

**PIFSC Report on the American Samoa Limited-access Longline Fishery
from 1 January to 31 December 2016¹**

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The following tables represent effort, retained catch (kept) and discards as reported on longline logsheets for the American Samoa limited-access longline fishery. Effort and catch-effort statistics are based on date of longline haul. Effort and catch statistics are based on logbook data submitted to the PIFSC, FRMD and represent an Oracle table LLDS_REPORT_STATS_AS database extraction done on 31 March 2017. When a statistic (number of vessels, trips) can involve dates of haul in 2 summary periods (i.e. years, semi-annual, quarters), the item is counted in both summary periods. Thus, a trip total is for “partial and completed” trips. As such, these statistics are not additive (i.e. sum of 4 quarters is not the total for the year, etc).

A Large Vessel Prohibited Area (LVPA) was in effect from 1 March 2002 to 29 January 2016. Effort and catch statistics for 2016 are provided for the vessels fishing in what previously were LVPAs but were reopened in 2016. Effort in the reopened Swain’s LVPA represented 4.9% of the total longline effort from the American Samoa permitted longline fishery. Effort in the reopened Tutuila LVPA represented 8.8% of the total longline effort from the American Samoa permitted longline fishery.

Note: the following estimates represent a revision from preliminary estimates provided to the WPRFMC Science and Statistical Committee (8 March 2017) and Council meeting (21 March 2017).

¹PIFSC Internal Report DR-17-013.

Issued 28 April 2017.

Table 1. Annual summary report of fishing effort and catch statistics for U.S. longline vessels based in American Samoa as derived from NMFS Western Pacific Daily Longline Fishing Log records. Catch and effort statistics are based on date of longline haul. Data Source: PIFSC Information Management System, Longline Logbook Data.

Report Coverage

Time Period 1 January - 31 December, 2016
Set Types All Sets
Fishing Area All Areas

Number of vessels active	20
Number of trips (partial or completed)	214
Number of sets	2,412
Number of hooks set	6,789,400

Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught Per 1000 Hooks
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PMUS

Billfish PMUS

Blue marlin	559	500	59	0.08
Striped marlin	69	58	11	0.01
Shortbill spearfish	260	84	176	0.04
Swordfish	132	114	18	0.02
Other billfishes	161	73	88	0.02
Total	1,181	829	352	0.17

Shark PMUS

Blue shark	3,177	18	3,159	0.47
Mako sharks	193	3	190	0.03
Thresher sharks	426	2	424	0.06
Oceanic whitetip shark	771	1	770	0.11
Silky shark	445	0	445	0.07
Other Sharks	94	2	92	0.01
Total	5,106	26	5,080	0.75

Tuna PMUS

Albacore	80,156	79,638	518	11.81
Bigeye tuna	3,218	3,187	31	0.47
Yellowfin tuna	17,796	17,626	170	2.62
Bluefin tuna	2	2	0	0.00
Skipjack tuna	13,576	13,299	277	2.00
Other tunas	0	0	0	0.00
Total	114,748	113,752	996	16.90

Other PMUS

Mahimahi	432	410	22	0.06
Moonfish	141	89	52	0.02
Wahoo	4,727	4,619	108	0.70
Oilfish	4,273	178	4,095	0.63
Pomfret	461	91	370	0.07
Total	10,034	5,387	4,647	1.48

Total PMUS	131,069	119,994	11,075	19.30
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Total Non-PMUS	2,730	127	2,603	0.40
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Total All Species	133,799	120,121	13,678	19.71
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Table 2. Annual summary report of fishing effort and catch statistics for U.S. longline vessels based in American Samoa as derived from NMFS Western Pacific Daily Longline Fishing Log records. Catch and effort statistics are based on date of longline haul. Data Source: PIFSC Information Management System, Longline Logbook Data.

Report Coverage

Time Period 1 January - 31 December, 2016
Set Types All Sets
Fishing Area American Samoa EEZ

Number of vessels active	19
Number of trips (partial or completed)	213
Number of sets	2,391
Number of hooks set	6,726,633

Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught Per 1000 Hooks
PMUS				
Billfish PMUS				
Blue marlin	550	491	59	0.08
Striped marlin	68	57	11	0.01
Shortbill spearfish	251	77	174	0.04
Swordfish	132	114	18	0.02
Other billfishes	160	72	88	0.02
Total	1,161	811	350	0.17
Shark PMUS				
Blue shark	3,097	18	3,079	0.46
Mako sharks	193	3	190	0.03
Thresher sharks	423	2	421	0.06
Oceanic whitetip shark	760	1	759	0.11
Silky shark	445	0	445	0.07
Other Sharks	94	2	92	0.01
Total	5,012	26	4,986	0.75
Tuna PMUS				
Albacore	79,814	79,297	517	11.87
Bigeye tuna	3,165	3,134	31	0.47
Yellowfin tuna	17,668	17,498	170	2.63
Bluefin tuna	2	2	0	0.00
Skipjack tuna	13,513	13,236	277	2.01
Other tunas	0	0	0	0.00
Total	114,162	113,167	995	16.97
Other PMUS				
Mahimahi	419	397	22	0.06
Moonfish	139	89	50	0.02
Wahoo	4,685	4,577	108	0.70
Oilfish	4,210	178	4,032	0.63
Pomfret	460	90	370	0.07
Total	9,913	5,331	4,582	1.47
Total PMUS	130,248	119,335	10,913	19.36
Total Non-PMUS	2,730	127	2,603	0.41
Total All Species	132,978	119,462	13,516	19.77

Table 3. Annual summary report of fishing effort and catch statistics for U.S. longline vessels based in American Samoa as derived from NMFS Western Pacific Daily Longline Fishing Log records. Catch and effort statistics are based on date of longline haul. Data Source: PIFSC Information Management System, Longline Logbook Data.

Report Coverage

Time Period 1 January - 31 December, 2016
Set Types All Sets
Fishing Area Outside American Samoa EEZ

Number of vessels active	3
Number of trips (partial or completed)	4
Number of sets	21
Number of hooks set	62,767

Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught Per 1000 Hooks
PMUS				
Billfish PMUS				
Blue marlin	9	9	0	0.14
Striped marlin	1	1	0	0.02
Shortbill spearfish	9	7	2	0.14
Swordfish	0	0	0	0.00
Other billfishes	1	1	0	0.02
Total	20	18	2	0.32
Shark PMUS				
Blue shark	80	0	80	1.27
Mako sharks	0	0	0	0.00
Thresher sharks	3	0	3	0.05
Oceanic whitetip shark	11	0	11	0.18
Silky shark	0	0	0	0.00
Other Sharks	0	0	0	0.00
Total	94	0	94	1.50
Tuna PMUS				
Albacore	342	341	1	5.45
Bigeye tuna	53	53	0	0.84
Yellowfin tuna	128	128	0	2.04
Bluefin tuna	0	0	0	0.00
Skipjack tuna	63	63	0	1.00
Other tunas	0	0	0	0.00
Total	586	585	1	9.34
Other PMUS				
Mahimahi	13	13	0	0.21
Moonfish	2	0	2	0.03
Wahoo	42	42	0	0.67
Oilfish	63	0	63	1.00
Pomfret	1	1	0	0.02
Total	121	56	65	1.93
Total PMUS	821	659	162	13.08
Total Non-PMUS	0	0	0	0.00
Total All Species	821	659	162	13.08

Table 4. Annual summary report of fishing effort and catch statistics for U.S. longline vessels based in American Samoa as derived from NMFS Western Pacific Daily Longline Fishing Log records. Catch and effort statistics are based on date of longline haul. Data Source: PIFSC Information Management System, Longline Logbook Data.

Report Coverage

Time Period 1 January - 31 December, 2016
Set Types All Sets
Fishing Area Swains LVPA

Number of vessels active	8
Number of trips (partial or completed)	18
Number of sets	105
Number of hooks set	335,756

Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught Per 1000 Hooks
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PMUS

Billfish PMUS

Blue marlin	35	28	7	0.10
Striped marlin	3	2	1	0.01
Shortbill spearfish	19	3	16	0.06
Swordfish	7	5	2	0.02
Other billfishes	10	5	5	0.03
Total	74	43	31	0.22

Shark PMUS

Blue shark	88	0	88	0.26
Mako sharks	0	0	0	0.00
Thresher sharks	24	0	24	0.07
Oceanic whitetip shark	64	0	64	0.19
Silky shark	65	0	65	0.19
Other Sharks	17	0	17	0.05
Total	258	0	258	0.77

Tuna PMUS

Albacore	5,419	5,414	5	16.14
Bigeye tuna	304	303	1	0.91
Yellowfin tuna	1,011	1,009	2	3.01
Bluefin tuna	0	0	0	0.00
Skipjack tuna	1,015	1,015	0	3.02
Other tunas	0	0	0	0.00
Total	7,749	7,741	8	23.08

Other PMUS

Mahimahi	7	5	2	0.02
Moonfish	2	1	1	0.01
Wahoo	196	196	0	0.58
Oilfish	173	6	167	0.52
Pomfret	39	3	36	0.12
Total	417	211	206	1.24

Total PMUS	8,498	7,995	503	25.31
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Total Non-PMUS	421	2	419	1.25
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Total All Species	8,919	7,997	922	26.56
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Table 5. Annual summary report of fishing effort and catch statistics for U.S. longline vessels based in American Samoa as derived from NMFS Western Pacific Daily Longline Fishing Log records. Catch and effort statistics are based on date of longline haul. Data Source: PIFSC Information Management System, Longline Logbook Data.

Report Coverage

Time Period 1 January - 31 December, 2016
Set Types All Sets
Fishing Area Tutuila LVPA

Number of vessels active	16
Number of trips (partial or completed)	190
Number of sets	332
Number of hooks set	596,523

Pelagic Management Unit Species (PMUS)	Number Caught	Number Kept	Number Released	CPUE Number Caught Per 1000 Hooks
PMUS				
Billfish PMUS				
Blue marlin	25	23	2	0.04
Striped marlin	6	4	2	0.01
Shortbill spearfish	8	4	4	0.01
Swordfish	11	10	1	0.02
Other billfishes	12	6	6	0.02
Total	62	47	15	0.10
Shark PMUS				
Blue shark	234	1	233	0.39
Mako sharks	15	2	13	0.03
Thresher sharks	35	2	33	0.06
Oceanic whitetip shark	57	0	57	0.10
Silky shark	18	0	18	0.03
Other Sharks	11	0	11	0.02
Total	370	5	365	0.62
Tuna PMUS				
Albacore	5,623	5,584	39	9.43
Bigeye tuna	248	246	2	0.42
Yellowfin tuna	2,404	2,378	26	4.03
Bluefin tuna	0	0	0	0.00
Skipjack tuna	977	852	125	1.64
Other tunas	0	0	0	0.00
Total	9,252	9,060	192	15.51
Other PMUS				
Mahimahi	124	121	3	0.21
Moonfish	26	21	5	0.04
Wahoo	320	307	13	0.54
Oilfish	299	12	287	0.50
Pomfret	17	7	10	0.03
Total	786	468	318	1.32
Total PMUS	10,470	9,580	890	17.55
Total Non-PMUS	208	3	205	0.35
Total All Species	10,678	9,583	1,095	17.90

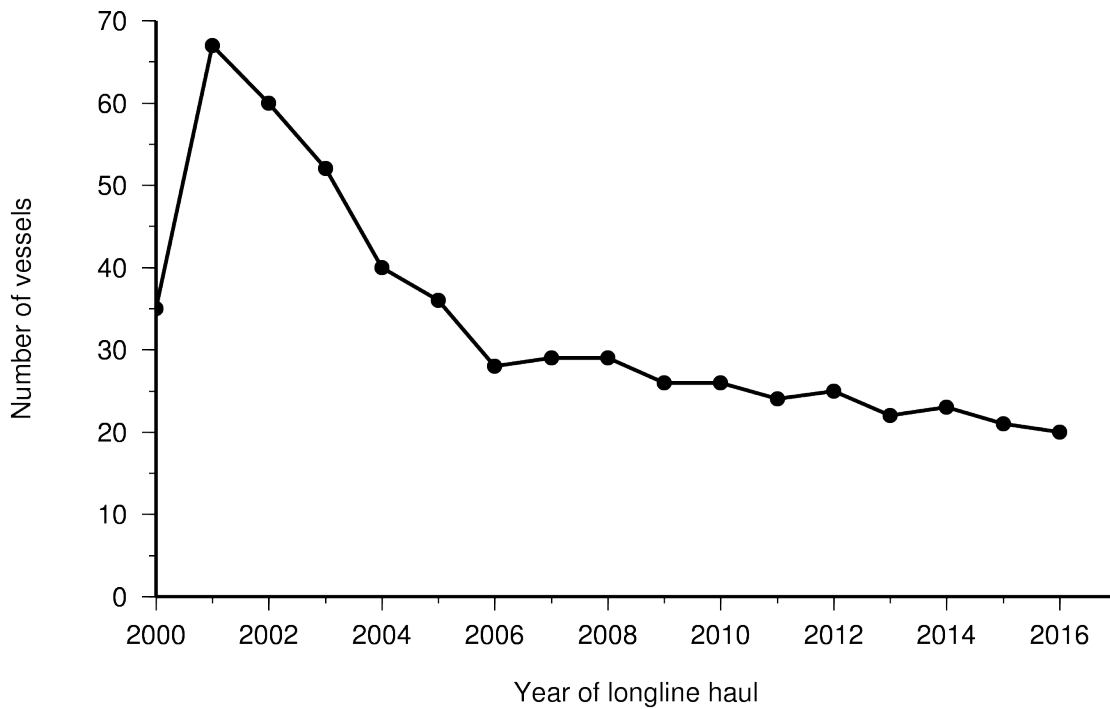


Figure 1. Number of active longline vessels based in American Samoa, by year, 2000-2016.

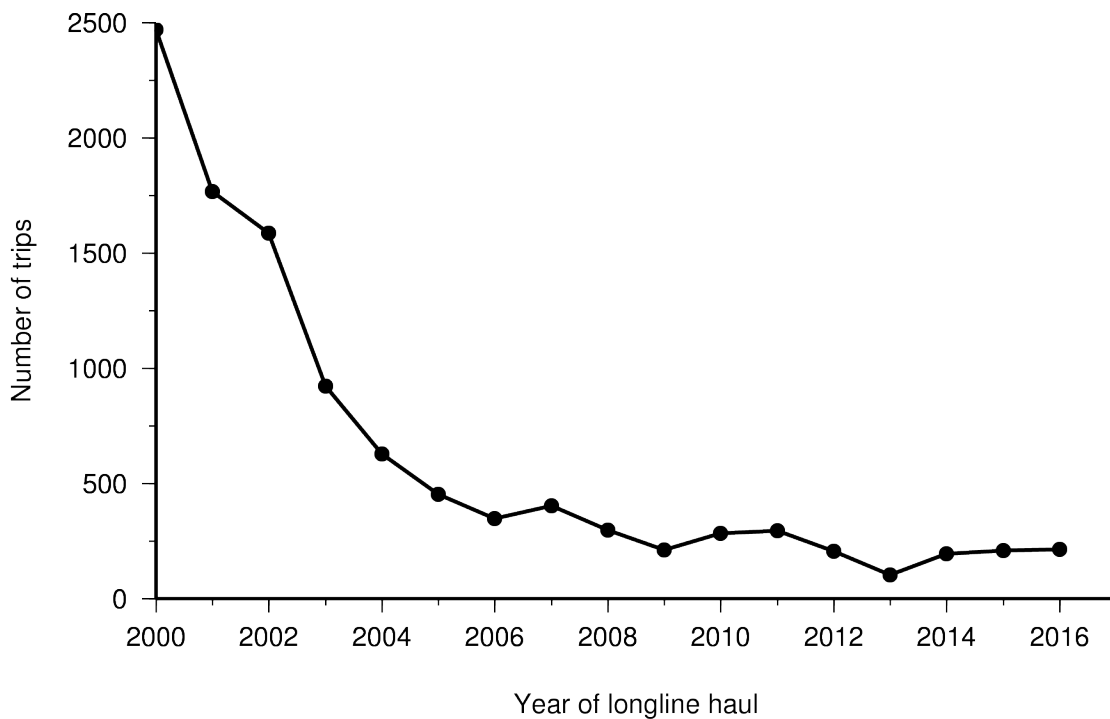


Figure 2. Number of fishing trips by longline vessels based in American Samoa, by year, 2000-2016.

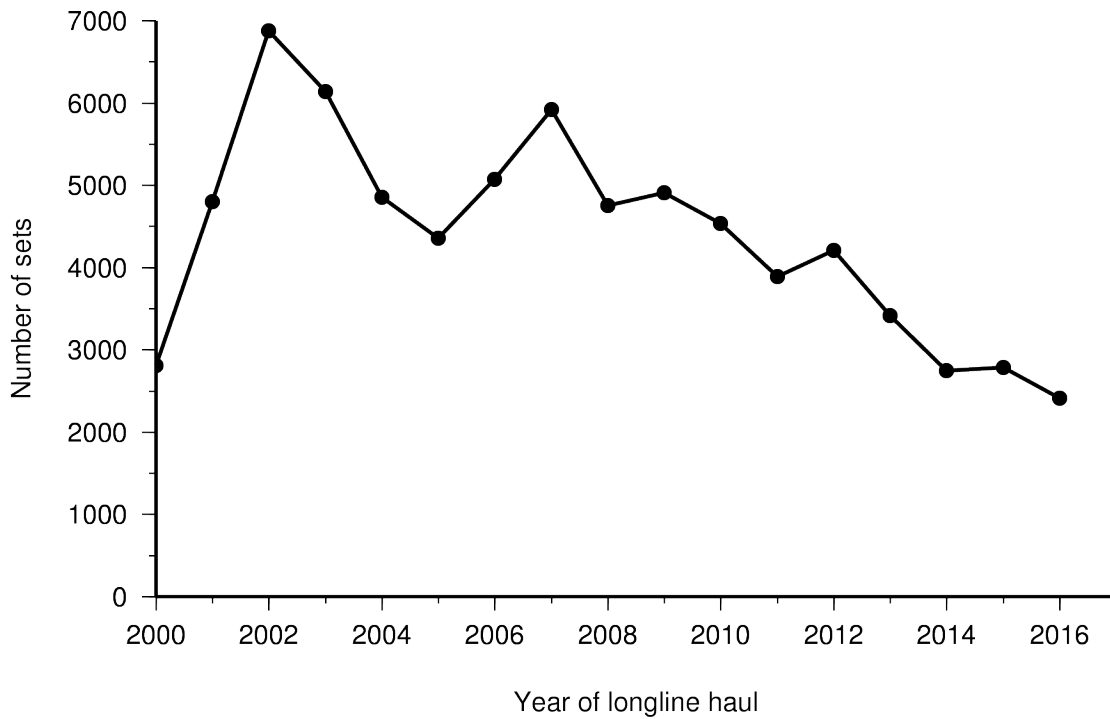


Figure 3. Number of fishing sets by longline vessels based in American Samoa, by year, 2000-2016.

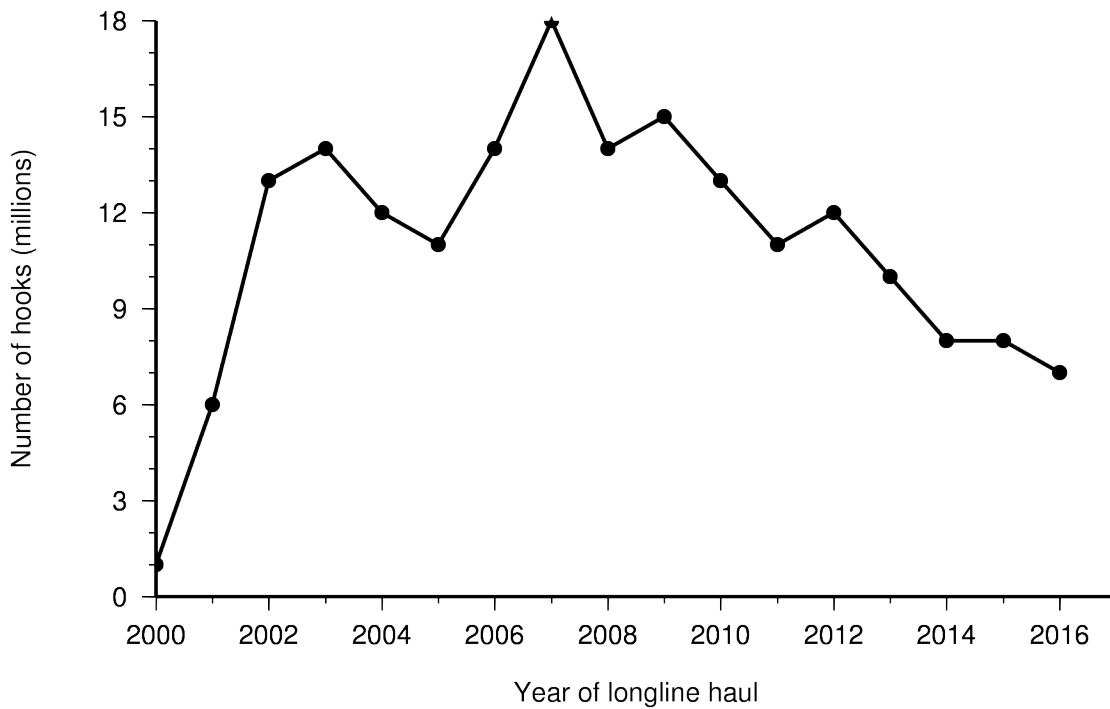


Figure 4. Number of hooks in millions, set by longline vessels based in American Samoa, by year, 2000-2016

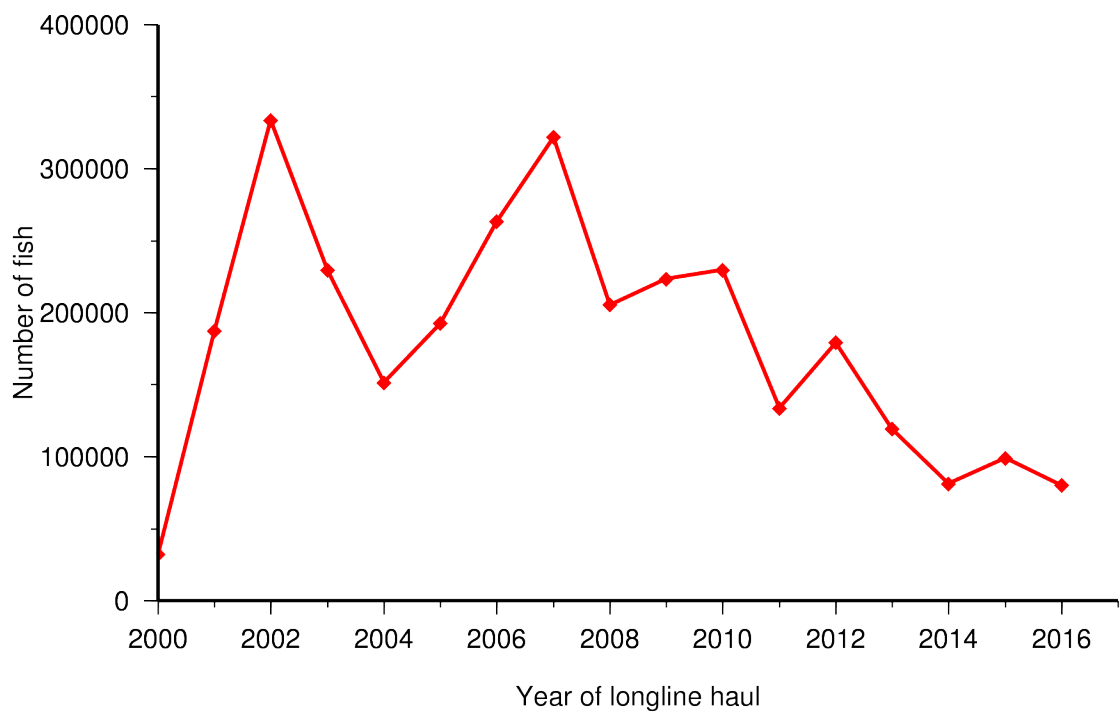


Figure 5. Annual catch (kept + released) of albacore by longline vessels based in American Samoa, 2000-2016.

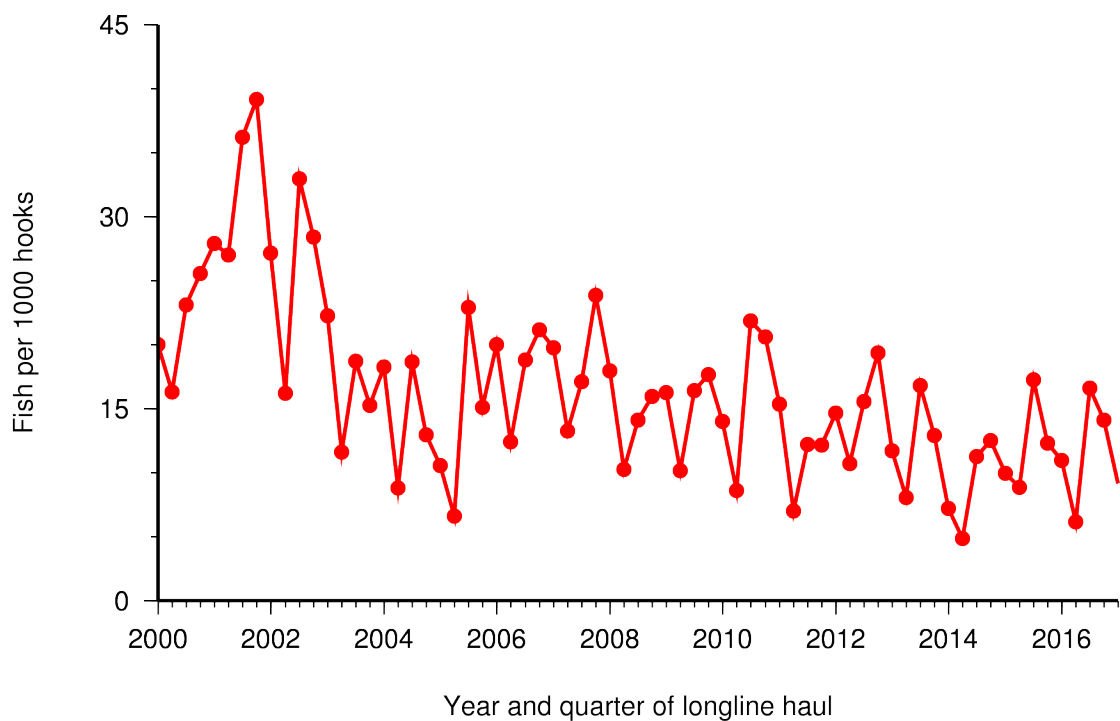


Figure 6. Quarterly CPUE of albacore (kept + released, per 1000 hooks) by longline vessels based in American Samoa, 2000-2016.

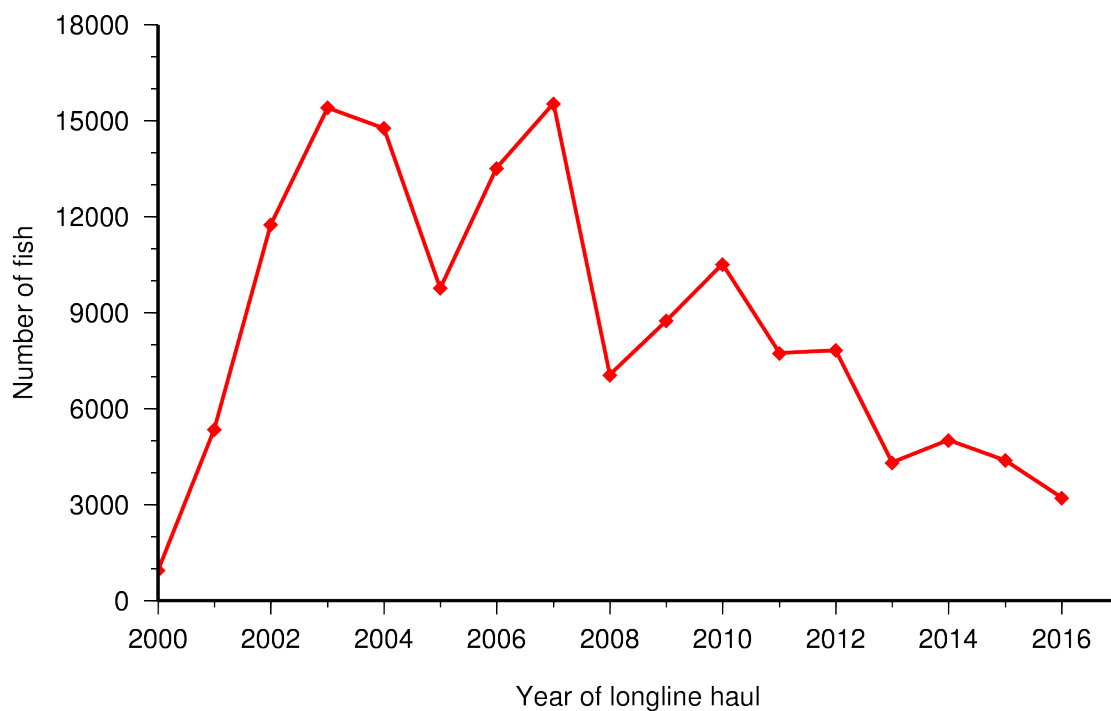


Figure 7. Annual catch (kept + released) of bigeye tuna by longline vessels based in American Samoa, 2000-2016.

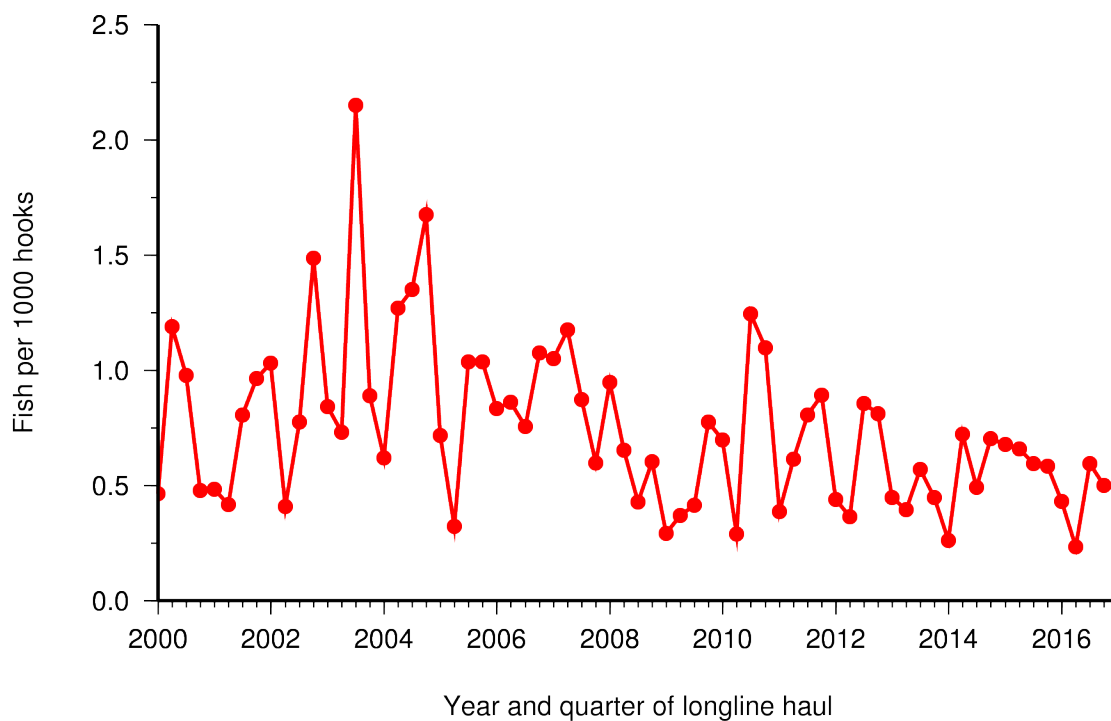


Figure 8. Quarterly CPUE of bigeye tuna (kept + released, per 1000 hooks) by longline vessels based in American Samoa, 2000-2016.

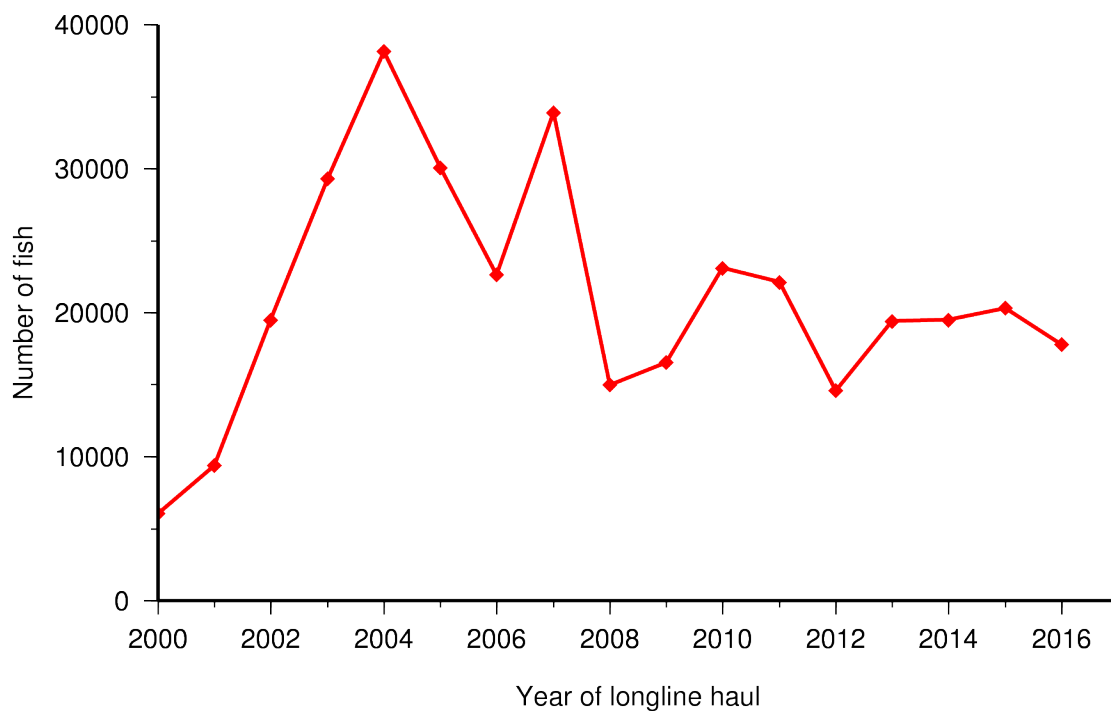


Figure 9. Annual catch (kept + released) of yellowfin tuna by longline vessels based in American Samoa, 2000-2016.

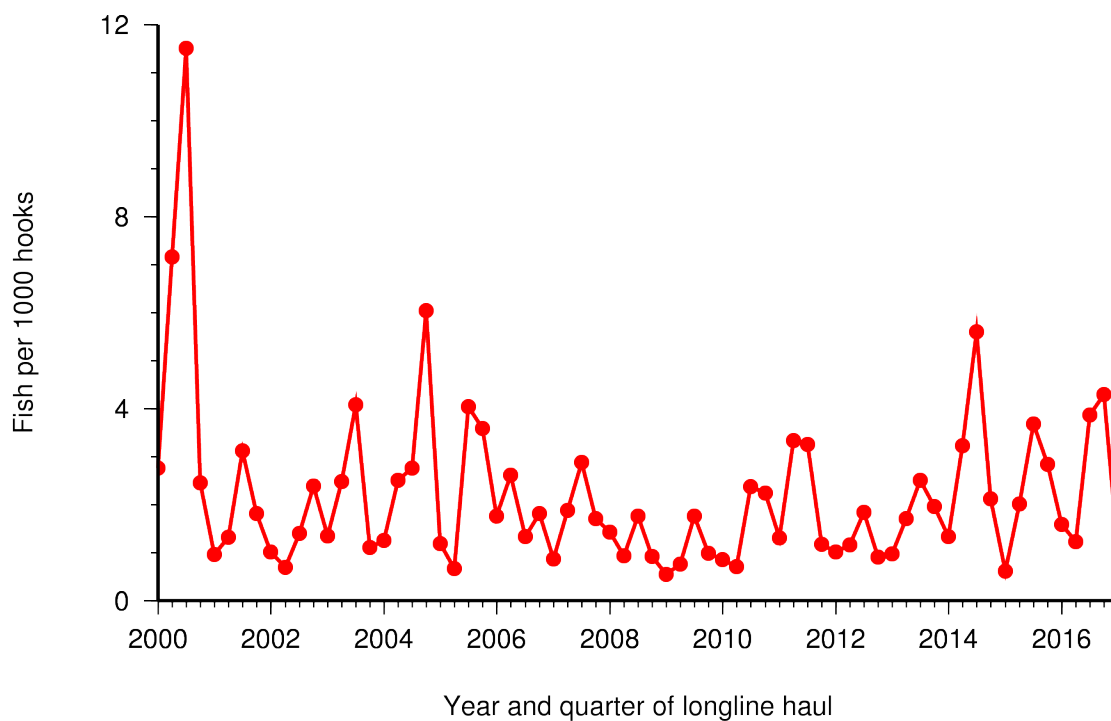


Figure 10. Quarterly CPUE of yellowfin tuna (kept + released, per 1000 hooks) by longline vessels based in American Samoa, 2000-2016.

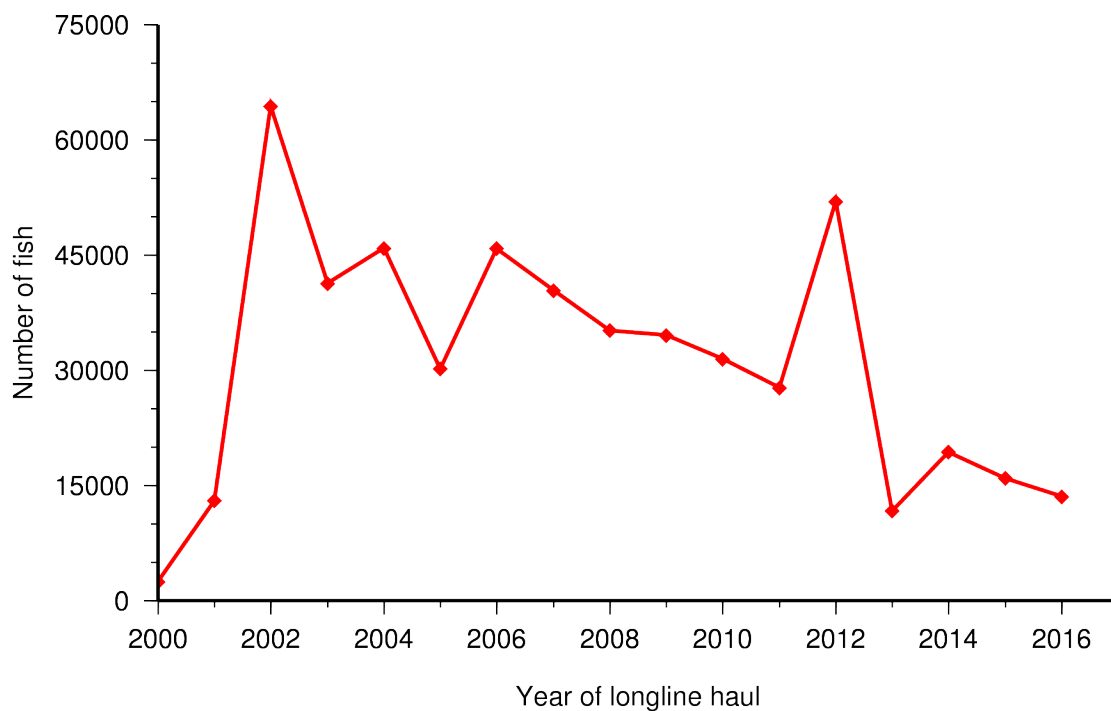


Figure 11. Annual catch (kept + released) of skipjack tuna by longline vessels based in American Samoa, 2000-2016.

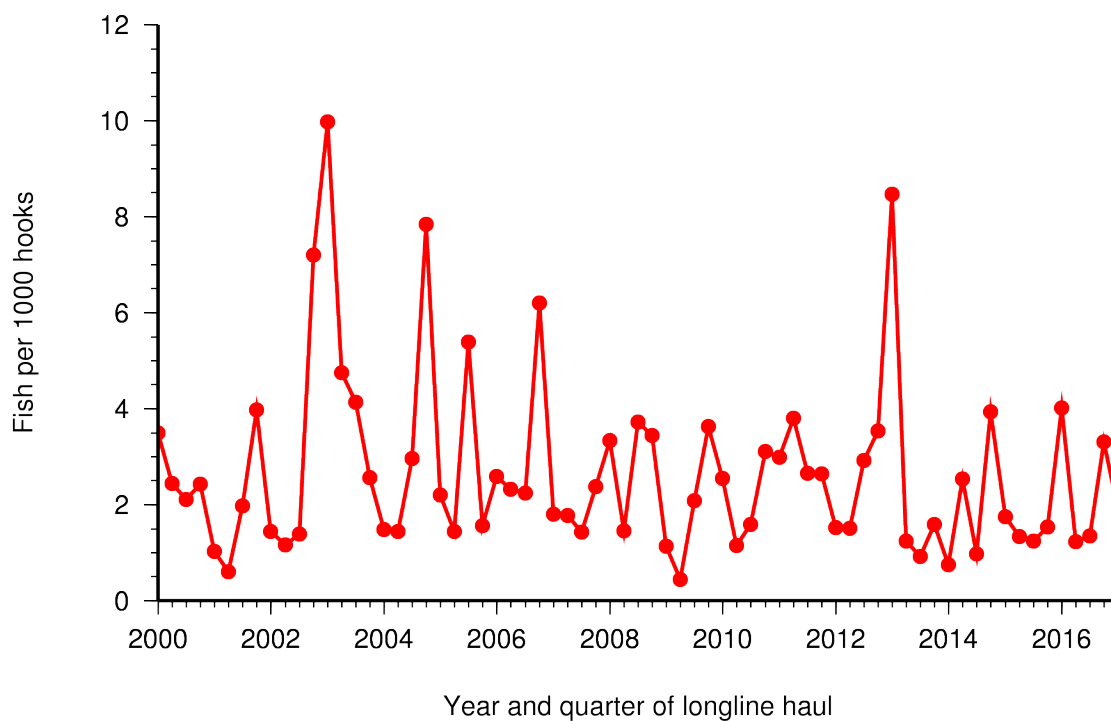


Figure 12. Quarterly CPUE of skipjack tuna (kept + released, per 1000 hooks) by longline vessels based in American Samoa, 2000-2016.

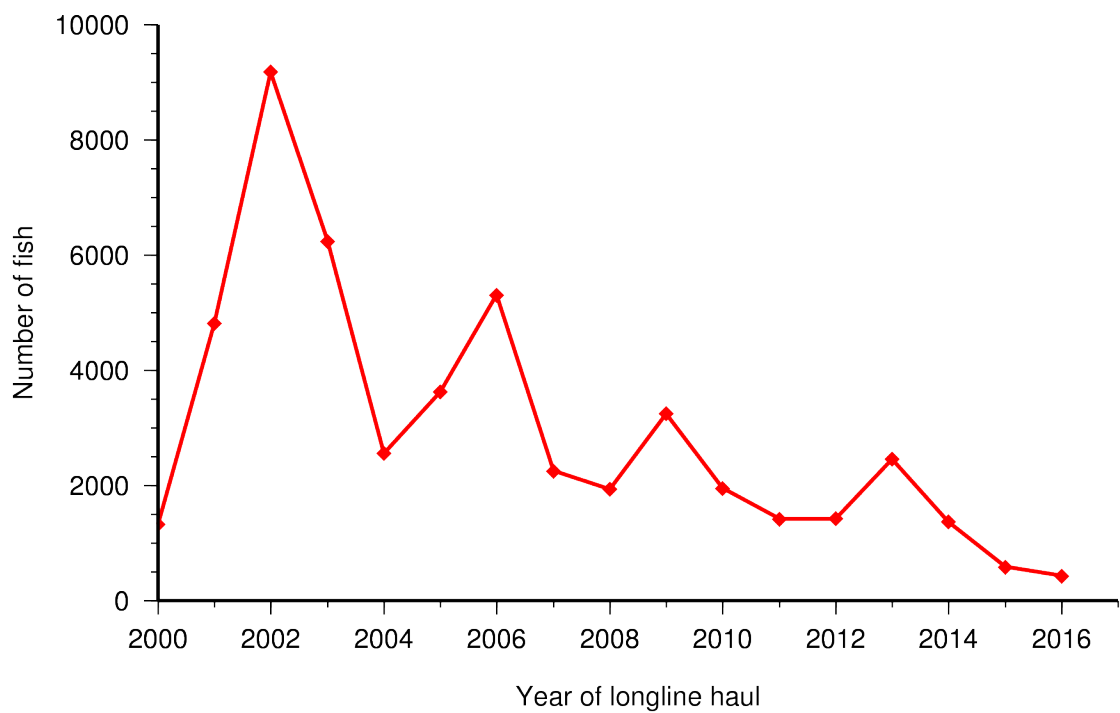


Figure 13. Annual catch (kept + released) of mahimahi by longline vessels based in American Samoa, 2000-2016.

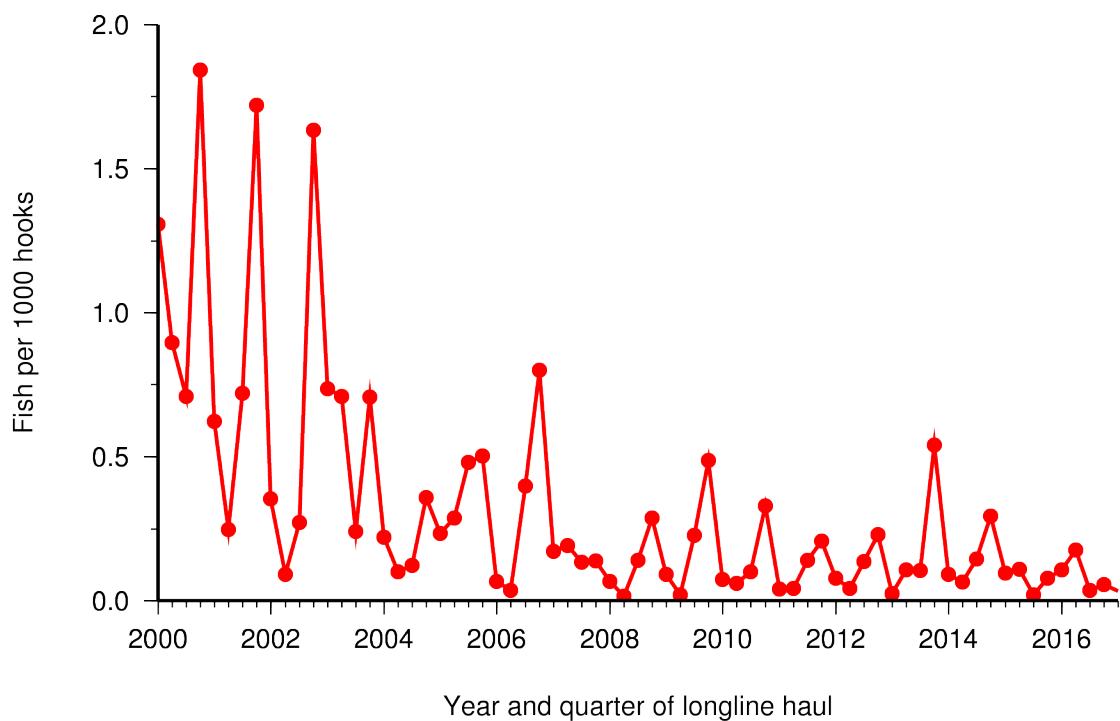


Figure 14. Quarterly CPUE of mahimahi (kept + released, per 1000 hooks) by longline vessels based in American Samoa, 2000-2016.

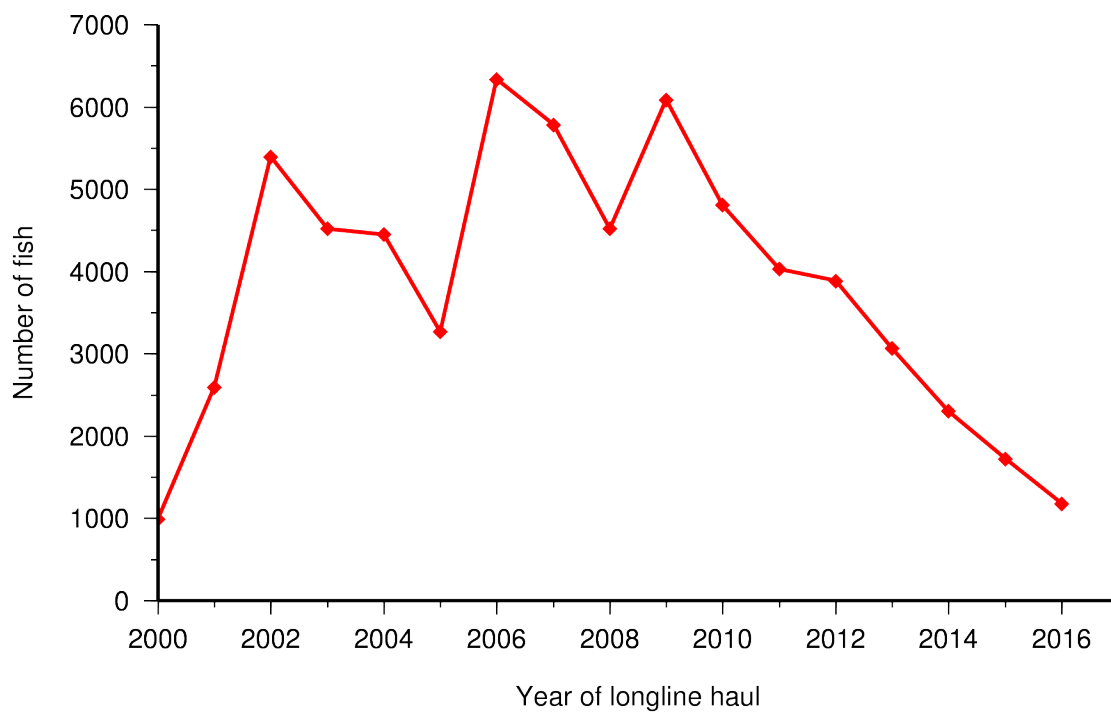


Figure 15. Annual catch (kept + released) of billfish by longline vessels based in American Samoa, 2000-2016.

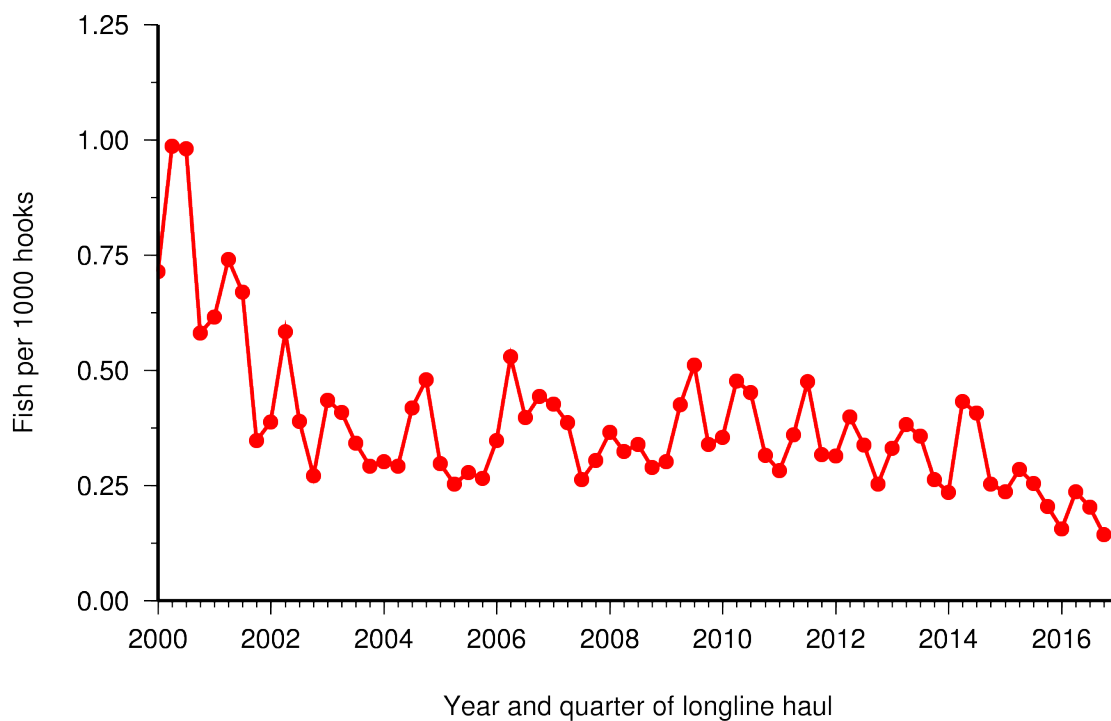


Figure 16. Quarterly CPUE of billfish (kept + released, per 1000 hooks) by longline vessels based in American Samoa, 2000-2016.

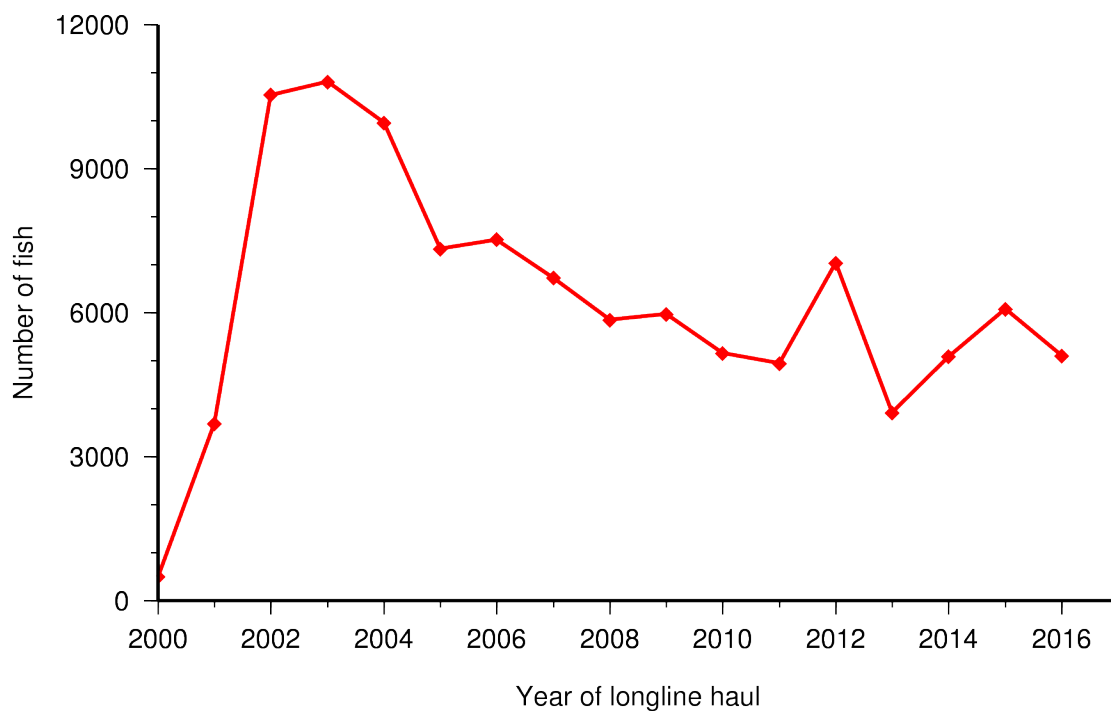


Figure 17. Annual catch (kept + released) of sharks caught by longline vessels based in American Samoa, 2000-2016.

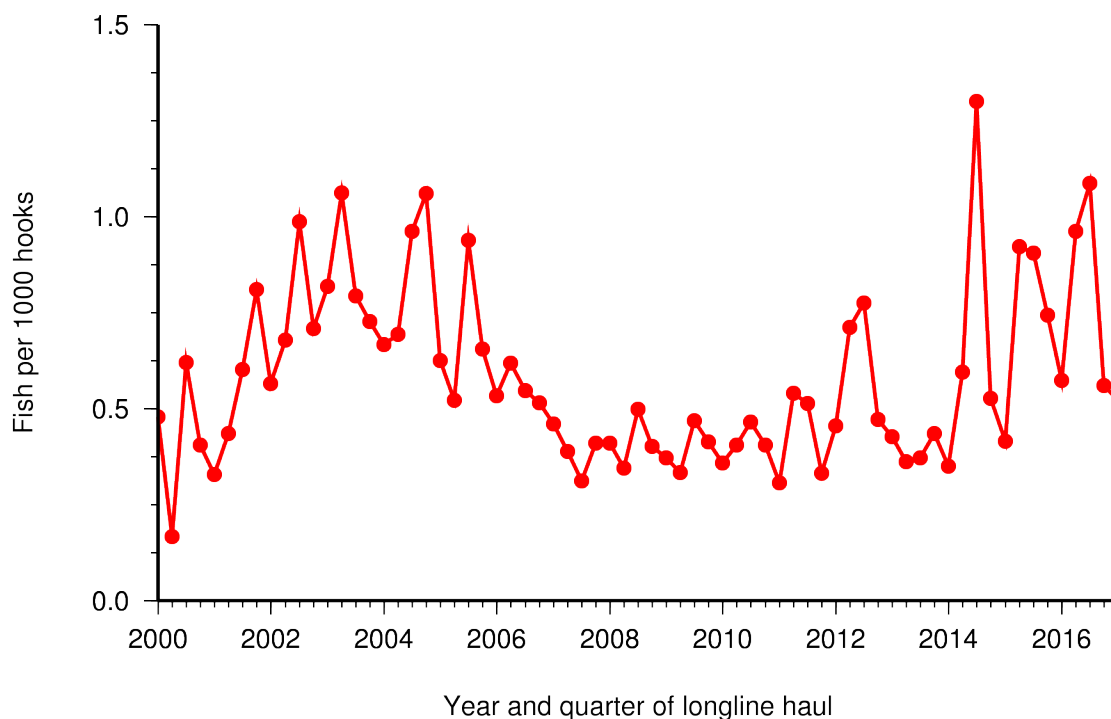


Figure 18. Quarterly CPUE of sharks caught (kept + released, per 1000 hooks) by longline vessels based in American Samoa, 2000-2016.

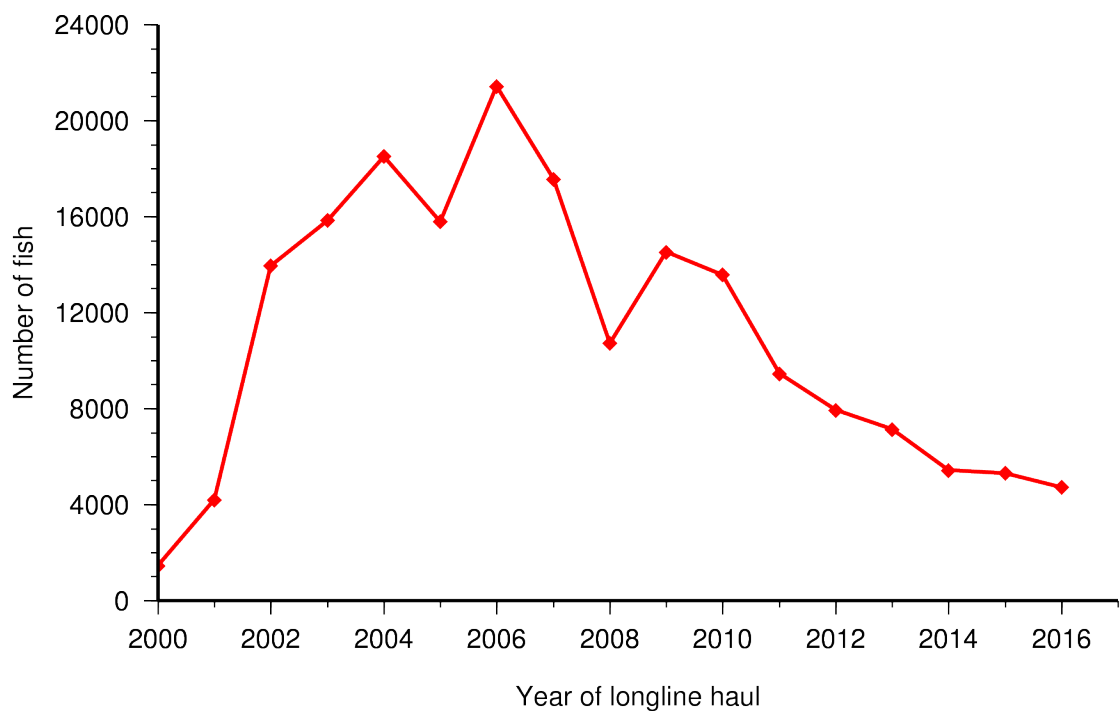


Figure 19. Annual catch (kept + released) of wahoo by longline vessels based in American Samoa, 2000-2016.

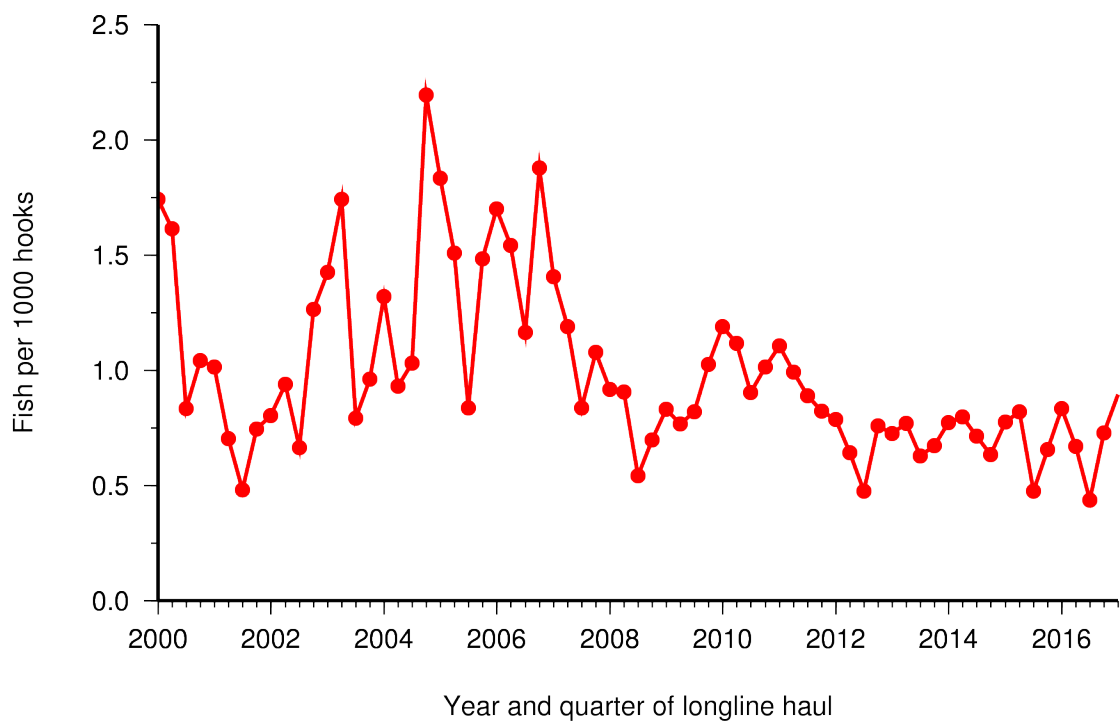


Figure 20. Quarterly CPUE of wahoo (kept + released, per 1000 hooks) by longline vessels based in American Samoa, 2000-2016.