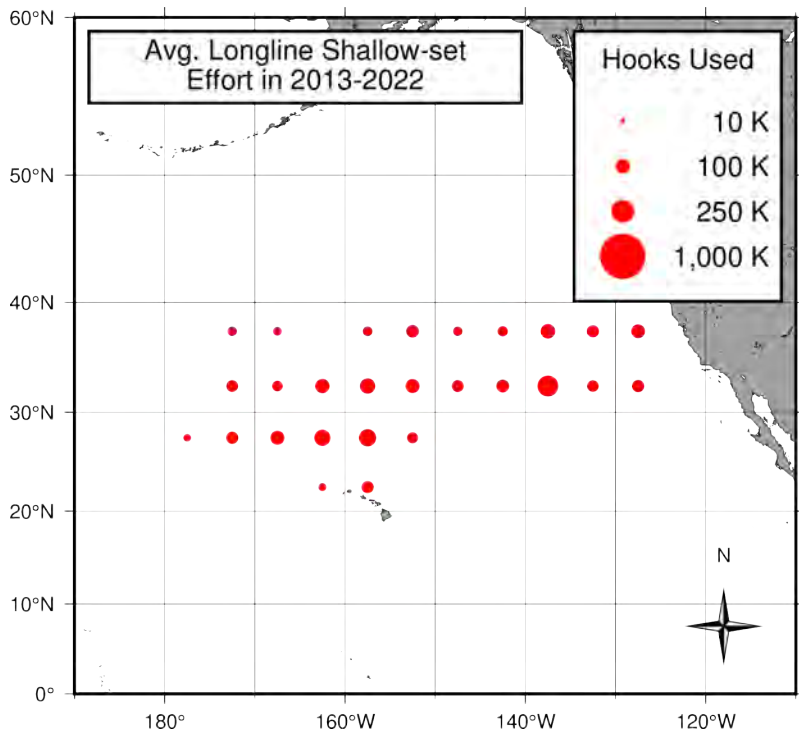


Figure 16: Spatial distribution of the 10-year average number of shallow-set hooks set by longline vessels based in Hawaii and California fishing within the North Pacific Ocean from 2013–2022.

Bigeye Catch

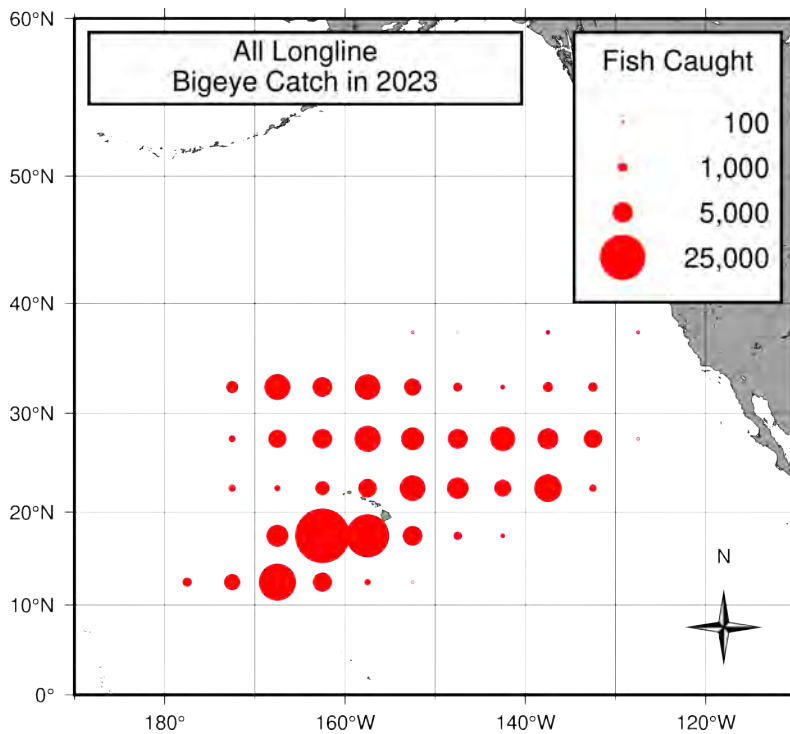


Figure 17: Spatial distribution of the total number of bigeye tuna caught by longline vessels based in Hawaii and California fishing within the North Pacific Ocean, 2023 (provisional data).

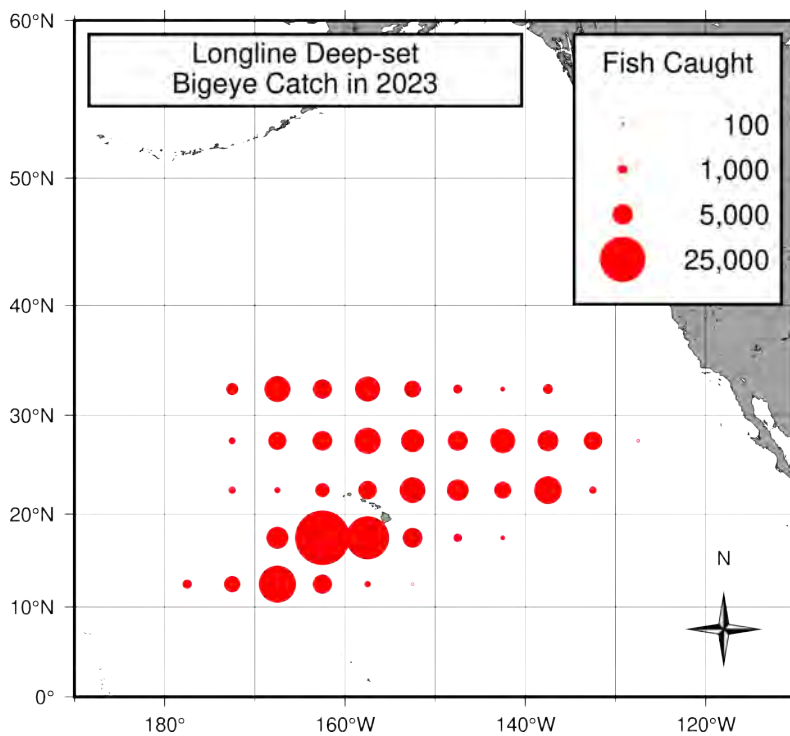


Figure 18: Spatial distribution of the number of deep-set bigeye tuna caught by longline vessels based in Hawaii and California fishing within the North Pacific Ocean, 2023 (provisional data).

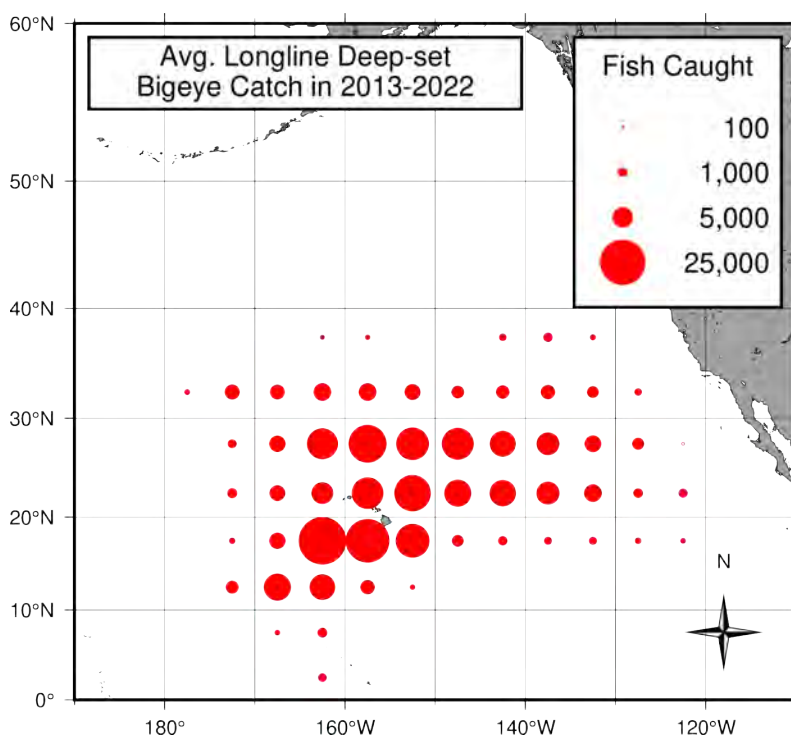


Figure 19: Spatial distribution of the 10-year average number of deep-set bigeye tuna caught by longline vessels based in Hawaii and California fishing within the North Pacific Ocean from 2013–2022.

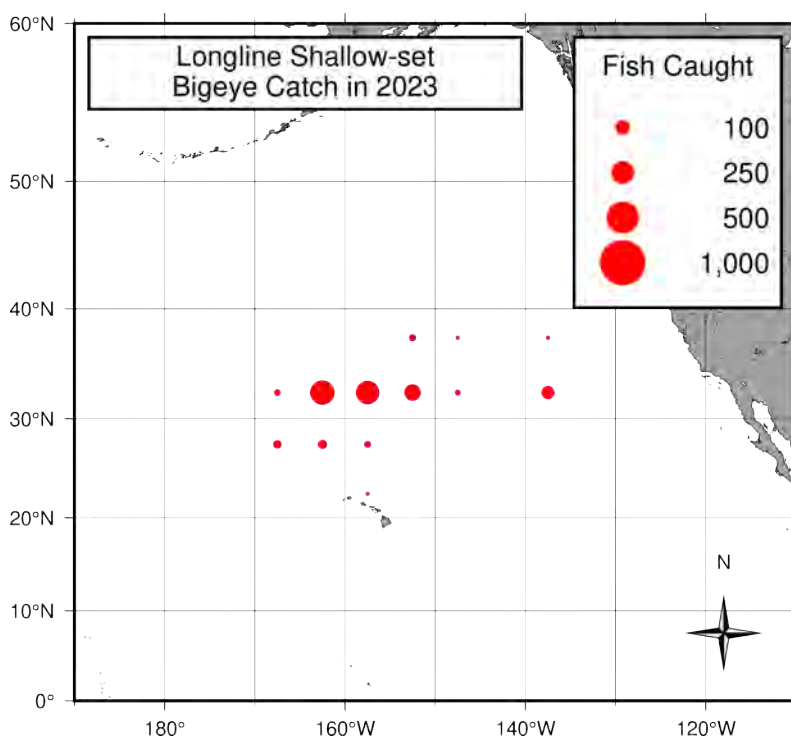


Figure 20: Spatial distribution of the number of shallow-set bigeye tuna caught by longline vessels based in Hawaii and California fishing within the North Pacific Ocean, 2023 (provisional data).

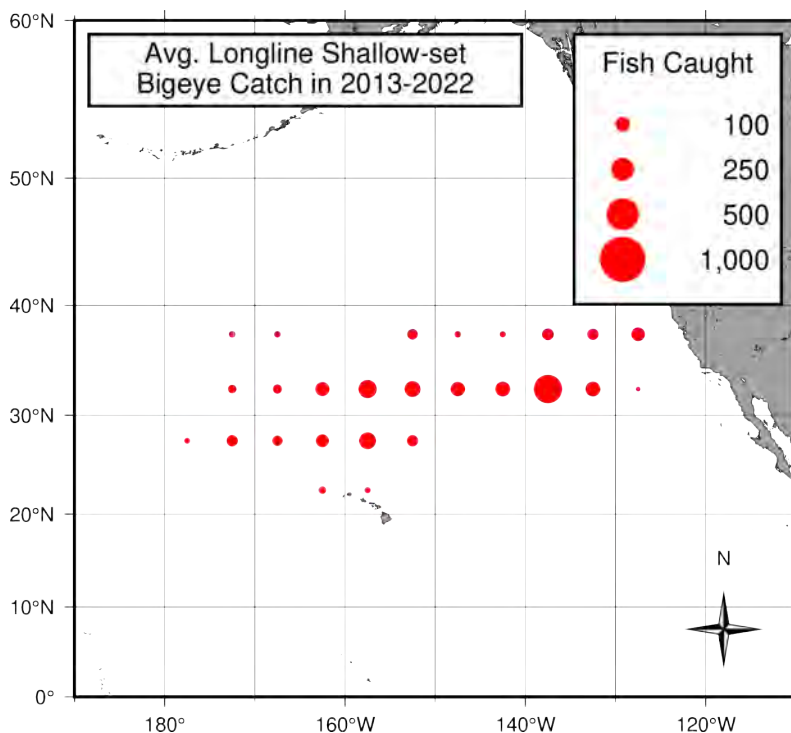


Figure 21: Spatial distribution of the 10-year average number of shallow-set bigeye tuna caught by longline vessels based in Hawaii and California fishing within the North Pacific Ocean from 2013–2022.

Swordfish

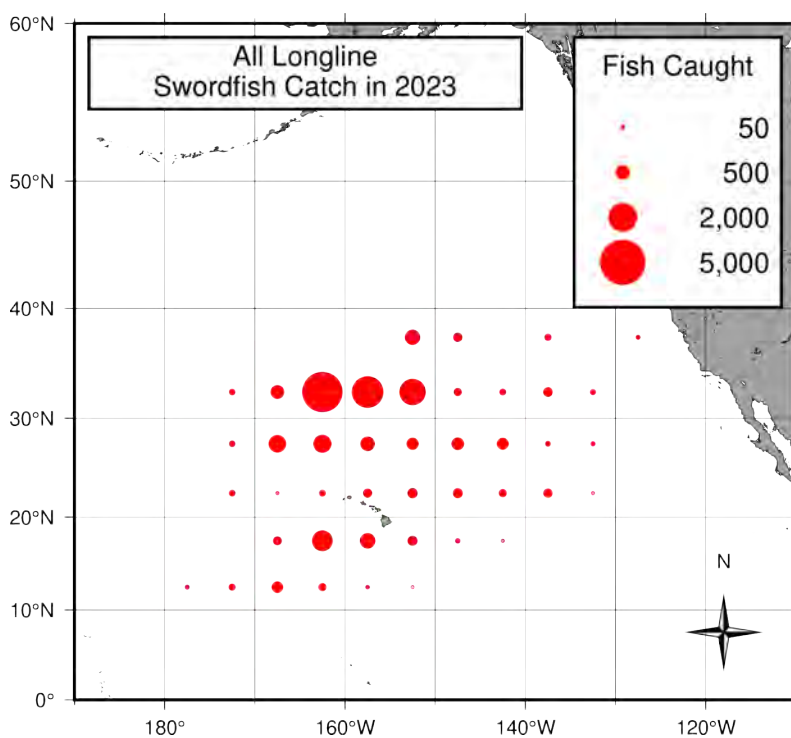


Figure 22: Spatial distribution of the total number of swordfish caught, by longline vessels based in Hawaii and California fishing within the North Pacific Ocean, 2023 (provisional data).

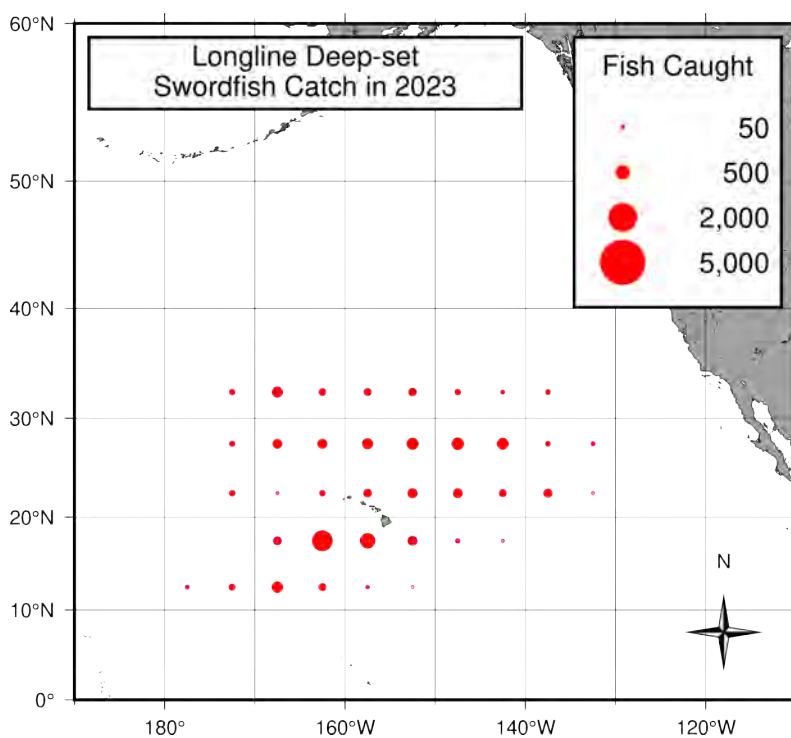


Figure 23: Spatial distribution of the number of deep-set swordfish caught, by longline vessels based in Hawaii and California fishing within the North Pacific Ocean, 2023 (provisional data).

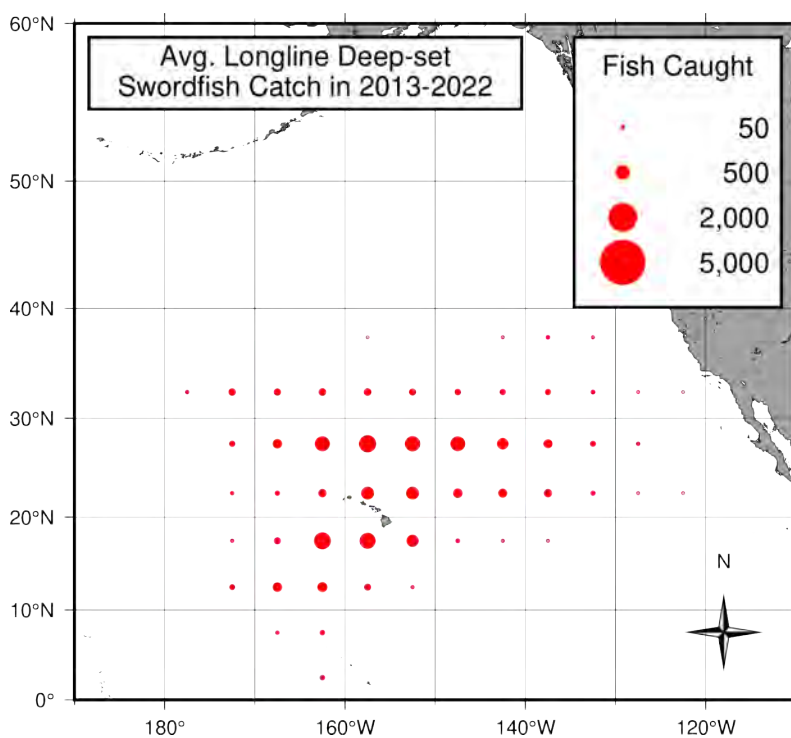


Figure 24: Spatial distribution of the 10-year average number of deep-set swordfish caught, by longline vessels based in Hawaii and California fishing within the North Pacific Ocean from 2013-2022.

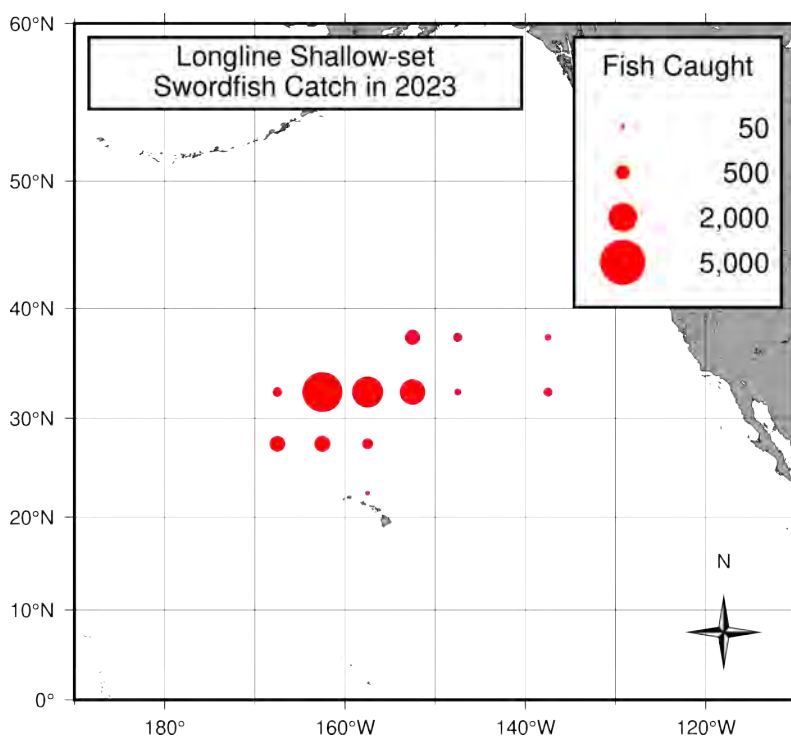


Figure 25: Spatial distribution of the number of shallow-set swordfish caught, by longline vessels based in Hawaii and California fishing within the North Pacific Ocean, 2023 (provisional data).

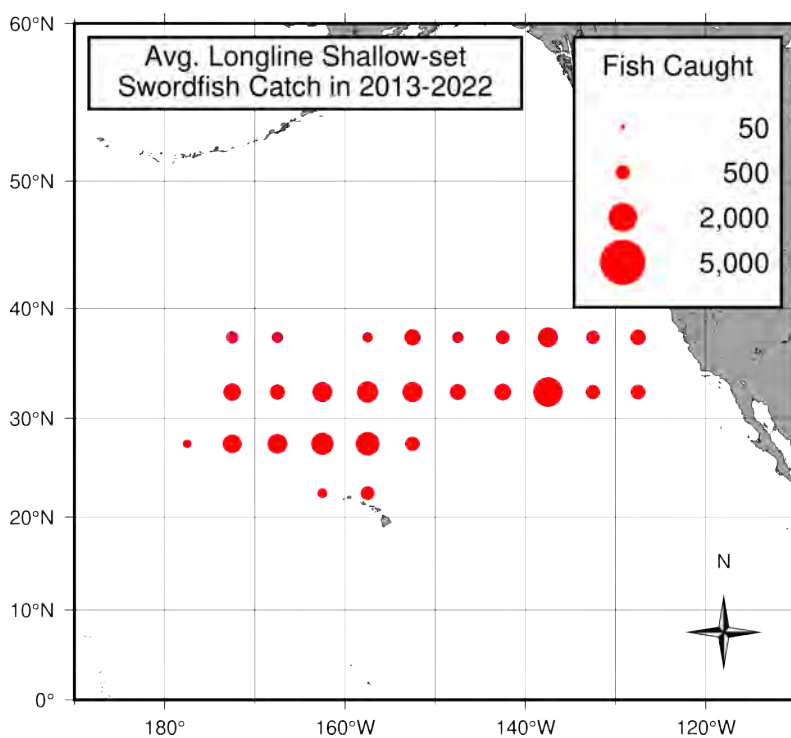


Figure 26: Spatial distribution of the 10-year average number of shallow-set swordfish caught, by longline vessels based in Hawaii and California fishing within the North Pacific Ocean from 2013–2022.